THE LONGITUDINAL SYSTEM ANALYSIS

FY 2019 HMIS PROGRAMMING SPECIFICATIONS

VERSION 1.1 ● OCTOBER 2020

Table of Contents

Revision History

Version	Date	Revisions
1.0	7/14/2020	Revisions to entire document to apply FY2019 edits
1.1	TBD	Throughout – correction of typographical errors, redundancies, graphics, and listed source and target relevant data for each section Section 1.2 – add link to GitHub repository Sections 2.10 and 8.1-8.22 – clarify that records in LSACalculated are only generated when **Value** > 0. Section 3.3 – note that reporting procedures must exclude data which is inconsistent with HMIS Data Standards and/or HMIS CSV specifications If a project has an operating end date, it must be greater than the operating start date in order to include in LSA reporting. Bednights >= a project's operating end date are not relevant. Sections 3.4-3.5 – if a household member's entry date is prior to that of the HoH, use the HoH value as the effective entry date for the household member (required to resolve inconsistency with Section 3.3) Section 3.5 – if age is unknown for a given client on any enrollment, it is considered unknown for all. Section 4.1 - If a project has an operating end date, it must be greater than the operating start date in order to include the project record in the LSA upload. Section 4.1-4.5 – clarify that notes in Column Description for PDDE files are related to HDX 2.0 validation Section 5.2 – specify that active enrollments should be identified in tlsa_Enrollment with **Active** = 1 Section 5.6 – delete irrelevant rows from Relevant Data section; include **HoHAdult** criteria in logic Section 5.7 –– Add CH to list of relevant data; Exit date from RRH cannot be counted as a CH day if it is equal to the move-in date. Section 5.8 – correct and re-group criteria for counting CH days based on 3.917 Section 5.10 – correction of typos/grouping in criteria for identifying clients who do not meet time criteria for CH and are missing relevant 3.917 information; resolve conflict between table of valid combinations of **CHTime**/**CHTimeStatus** values and business logic (add valid 365/99 combination to table). Section 6.9 – correct > to >= in criteria re: **ExitDate** and **FirstEntry** Section 6.11 – count dates housed in PSH/RRH for active enrollments only (specify tlsa_HHID.**Active** = 1) Section 6.13 – correct criteria for **sysStatus** Section 6.17 – implement AHAR change request to base AHAR status on any recorded bednights in report period for each given project group, including when all bednights in a given project group overlap with another. Section 7.5 – align criteria for system engagement status in LSAExit with LSAHousehold; add criteria to disambiguate when the most recent exit date is shared by more than one enrollment. Section 7.6 – Use **CohortEnd** vs. ReportEnd for LSAExit system engagement status Sections 8.1-8.18 – Explicitly state relationships between **HHType** in LSACalculated with LSAHousehold/LSAExit.**HHType** and with **Active/Exit1/Exit2HHType** columns in tlsa_HHID. Section 8.4 – ReportRow #14 averages only rows where **RRHStatus** > 2 Section 8.5 – add ReportRows 63 and 64 for average days to return by last project type / new LSAExit.ExitFrom values 7 and 8 Section 8.6 – Delete vestigial last three rows in list of populations

Version	Date	Revisions
		Sections 8.6 and 8.7 – Clarify relationship between **SystemPath** value in LSAExit and **SystemPath** value in LSACalculated. Sections 8.9 and 8.11 – Include PopID 6 (CH) Sections 8.9-8.18 – per section 3.3, consider RRH exit date a bednight if it is the same as the move-in date. Section 8.13 – Add HHAdultAge criteria for populations 145-148; clarify that people should be counted for one age only (the maximum age) Section 8.14 – **DisabilityStatus** = 1 (not 2) for PopIDs 111 and 143. Clarify that counts of parenting children/youth are limited to HoH, correct criteria for PopIDs 113-144 Sections 8.14-8.18 – clarify that counts may always be included but only required when **LSAScope** = 1 and report period is October 1-September 30. Section 8.21 – Clarifications related to DQ counts of households with no EnrollmentCoC Section 8.22 – DQ report rows 60-62 are an exception to the general requirement that **ProjectID**s in LSACalculated must match Project.csv. Section 9.1 – *ExitDate* < **CohortStart** --> NULL value for **Status1** Include project type criteria Correct/streamline *DOBDataQuality* criteria for **Status1** and **Status3**. Include '123456789' in list of commonly-used invalid SSNs Note that **NoCoC** is an exception to the general statement that DQ reporting is for enrollments associated with ReportCoC. Section 9.2 – Clarification for logic associated with **NoCoC** and *ExitDate* criteria for **Destination1**; add missing MoveInDate1/3 section.

1. Introduction

1.1. Background: Annual Homeless Assessment Report and the Longitudinal System Analysis

Every year, the U.S. Department of Housing and Urban Development (HUD) submits an Annual Homeless Assessment Report (AHAR) to the United States Congress. The AHAR is a national-level report that provides information about homeless service providers, people and households experiencing homelessness, and various characteristics of that population. It informs strategic planning for federal, state, and local initiatives designed to prevent and end homelessness.

Nationwide, HUD has tasked Continuums of Care (CoCs) with coordinating homeless services in specific geographic areas. The AHAR is based on data provided annually by these CoCs in the form of three separate aggregate data submissions. US Census and other data are used for contextual analysis.

HUD's *Notice for Housing Inventory Count (HIC) and Point-in-Time (PIT) Data Collection for Continuum of Care (CoC) Program and the Emergency Solutions Grants (ESG) Program* defines the requirements for the first two components of continuum-level data used in the AHAR:

- **Housing Inventory Counts** (HIC) are data related to the capacity and utilization of residential projects dedicated to serving people experiencing homelessness; and
- **Point-in-Time Counts** (PIT) provide counts of sheltered and unsheltered people who are experiencing homelessness on a single night, usually on a night in the last 10 days of January.

The third component of data provided by CoCs is the report defined by this document: the **Longitudinal System Analysis** (LSA). For people and households served by the CoC during the fiscal year, the LSA includes:

- Demographic characteristics like age, race, gender, and veteran status;
- Length of time homeless and patterns of system use;
- Information specific to populations whose needs and/or eligibility for services may differ from the broader homeless population, such as veterans, people and households experiencing chronic homelessness, and others; and
- Housing outcomes for those who exit the homeless services system.

The LSA also incorporates follow-up reporting on households and populations who exited the system in three discrete periods: two years prior to the report period, one year prior to the report period, and the first six months of the report period. This includes:

- Patterns of system use prior to exit;
- Destination types; and,
- For those who were served again later by continuum projects, lengths of time between exit and re-engagement or returns to homelessness.

1.2. About This Document

Intended Audience

This document is intended for software and database developers who produce HMIS reporting and are familiar with relational database concepts, Structured Query Language (SQL), as well as other HMIS technical documentation, particularly the HMIS Data Dictionary and the HMIS CSV Format. The document may also be useful to expert-level HMIS system administrators interested in further understanding LSA logic, how HDX 2.0 uses uploaded data to produce report output, or in using the LSA files exported from HMIS to develop custom local reports.

Purpose and Scope

The primary purpose of this document is to define LSA business logic and programming specifications for:

- Selection of project descriptor data for export
- Identification of client cohorts, household types, and special populations included in the LSA based on HMIS data
- Grouping clients and households into reporting categories
- Producing and populating LSA CSV files
- Validating LSA CSV files

Structure and Content

Section 1: Introduction (this section) outlines general concepts related to the LSA and this document.

Section 2: LSA Data Universe describes LSA report parameters, the HMIS data elements that are referenced in the business logic, and the four cohorts of clients that are included in the analysis.

Section 3: LSA CSV Upload Files describes each of the CSV files that are included in the upload. There are five CSV files specific to the LSA:

- LSAReport.csv
- LSAHousehold.csv
- LSAPerson.csv
- LSAExit.csv
- LSACalculated.csv

The LSA upload also includes five CSV files of Project Descriptor Data Elements (PDDEs) defined in the HMIS CSV Specifications:

- Organization.csv
- Project.csv
- Funder.csv
- ProjectCoC.csv
- Inventory.csv

Sections 4 through 10: HMIS Business Logic details business logic associated with constructing LSA report output from HMIS data. There is an inherent order of operations to some aspects of the process. For example, household members' ages must be calculated in order to determine household types for individual HMIS *HouseholdIDs*. Household types are required to identify distinct combinations of head of household and household type, which is the basis for counting individual households throughout the LSA.

In this document, LSA business logic is described as a series of discrete steps, each with a specific result. Results are cumulative; the 'output' of earlier steps serves as input for later steps. The sequence of steps is consistent with the order of operations, but in practice, many could be combined and executed simultaneously. They are separate here to clarify the business logic associated with individual columns.

To avoid repetition, simplify descriptions, and emphasize various aspects of the logic, several of these steps specify the creation of intermediate data constructs (tables) with column names that function as variables in later steps. There is no requirement to use the process or the constructs described here as long as output is consistent with the logic described here.

A companion document titled *LSA Programming Specifications: Sample Code* may help clarify and illustrate the business logic described in this document. It was written during the development of these specifications and is being made available as a reference. There is no requirement to use the code.

Companion Documents

The following companion documents or links are available for vendors in the HUB. Most materials will be publicly posted to the HUD Exchange after initial vendor feedback via weekly office hours:

- Specifications with tracked changes from FY2018
- Specifications with annotations describing the changes from FY2018
- LSA Dictionary
- Test Kit
- Sample Code (stored on GitHub) (https://github.com/HMIS/LSASampleCode/)

External References

This document is comprehensive with respect to the business logic for the LSA upload, but additional references are indicated below. The short-hand terms used to refer to each document are in parentheses following the formal names and are hyperlinked to the documents online.

FY 2020 HMIS Data Standards: Data Dictionary (Dictionary) – The Dictionary defines federal data collection requirements for HMIS applications; the version referenced has an effective date of October 1, 2019.

FY 2020 HMIS Data Standards Logical Model (HMIS Logical Model) – The HMIS Logical Model illustrates the relationships between HMIS data elements. Descriptions of business logic in this document are based on the assumption that those relationships are also present in HMIS applications. A complete list of the HMIS data elements and fields relevant to the LSA upload is included in Section 2, LSA Data Universe.

FY 2020 HMIS CSV Format Specifications v1.7(HMIS CSV) – Descriptions of LSA business logic reference HMIS fields using the column names of the HMIS CSV.

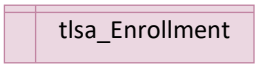
Notice for Housing Inventory Count (HIC) and Point-in-Time (PIT) Data Collection for Continuum of Care (CoC) Program and the Emergency Solutions Grants (ESG) Program (HIC/PIT Notice)

Style Notes

Throughout this document, descriptions of business logic reference various types of data – HMIS fields, report parameters, derived variables, intermediate data constructs, etc. – and many have similar (or identical) names.

To help clarify, many sections include simple graphics to illustrate the flow of the process described, and formatting the text of variable/field/column names is used to indicate their context. The conventions used include:

Example	Description
ReportCoC	Report parameters are underlined.
	HMIS data structures are depicted with the flowchart symbol for 'database.'
hmis_Project	HMIS data structures / raw HMIS data are referenced using HMIS CSV file names with an hmis_ prefix. This assumes the presence/availability of all HMIS data from 10/1/2012 to ReportEnd.

ProjectID	References to HMIS fields / raw HMIS data use HMIS CSV column names and are italicized. hmis_Project.*ProjectID* potentially refers to any project record in the HMIS where the operating end date is >= 10/1/2012.
	CSV files included in the LSA upload are represented by the flowchart symbol for 'document.'
lsa_Project	The lsa_ prefix indicates a CSV file included in the LSA upload and that the data therein is the result of a process / business logic defined by this document.
ProjectID	References to variables and/or data created or transformed by the processes described in this document – e.g., columns in LSA CSV files or intermediate data constructs – are in bold. lsa_Project.**ProjectID** refers only to project records that meet the criteria for inclusion in the uploaded Project.csv file.
	Intermediate data constructs are represented by the flowchart symbol for 'internal storage.'
	The flowchart symbol for 'manual input' appears infrequently; it is used to represent user-entered and/or hard-coded values.

1.3. Definitions/Acronyms

The definitions here are intended to serve as a general reference and are not comprehensive with respect to business logic, which is detailed in later sections.

AO – Adult-only household; a household in which all household members have valid dates of birth and are age 18 or older.

AC – Adult and child household; a household in which at least one household member is age 18 or older and at least one household member is age 17 or younger and both have valid dates of birth; may include household members without valid dates of birth.

Between – When used to describe business logic, *between* includes the values used in the description. For example, the report start date and the report end date are both "between ReportStart and ReportEnd."

CO – Child-only household; a household in which all household members have valid dates of birth and are age 17 or younger.

Cohort – A group of clients who meet the criteria for inclusion in reporting in a specific timeframe. See also "Exit Cohorts."

Cohort period – The period of time that defines a cohort (e.g. "the first six months of the report period.")

Continuous (in reference to a period of homelessness or enrollment) – A period in which relevant system use for a given client is documented in HMIS and is uninterrupted by any period of seven or more contiguous days of a permanently housed situation, no documented system use, or a combination of those.

Enrollment – A period of time in which a client receives services from a given project, beginning with the *Project Start Date* recorded in HMIS and ending on the *Project Exit Date*.

ES – Emergency shelter projects. ES clients are considered to be experiencing homelessness while enrolled; any date between ES project entry and the day prior to exit is included in counts of days in ES/SH or on the street for

purposes of determining chronic homelessness *as long as there is no conflicting data that identifies the client as enrolled in TH or housed in RRH/PSH*.

EST or **ES/SH/TH** – Emergency shelter, safe haven, and/or transitional housing projects; i.e., residential project types in which all clients are homeless while enrolled. Demographics for clients served in these three project types are reported in the combined ES/SH/TH project group.

Exit Cohorts – Groups of households who exited from continuum projects and have no record of relevant system use in HMIS during the following 14 days. There are three exit cohort periods – and thus three exit cohorts – included in the LSA.

HIC – Housing Inventory Count; an annual continuum-level report to HUD listing continuum ES, SH, TH, RRH, PSH, and OPH projects and associated bed and unit inventory dedicated to serving people experiencing homelessness.

HDX – Homelessness Data Exchange; a HUD website that accepts and stores CoC-level reports, including the HIC, the PIT, the SPM report, and the LSA upload. HIC, PIT, and SPM reports are collected and stored in the HDX 1.0 and the LSA is collected and stored in the HDX 2.0.

Informational value – For HMIS data elements, a response category defined by the HMIS Data Standards that provides the information collected in a given field, e.g. 'Yes' and 'No' are both informational values for *3.07 Veteran Status*. 'Client doesn't know (8), 'Client refused' (9), and 'Data not collected (99) are not informational; they are explanations for missing data. Response categories 'Other' (17) and 'No exit interview completed' (30) for *3.12 Destination* are also not informational.

LOTH – Length of time homeless. LOTH reporting includes counts of households grouped by total number of days in ES, SH, and TH projects, in RRH and PSH projects prior to moving into housing, and in ES/SH or on the street prior to project entry as identified in *3.917 Living Situation*. Although it is not, by definition, 'homeless,' time housed in RRH is also included in LOTH output.

OPH – Permanent housing project types other than PSH or RRH; specifically, projects typed in HMIS as *PH – Housing Only* (9) or *PH – Housing with Services (no disability required for entry)* (10). With the exception of project descriptor data, data associated with OPH projects is specifically excluded from the LSA.

PIT Count – Point in Time Count; a continuum-level report to HUD, required at least every two years, that reports on the total number of people experiencing sheltered and unsheltered homelessness in the geographic area of the continuum on a single night, usually on a night in the last 10 calendar days of January.

Population – As used in this document, a group of people in households with one or more members who have specific characteristics that may indicate that the households have needs and/or eligibility for services that differ from the broader homeless population; for example, households fleeing domestic violence or unaccompanied children. The LSA upload includes population-specific output.

Project group – ES, SH, and TH (combined), RRH (only), and PSH (only). Demographics reporting for the active cohort is produced separately for each of these three project groups.

PSH – Permanent supportive housing for formerly homeless people.

- PSH clients who are homeless at project entry based on *3.917 Living Situation* are considered to be experiencing homelessness until a documented *3.20 Housing Move-In Date* or exit, whichever comes first.
- For clients who were in ES/SH or on the street at project entry, all time between *Approximate Date Started* and move-in is counted in determining chronic homelessness.
- In general, a client may not be counted as experiencing homeless on any date between PSH move-in and the day prior to exit, regardless of other conflicting enrollment data. The only exception to this is for stays of less than seven days, and only if the dates fall between two dates less than seven days apart on which the client is otherwise documented as being on the street or in ES/SH.

Report period – The period of time between the report start date and report end date report parameters.

RRH – Rapid Re-Housing projects.

- RRH clients who are homeless at project entry based on *3.917 Living Situation* are considered to be experiencing homelessness until a documented *3.20 Housing Move-In Date* or exit, whichever comes first.
- For clients who were in ES/SH or on the street at project entry, all time between *Approximate Date Started* and move-in is counted in determining chronic homelessness.
- A client may not be counted as experiencing homeless on any date between RRH move-in and the day prior to exit, regardless of other conflicting enrollment data. The only exception to this is for stays of less than seven days, and only if the dates fall between two dates less than seven days apart on which the client is otherwise documented as being on the street or in ES/SH.

SH – Safe Haven projects. All SH clients are considered to be experiencing homelessness while enrolled; any date between SH project entry and the day prior to exit is included in counts of days in ES/SH or on the street for purposes of determining chronic homelessness *as long as there is no conflicting enrollment data that identifies the client as enrolled in TH or housed in RRH/PSH*.

SPM – HUD's System Performance Measures report, a CoC-level report uploaded to or manually entered into the HDX.

System exit – An exit from a continuum ES, SH, TH, RRH, or PSH project followed by a period of at least 14 days in which the household is not active in any other continuum ES, SH, TH, RRH, or PSH projects.

System path – The distinct combination of project types in which a household was enrolled during a continuous period of system use that overlaps with the report/cohort period, including enrollments prior to the start of the report/cohort period.

TH – Transitional housing for homeless people. All TH clients are considered to be experiencing homelessness while enrolled; however, no date between TH project entry and the day prior to exit may be included in counts of days in ES/SH or on the street for purposes of determining chronic homelessness, regardless of other conflicting enrollment data. The only exception to this is for stays of less than seven days, and only if the dates fall between two dates less than seven days apart on which the client is otherwise documented as being on the street or in ES/SH.

UN – Unknown household type; includes at least one member without a valid date of birth and does not include both an adult and a child.

2. HDX 2.0 Upload

The Longitudinal Systems Analysis (LSA) upload is a .zip file containing a total of 10 CSV files generated by the HMIS application. Files are listed below with a brief description and links to the sections of this document that define the business logic for the file.

A separate data dictionary with a complete list of the columns and values associated with each of these files is available in the LSA tool kit as an Excel workbook.

2.1. Project.csv

The structure of Project is defined by the HMIS CSV; it contains HMIS Data Element *2.02 Project Information* for continuum ES, SH, TH, RRH, PSH, and/or OPH projects active during the report period. It is referenced as lsa_Project in this document.

See section 4.1Get Project.csv Records / lsa_Project.

2.2. Organization.csv

The structure of Organization is defined by the HMIS CSV; it contains HMIS data element *2.01 Organization Information* for each project included in Project.csv. It is referenced as lsa_Organization in this document

See section 4.2 Get Organization.csv Records / lsa_Organization.

2.3. Funder.csv

The structure of Funder is defined by the HMIS CSV; it contains HMIS data element *2.06 Funding Sources* records active during the report period for each project included in Project.csv.

See section 4.3 Get Funder.csv Records / lsa_Funder.

2.4. ProjectCoC.csv

The structure of ProjectCoC is defined by the HMIS CSV; it contains HMIS data element *2.03 Continuum of Care Code* records associated with ReportCoC for each project included in Project.csv.

See section 4.4 Get ProjectCoC.csv Records / lsa_ProjectCoC .

2.5. Inventory.csv

The structure of Inventory is defined by the HMIS CSV; it contains HMIS data element *2.07 Bed and Unit Inventory Information* records active during the report period for each project included in Project.csv.

See section 4.5 Get Inventory.csv Records / lsa_Inventory.

2.6. LSAReport.csv

LSAReport contains 61 columns, including report metadata, report parameters, and HMIS data quality reporting. The HDX 2.0 uses these data to process the upload file and to assess the reliability of the data.

See:

- Section 3.1 Report Parameters and Metadata
- Section 9. HMIS Business Logic: LSAReport Data Quality and ReportDate

2.7. LSAPerson.csv

LSAPerson contains 55 columns and includes reporting on people active during the report period. Columns include the following types of data:

- Identifiers for project types, household types, and populations in which clients were served.
- Age categories for all clients; age is the only demographic reported for children who are not heads of household.
- Demographics reported for adults and heads of household, including gender, race, ethnicity, veteran status, disability status, and domestic violence status.

Rows represent specific combinations of these data points. Each active client is counted in one row; the sum of **RowTotal** values in the file is equal to the total number of active clients in the report period.

It is critical that all values in this column are integers > 0. The largest possible number of rows – when each row includes a count of one or more people represented by the distinct combination of column values – is limited to the number of active clients. However, there are billions of possible combinations of column values, and including rows that that do not represent any clients would result in files of unmanageable size.

See Section 5: HMIS Business Logic: LSAPerson.

2.8. LSAHousehold.csv

LSAHousehold contains 66 columns and includes reporting on households active during the report period.Columns include the following types of data:

- Identifiers for project types and populations in which each household was served.
- Demographics including living situation, destination, household composition, project geography, and system engagement.
- Lengths of time homeless (LOTH) and enrolled in RRH/PSH during the report period and any continuous episode of homelessness prior to ReportStart that overlaps with the report period.

Rows represent specific combinations of these data points. Each active household is counted in one row; the sum of **RowTotal** values in the file is equal to the total number of households active in the report period.

It is critical that all values in the **RowTotal** column are integers > 0. When each row includes a count of one or more households represented by the distinct combination of column values, the total number of rows– is limited to the number of active households. However, the number of possible distinct combinations of column values is massive and including rows that do not represent any households could result in unmanageable file sizes.

See Section 6: HMIS Business Logic: LSAHousehold.

2.9. LSAExit.csv

LSAExit contains 16 columns of information, plus the **ReportID**. The file identifies households with system exits – i.e., exits from a continuum project followed by at least two weeks without an active enrollment – in three distinct periods:

- Cohort -2 – Begins two years prior to the report start date and ends two years prior to the end date.
- Cohort -1– Begins one year prior to the report start date and ends one year prior to the end date.
- Cohort 0 – Begins on the report start date, If the report period is at least six months, the cohort period ends at six months; otherwise, the cohort period is the same as the report period.

Columns include the following types of data:

- Identifiers for project types, household types, and populations in which clients were served;
- Destination types; and
- For clients that returned to the homeless continuum, length of time to return and project type to which the client returned.

Rows represent specific combinations of these data points. Unlike LSAHousehold, LSAExit may include more than one row for any given household if the household has qualifying exits in more than one cohort period. Each household is counted in one row for each exit cohort in which they occur. The sum of **RowTotal** values in the file, grouped by Cohort, is equal to the total number of households in each of the respective cohorts. It is critical that all values in this column are integers > 0. The largest possible number of rows – when each row includes a count of one or more households represented by the distinct combination of column values – is limited to the number of active households. However, there are billions of possible distinct combinations of column values and including rows that do not represent any households could result in files of unmanageable size.

See Section 7. HMIS Business Logic: LSAExit.

2.10. LSACalculated.csv

This file is used to upload calculated values for report output that cannot be derived from the aggregate data. It is used to populate columns that report on average number of days for all household types and populations in:

- System Use – Length of Time Homeless
- System Use – Cumulative Length of Time in PSH
- System Use – Length of Time in RRH Projects
- Returns – Days to Return/Re-engage by Exit Destination
- Days to Return/Re-engage by Last Project Type
- Days to Return/Re-engage by System Path
- Days to Return/Re-engage by Population

It is also used for counts of persons, households, and bednights, including:

- Project-level counts of households and clients active at any point in the report period and on four specific dates during the report period; and
- Project-level counts of total bednights in the report period.

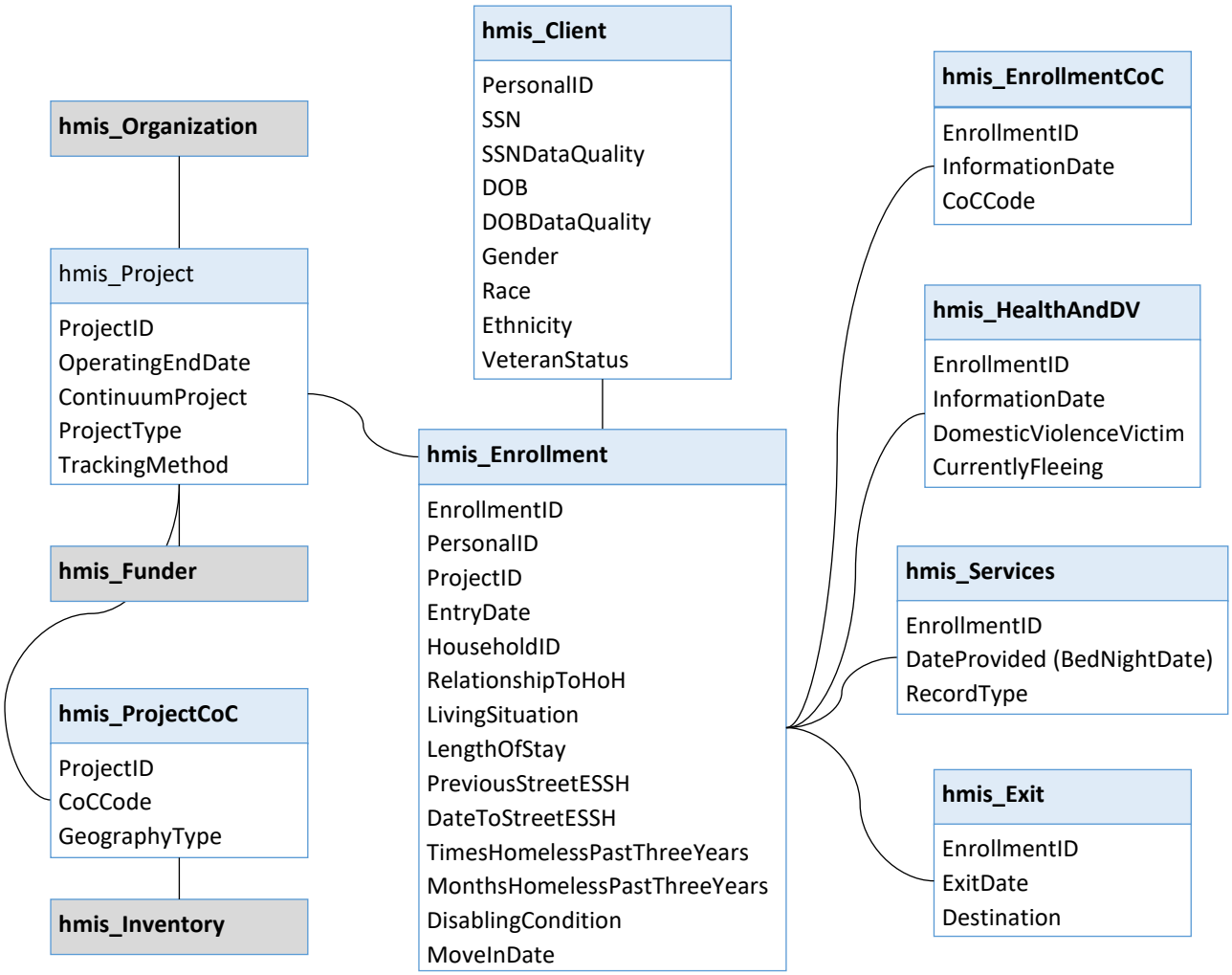
The **Value** column holds the average or count. Other columns identify the report row, household type, population, etc.

See Section 8. HMIS Business Logic: LSACalculated.

3. HMIS Business Logic: Core Concepts

The universe of HMIS project, client, and enrollment data used to generate the LSA is very broad in scope. It uses systemwide enrollment data for continuum ES, SH, TH, RRH, and PSH projects and includes project descriptor data for OPH projects; and may include enrollments with exit dates and projects with operating end dates as far back as 2012.

The HMIS data required for the LSA are shown below. The fields relevant to the business logic of the report are listed.



The business logic in this section defines core concepts: report parameters, reporting cohorts, basic criteria for record selection, and identification of household types in various contexts.

Any given enrollment may be relevant for a variety of reporting purposes, each of which has specific criteria, but there is a common set of criteria that applies to identification of relevant HMIS data in every aspect of LSA reporting.

There are also adjustments to HMIS move-in and exit dates that may be required to resolve conflicts with other HMIS data that apply regardless of how a particular enrollment is being used for reporting.

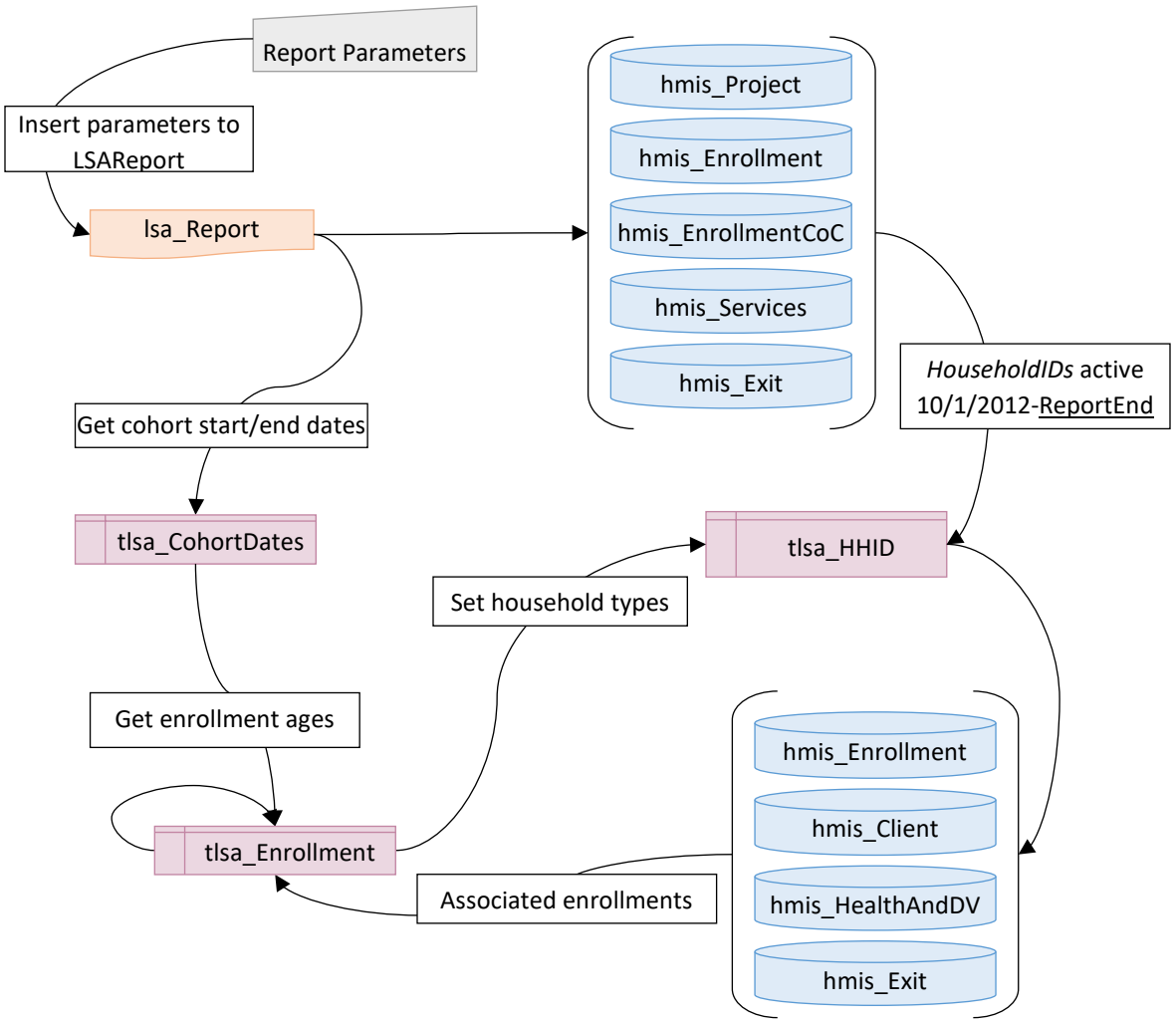
To simplify subsequent steps and to reduce repetition, the logic associated with selection of valid enrollments and resolution of data conflicts is described here for all HMIS *HouseholdID*s active on or after 10/1/2012 in continuum ES/SH/TH/RRH/PSH projects that meet the core criteria.

As described, it is a process that creates records in two 'temporary tables' – tlsa_HHID and tlsa_Enrollment. They are highly de-normalized and include both HMIS data (e.g., *ProjectType*) and calculated variables (e.g., **HHType**) that are set once in these tables and referenced repeatedly in subsequent steps.

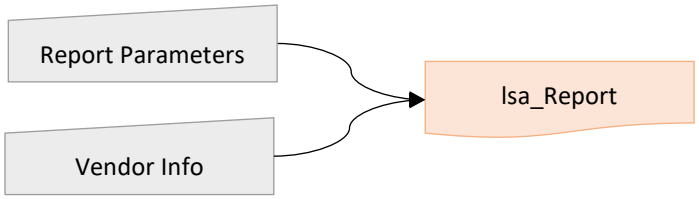
- A record is created in tlsa_HHID for each *HouseholdID* with columns for frequently-used data, including effective/adjusted move-in and exit dates where relevant (section 3.3).
- A record is created in tlsa_Enrollment for each validated *EnrollmentID* with columns for frequently used data, including effective/adjusted move-in and exit dates where relevant (section 3.4).

Household type is determined by the ages of household members. The calculation of age and household type is context-dependent – some processes require household type based on ages at project entry; others require household type based on age at the later of project entry or the start of a given cohort period. As described:

There are multiple age columns in tlsa_Enrollment (**EntryAge**, **ActiveAge**, etc.) and multiple household type columns in tlsa_HHID (**EntryHHType**, **ActiveHHType**, etc.). Descriptions of business logic associated with age and household type processes are not repeated in subsequent sections.



3.1. Report Parameters and Metadata (lsa_Report)



User-entered report parameters are included in LSAReport for upload to HDX 2.0. When they are applied in subsequent steps, their source is represented in graphics using lsa_Report. References to individual report parameters are always underlined – e.g., ReportStart – in descriptions of business logic.

Relevant Data

Source

User-entered and vendor-provided data.

Target

LSAReport
ReportID
ReportStart
ReportEnd
ReportCoC
LSAScope
SoftwareVendor
SoftwareName
VendorContact
VendorEmail

Logic

ReportID

ReportID is a system-generated integer that distinctly identifies an instance of LSA output and is repeated in each of the CSV files to confirm that they were produced together.

ReportStart

Report Start Date (ReportStart) – For submission to HUD, this must be the first day (October 1) of the fiscal year for which the LSA is being produced. It must be possible for a user to select any date on or after October 1, 2015.

The data type for the column is date; values should be formatted as 'yyyy-mm-dd'.

ReportEnd

Report End Date (ReportEnd) - For submission to HUD, this must be the last day (September 30) of the fiscal year for which the LSA is being produced.

- It must be possible for a user to select any date >= ReportStart. However, since the LSA is resource-intensive, HMIS vendors may limit the ability of users to specify date ranges beyond one year in length.
- The phrase "report period," in the context of this document, refers to the period between ReportStart and ReportEnd, inclusive of those two dates.

The data type for the column is date; values should be formatted as 'yyyy-mm-dd'.

ReportCoC

CoC Code (ReportCoC) – The HUD-assigned code identifying the continuum for which the LSA is being produced. Users must be able to select one CoC from a drop-down list that includes all *2.03 Continuum of Care Codes* for which they are authorized to generate the LSA.

The column is limited to six characters – e.g., 'XX-999' – and must match the HDX 2.0 value for the CoC for which the user is uploading data.

LSAScope

LSAScope is a user-selected report parameter.

LSAScope Values	Category
1	Systemwide
2	Project-focused

Systemwide – LSA reporting procedures must identify projects relevant to the LSA based on project types and business logic defined by this document without requiring the user to select individual projects. (**LSAScope** must be 1 for submissions to HUD.)

Project-Focused – Users must be able to specify a subset of one or more HMIS projects such that clients included in reporting are limited to those served in the selected projects. (Reporting on system use and chronic homelessness uses systemwide data regardless of LSAScope.) Projects available to select should be limited to:

- Continuum projects (*ContinuumProject* = 1)
- ES, SH, TH, RRH, and PSH projects (*ProjectType* in (1,2,3,8,13)

Regardless of LSAScope, reporting on system use and chronic homelessness for the clients and households included in reporting always uses systemwide data.

User-Selected Projects (for Project-Focused LSA)

For a project-focused LSA, the HMIS *ProjectID*s for the projects selected by the user are also a parameter. This parameter is applied when selecting PDDE data for export.

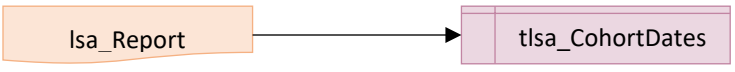
SoftwareVendor and SoftwareName

SoftwareVendor and **SoftwareName** must be hard-coded to ensure that the values are consistent across all HMIS implementations. Both of these columns are strings; they may not exceed 50 characters and may not include any of the following: < > [ ] { }.

VendorContact and VendorEmail

Vendors may elect to provide contact information or to populate these columns with 'n/a.' In either case, **VendorContact** and **VendorEmail** must be hard-coded by the vendor. Both of these columns are strings; they may not exceed 50 characters and may not include any of the following: < > [ ] { }.

3.2. LSA Reporting Cohorts and Dates (tlsa_CohortDates)



A 'cohort' refers to a group of clients and/or households who meet specific criteria and were served in a given time frame.

The user-entered LSA report period – ReportStart to ReportEnd – defines the **active cohort**, which includes people and households served in continuum ES, SH, TH, RRH, and PSH projects during that time frame. Reporting in LSAPerson and LSAHousehold is limited to the active cohort.

The LSA is not limited to the active cohort, however; it includes reporting for multiple time frames and cohorts.

LSAExit is limited to reporting on are three **exit cohorts**, which include households who:

- Exited from a continuum ES, SH, TH, RRH, or PSH project during three cohort time periods; and
- Were not enrolled in any continuum ES, SH, TH, RRH, or PSH project in the 14 days after exit.

There are four **point-in-time cohorts**, which include people and households active in residence (i.e., with a bed night) in continuum ES, SH, TH, RRH, or PSH projects on four specific dates during the report period. Reporting on these cohorts is limited to counts in LSACalculated.

Finally, there is a **data quality cohort**, which includes people and households with enrollments active in the three year period ending on ReportEnd. Data quality reporting is in both LSAReport and LSACalculated.

This section defines the logic associated with deriving the cohort periods based on ReportStart and ReportEnd.

Relevant Data

Source

lsa_Report
ReportStart
ReportEnd

Target

Cohorts and cohort periods are referenced in subsequent steps using an intermediate data construct/temporary table called tlsa_CohortDates.

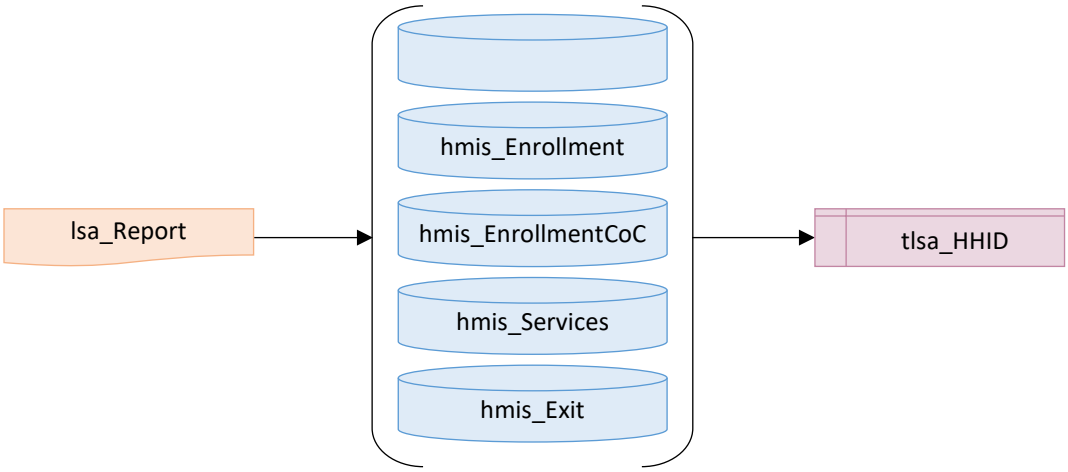
tlsa_CohortDates
Cohort
CohortStart
CohortEnd

Logic

Point-in-time cohorts are only included if the relevant date falls between ReportStart and ReportEnd. Other cohorts are always included.

Cohort	Cohort Type	CohortStart	CohortEnd
-2	Exit Minus 2	(ReportStart - 2 years)	(ReportEnd - 2 years)
-1	Exit Minus 1	(ReportStart - 1 year)	(ReportEnd – 1 year)
0	Exit 0	ReportStart	If [ReportEnd – 6 months] <= ReportStart, use ReportEnd Otherwise, [ReportEnd – 6 months]
1	Active	ReportStart	ReportEnd
10	Point in time 10/31	October 31 of ReportStart year	= **CohortStart**
11	Point in time 1/31	January 31 of ReportEnd year	= **CohortStart**
12	Point in time 4/30	April 30 of ReportEnd year	= **CohortStart**
13	Point in time 7/31	July 31 of ReportEnd year	= **CohortStart**
20	Data quality	([ReportEnd – 3 years] + 1 day)	ReportEnd

3.3. HMIS Household Enrollments (tlsa_HHID)



Not all of the *HouseholdID*s identified in this step will ultimately be used by LSA reporting processes. Subsequent steps define the specific criteria associated with each step. However, all subsequent steps are based on the following assumptions:

1. All LSA reporting is limited to enrollments that meet the core criteria defined in this step; and
2. Any reference to **MoveInDate** or **ExitDate** as a property of tlsa_HHID or tlsa_Enrollment is a reference to the effective/adjusted exit and move-in dates consistent with the logic in this step.

References to hmis_Enrollment.*MoveInDate* and hmis_Exit.*ExitDate* are to raw HMIS data as entered.

Relevant Data

Source

lsa_Report
ReportCoC
ReportEnd
hmis_Project
ProjectID
ProjectType
TrackingMethod
OperatingEndDate
hmis_Enrollment
EnrollmentID
PersonalID
ProjectID
HouseholdID
EntryDate
RelationshipToHoH
MoveInDate
hmis_EnrollmentCoC
EnrollmentID
InformationDate
CoCCode

hmis_Services
EnrollmentID
BedNightDate (*DateProvided* where *RecordType* = 200)
hmis_Exit
EnrollmentID
ExitDate

Target

The logic associated with values for columns with names in **bold** below is described in this step. The business logic associated with other columns is described in subsequent steps.

tlsa_HHID	Column Description
HouseholdID	Distinct *HouseholdIDs* served in continuum ES/SH/TH/RRH/PSH projects between 10/1/2012 and ReportEnd
HoHID	The unique identifier for the head of household – i.e., the *PersonalID* from the enrollment associated with the *HouseholdID* where *RelationshipToHoH* = 1.
EnrollmentID	From hmis_Enrollment
ProjectID	From hmis_Enrollment
ProjectType	From hmis_Project
TrackingMethod	From hmis_Project
EntryDate	From hmis_Enrollment
MoveInDate	From hmis_Enrollment – the move-in date for RRH/PSH enrollments, which may differ from the recorded *MoveInDate* in HMIS. (See below.)
ExitDate	The effective *ExitDate* for the HoH enrollment, which may differ from the *ExitDate* recorded in hmis_Exit. (See below.)
LastBednight	If *ProjectType* = 1 and *TrackingMethod* = 3, the latest *BedNightDate* for the HoH on or before ReportEnd
EntryHHType	For all household enrollments, household type based on household member ages as of their **EntryDate**
ActiveHHType	For all household enrollments, household type as the enrollment might be relevant to reporting on the active cohort. For those active in the report period, this is based on household member ages as of the later of **EntryDate** and ReportStart. For inactive enrollments, which may be relevant to reporting on system use or homelessness prior to the report period, this is always the **EntryHHType**.
Exit1HHType	For all household enrollments, household type as the enrollment might be relevant to reporting on exit cohort -1. For household enrollments where **ExitDate** occurs in the cohort period, household type based on ages as of the later of **EntryDate** and **CohortStart.** For enrollments before and after the cohort period, which may be relevant to reporting on system use or returns, this is always the **EntryHHType**.
Exit2HHType	For all household enrollments, household type as the enrollment might be relevant to reporting on exit cohort -2. For household enrollments where **ExitDate** occurs in the cohort period, household type based on ages as of the later of **EntryDate** and **CohortStart.** For enrollments before and after the cohort period, which may be relevant to reporting on system use or returns, this is always the **EntryHHType**.
ExitCohort	Identifies the cohort period in which the **ExitDate** occurs, if any; set in section 7.1 Identify Qualifying Exits in Exit Cohort Periods
ExitDest	Exit destination, if any.
Active	Identifies **HouseholdID**s included in the active cohort

HHChronic	Identifies households with a chronically homeless HoH or adult See section 5.17 Set Population Identifiers for Active HMIS Households
HHVet	Identifies households with one or more veteran adults See section 5.17 Set Population Identifiers for Active HMIS Households
HHDisability	Identifies households with a disabled HoH or other adult See section 5.17 Set Population Identifiers for Active HMIS Households
HHFleeingDV	Identifies households fleeing domestic violence See section 5.17 Set Population Identifiers for Active HMIS Households
HHAdultAge	Identifies age-related populations (e.g., Senior 55+, Parenting Youth 18-24, Non-Veteran 25+) See section 5.17 Set Population Identifiers for Active HMIS Households
HHParent	Identifies households where at least one household member has a *RelationshipToHoH* of 'Child' (2) See section 5.17 Set Population Identifiers for Active HMIS Households
AC3Plus	Identifies AC households with 3 or more household members under 18 See section 5.17 Set Population Identifiers for Active HMIS Households

Logic

HMIS Data Requirements and Assumptions

The HMIS Lead must identify and merge duplicate records for individual clients prior to generating the LSA. The production of an unduplicated count of people experiencing homelessness is a fundamental purpose of HMIS. As such, it has been a requirement of every version of the HMIS Data Standards since March 2010 that an HMIS application must have functionality that allows the HMIS Lead to de-duplicate records with different *PersonalID*s for the same client. For the LSA, it is particularly critical that HMIS Leads *utilize* this functionality; it is not otherwise possible to produce accurate longitudinal and/or systemwide reporting.

Unless otherwise specified by this document, reporting procedures must exclude any data which is inconsistent with the HMIS Data Standards and HMIS CSV Specifications. Both the programming specifications and sample code assume the existence of relational database tables with properties consistent with the HMIS CSV specifications, to include column names, primary keys, foreign keys, and column values limited to those defined for HMIS. Referential integrity is also assumed. There are defined requirements for addressing a limited number of data issues in LSA reporting; however, it is outside the scope of this document to anticipate every potential inconsistency. In systems that – for whatever reason – allow users to create records that are inconsistent with HMIS requirements, it is the responsibility of the vendor to be aware of these exceptions and exclude the records from LSA reporting.

Deleted data are never used for reporting. Any record marked as deleted must be excluded from LSA reporting.

Only data associated with valid enrollments in continuum projects is included in the LSA. A valid enrollment has, at a minimum, an *EntryDate*, a *PersonalID*, a *ProjectID*, a *HouseholdID*, a valid *RelationshipToHoH*, and an *EnrollmentCoC* associated with the head of household's *EnrollmentID*. Data not associated with a valid enrollment – including bed nights in systems that allow users to create a record of a bednight without a valid enrollment – is excluded from the LSA.

For any given *HouseholdID*, there must be exactly one enrollment record where *RelationshipToHoH* = 1. If the HMIS allows users to create enrollments with no designated HoH and/or with more than one designated HoH:

- Those enrollments will be excluded from LSA reporting.
- A count of enrollments with <> 1 HoH will be included in LSAReport.**NotOneHoH**.
- CoCs may upload LSA file sets where **NotOneHoH** > 0 to HDX 2.0 for local use and review.

- CoCs may not submit LSA file sets where **NotOneHoH1** or **NotOneHoH3** > 0 to HUD for use in the AHAR. Invalid HoH data must be corrected and a new LSA file set must be uploaded.

A head of household must be present for the duration of a project stay. If the HMIS allows users to enter household member enrollments with entry dates prior to that of the HoH or with exit dates after that of the HoH:

- For household member enrollments with entry dates before the HoH, LSA reporting procedures will use the HoH *EntryDate*.
- For household member enrollments that remain open after the HoH has exited, reporting procedures will use the HoH *ExitDate*.

An *ExitDate* must be at least one day later than the *EntryDate*. Enrollments with a duration of less than a day will be excluded from LSA reporting.

Households with RRH enrollments in the report period where *MoveInDate* is equal to the *ExitDate* will be counted as housed in RRH. It is consistent with the RRH model that a project might provide services and/or financial assistance to assist a household in obtaining permanent housing that do not continue past the date that the household moves in. As such, a household is considered housed in RRH on their *MoveInDate* even if it coincides with the *ExitDate*. This is the only circumstance under which a bed night is counted for an *ExitDate*.

Households with PSH enrollments in the report period where *MoveInDate* is equal to the *ExitDate* will not be counted as housed in PSH. It is not consistent with the PSH model, which includes long-term residential services, that a household could be considered housed by the project with an exit on the move-in date.

For night-by-night ES, any *ExitDate* must be one day after the last recorded bed night. For any exit where there is not a record of a bed night for the preceding date:

- LSA reporting procedures will use an effective exit date of [last bed night + 1 day].
- *Destination* will be reported as unknown, if applicable.

Night-by-night ES clients are to be auto-exited after an extended period without a bed night. For any night-by-night ES enrollment where there is no record of an exit and there is no record of a bed night in the 90 days ending on ReportEnd:

- LSA reporting procedures will use an effective exit date of [last bed night + 1 day].
- *Destination* will be reported as unknown, if applicable.

Enrollments are effectively terminated when a project ceases operation. If there are enrollments that remain open after a project's *OperatingEndDate* – i.e., do not have an exit date or have an exit date that is later than the project end date:

- LSA reporting procedures will use the operating end date as the effective exit date.
- *Destination* will be reported as unknown, if applicable.

Record Selection

Potentially relevant *HouseholdID*s are those associated with one or more project enrollments that meet the following criteria.

- Project.*ProjectType* in (2,3,8,13) or (Project.*ProjectType* = 1 and *TrackingMethod* in (0,3))
- Project.*ContinuumProject* = 1
- Project.*OperatingEndDate* is NULL; or
    - Project.*OperatingEndDate* >= 10/1/2012 and > Project.*OperatingStartDate*
- Enrollment.*RelationshipToHoH* = 1

- There is no other enrollment record for the *HouseholdID* where *RelationshipToHoH* = 1
- Enrollment.*EntryDate* <= ReportEnd
- Enrollment.*EntryDate* < Project.*OperatingEndDate* or *OperatingEndDate* is NULL
- Exit.*ExitDate* is NULL or (Exit.*ExitDate* >= 10/1/2012' and Exit.*ExitDate* > Enrollment.*EntryDate*)
- There is an EnrollmentCoC record where *InformationDate* <= ReportEnd and *CoCCode* = ReportCoC
- If Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3, there is at least one *BedNightDate* record between ReportStart and ReportEnd

MoveInDate

For LSA reporting, the *MoveInDate* is set for the head of household from the HMIS enrollment record only if it occurs before the end of the report period and is logically consistent with the project type, the head of household's entry/exit dates, and the project's operating dates:

Condition	Effective Move-In Date
Project.*ProjectType* not in (3,13)	NULL
MoveInDate < *EntryDate*	NULL
MoveInDate > Exit.*ExitDate*	NULL
MoveInDate = Exit.*ExitDate* and *ProjectType* = 3	NULL
MoveInDate > ReportEnd	NULL
MoveInDate > Project.*OperatingEndDate*	NULL
(any other)	*MoveInDate*

Last Bed Night for Night-by-Night Shelter Enrollments

Where Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3, **LastBedNight** refers to the most recent record (Services.*RecordType* = 200) of a bed night associated with the head of household's enrollment where:

- *DateProvided* between 10/1/2012 and ReportEnd; and
- *DateProvided* >= Enrollment.*EntryDate*; and
- *DateProvided* < Exit.*ExitDate* or Exit.*ExitDate* is NULL; and
- *DateProvided* < Project.*OperatingEndDate* or Project.*OperatingEndDate* is NULL.

ExitDate

Exits that occur after the end of the report period are not relevant; if *ExitDate* > ReportEnd, the tlsa_HHID.**ExitDate** should be NULL unless one of the conditions below apply.

In the event that the recorded *ExitDate* (or lack thereof) associated with an enrollment is inconsistent with other data, reporting must be based on an adjusted *ExitDate* consistent with the logic below. If applicable, *Destination* for these enrollments is reported as 'Unknown' (99).

- For any enrollment that remains open at the time a project ceases operation, the project's *OperatingEndDate* is the effective *ExitDate*.
- The effective *ExitDate* is [LastBednight + 1 day] for any enrollment in a night-by-night shelter where:
    - The recorded *ExitDate* is more than one day after the last bed night; or
    - There is no *ExitDate* and LastBedNight is 90 days or more prior to ReportEnd.

Condition	Effective Exit Date
[**LastBednight** + 90 days] <= ReportEnd and *ExitDate* is NULL	[**LastBednight** + 1 day]
ExitDate > [**LastBednight** + 1 day]	[**LastBednight** + 1 day]

Project.*OperatingEndDate* < ReportEnd and *ExitDate* is NULL	Project.*OperatingEndDate*
Project.*OperatingEndDate* < ReportEnd and *ExitDate* > Project.*OperatingEndDate*	Project.*OperatingEndDate*
ExitDate > ReportEnd	NULL
(any other)	*ExitDate*

ExitDest

The LSA includes reporting on exit destinations for the active and exit cohorts. Destination for inactive enrollments may also be relevant to system engagement status for the active and exit cohorts. The LSA exit destination categories are:

LSA Value	Category
1	PSH
2	PH - rent/temp subsidy
3	PH - rent/own with subsidy
4	PH - rent/own no subsidy
5	Family – perm
6	Friends – perm
7	Institutions - group/assisted
8	Institutions - medical
9	Institutions - incarceration
10	Temporary - not homeless
11	Homeless - ES/SH/TH
12	Homeless – Street
13	Family – temp
14	Friends – temp
15	Deceased
99	Unknown

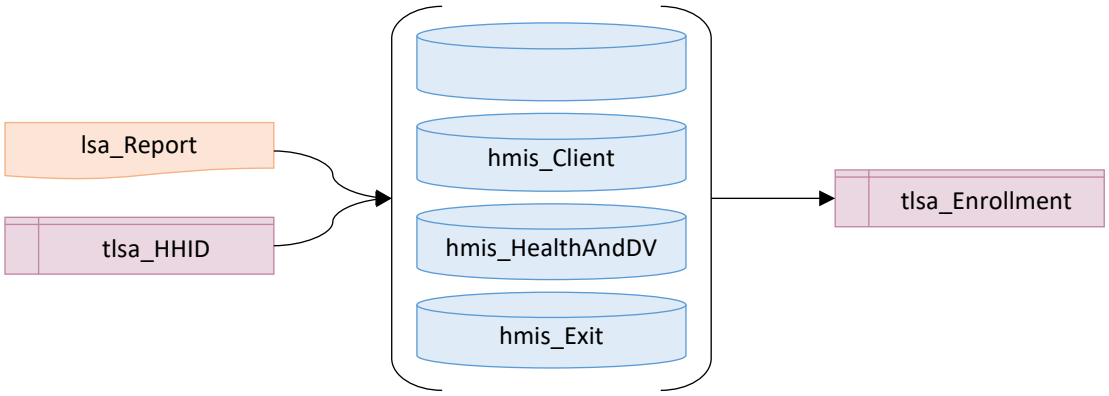
In the event that the recorded *ExitDate* (or lack thereof) associated with an enrollment is inconsistent with other data, (see **ExitDate** above), destination is always reported as unknown where relevant.

- If tlsa_HHID.**ExitDate** is null, **ExitDest** = null
- If tlsa_HHID.**ExitDate** <> hmis_Exit.*ExitDate*, **ExitDest** = 99.
- Otherwise, set **ExitDest** based on hmis_Exit.*Destination* using the crosswalk below.

HMIS Value	HMIS Response Category	LSA Value
3	Permanent housing (other than RRH) for formerly homeless persons	1
31	Rental by client, with RRH or equivalent subsidy	2
19	Rental by client, with VASH housing subsidy	3
20	Rental by client, with other ongoing housing subsidy	3
21	Owned by client, with ongoing housing subsidy	3
26	Moved from one HOPWA funded project to HOPWA PH	3
28	Rental by client, with GPD TIP housing subsidy	3
33	Rental by client, with HCV voucher (tenant or project based)	3
34	Rental by client in a public housing unit	3
10	Rental by client, no ongoing housing subsidy	4
11	Owned by client, no ongoing housing subsidy	4

HMIS Value	HMIS Response Category	LSA Value
22	Staying or living with family, permanent tenure	5
23	Staying or living with friends, permanent tenure	6
15	Foster care home or foster care group home	7
25	Long-term care facility or nursing home	7
4	Psychiatric hospital or other psychiatric facility	8
5	Substance abuse treatment facility or detox center	8
6	Hospital or other residential non-psychiatric medical facility	8
7	Jail, prison or juvenile detention facility	9
14	Hotel or motel paid for without emergency shelter voucher	10
29	Residential project or halfway house with no homeless criteria	10
1	Emergency shelter, including hotel or motel paid for with ES voucher	11
2	Transitional housing for homeless persons	11
18	Safe Haven	11
27	Moved from one HOPWA funded project to HOPWA TH	11
32	Host home (non-crisis)	11
16	Place not meant for habitation	12
12	Staying or living with family, temporary tenure	13
13	Staying or living with friends, temporary tenure	14
24	Deceased	15
	(any other)	99

3.4. HMIS Client Enrollments (tlsa_Enrollment)



Relevant Data

Source

tlsa_HHID
HouseholdID
ProjectID
ProjectType
TrackingMethod
EntryDate
MoveInDate
ExitDate
hmis_Enrollment
EnrollmentID

PersonalID
ProjectID
HouseholdID
EntryDate
RelationshipToHoH
DisablingCondition
hmis_HealthAndDV
InformationDate
DomesticViolenceVictim
CurrentlyFleeing
hmis_Client
PersonalID
DOB
DOBDataQuality
hmis_Exit
EnrollmentID
ExitDate

Target

The logic associated with values for columns with names in **bold** below is described in this step. The business logic associated with other columns is described in subsequent steps.

tlsa_Enrollment	Column Description
EnrollmentID	Distinct *EnrollmentIDs* in continuum ES/SH/TH/RRH/PSH projects between 10/1/2012 and ReportEnd
PersonalID	From hmis_Enrollment
HouseholdID	From hmis_Enrollment, limited to *HouseholdID*s in tlsa_HHID
RelationshipToHoH	From hmis_Enrollment
ProjectID	From tlsa_HHID
ProjectType	From tlsa_HHID
TrackingMethod	From tlsa_HHID
EntryDate	From hmis_Enrollment
MoveInDate	Based on tlsa_HHID – the move-in date for RRH/PSH enrollments, which may differ from the recorded *MoveInDate* in HMIS or for the HoH. (See below.)
ExitDate	Based on hmis_Exit, the effective exit date for the enrollment, which may differ from the *ExitDate* recorded in hmis_Exit. (See below.)
EntryAge	The client's age as of **EntryDate**
ActiveAge	For enrollments active in the report period, the client's age as of the later of **EntryDate** and ReportStart. For all other enrollments, this will be the same as **EntryAge**
Exit1Age	For enrollments with an exit date between **CohortStart** and **CohortEnd** for exit cohort -1, client age as of the later of **EntryDate** and **CohortStart** for the relevant cohort period. For all other enrollments, this will be the same as **EntryAge**
Exit2Age	For enrollments with an exit date between **CohortStart** and **CohortEnd** for exit cohort -2, client age as of the later of **EntryDate** and **CohortStart** for the relevant cohort period. For all other enrollments, this will be the same as **EntryAge**

tlsa_Enrollment	Column Description
DisabilityStatus	From hmis_Enrollment; used repeatedly in subsequent steps for demographic reporting and to identify households and people included in various populations of interest
DVStatus	From hmis_HealthAndDV; used repeatedly in subsequent steps for demographic reporting and to identify households and people included in various populations of interest
Active	Identifies enrollments that meet the criteria for inclusion in the active cohort
CH	Identifies enrollment relevant to reporting on chronic homelessness

Logic

Record Selection

Active enrollments:

- *HouseholdID* meets the selection criteria for inclusion in tlsa_HHID (HHID)
- Enrollment.*RelationshipToHoH* in (1,2,3,4,5)
- Enrollment.*EntryDate* < than the first non-NULL of HHID.**ExitDate** and ReportEnd
- Exit.*ExitDate* is NULL or
    - Exit.*ExitDate* >= 10/1/2012; and
    - Exit.*ExitDate* > Enrollment.*EntryDate*;
    - Exit.*ExitDate* > HHID.*EntryDate*.

EntryDate

In the event that a household member's EntryDate is prior to that of the head of household, the head of household's will be used as the effective entry date for the household member – i.e., tlsa_Enrollment.**EntryDate** should be set to tlsa_HHID.**EntryDate**.

MoveInDate

All of the requirements for *MoveInDate* that apply to the active household also apply to all household members' individual enrollments. If the household's effective *MoveInDate* is logically inconsistent with a household member's entry/exit dates, additional logic applies to setting the household member's effective *MoveInDate.*

- If the household *MoveInDate* is prior to a household member's *EntryDate*, the effective *MoveInDate* for the household member's enrollment is the same as their *EntryDate*.
- If the household *MoveInDate* is after a household member's *ExitDate*, the household member does not have a *MoveInDate.*
- If a household member exits the project on the date that the head of household moves in to permanent housing AND the household remains active in the project, the household member does not have a *MoveInDate*.

Condition	Effective Move-In Date
HHID.**MoveInDate** < Enrollment.*EntryDate*	Enrollment.*EntryDate*
HHID.**MoveInDate** > Exit.*ExitDate*	NULL
HHID.**MoveInDate** = Exit.*ExitDate* and HHID.**ExitDate** is NULL	NULL
HHID.**MoveInDate** = Exit.*ExitDate* and HHID.**ExitDate** > Exit.*ExitDate*	NULL
(any other)	HHID.**MoveInDate**

ExitDate

All of the requirements for *ExitDate* that apply to the active household apply to all household members. In addition, no household member's enrollment may continue past the head of household's actual or effective exit date (tlsa_HHID.**ExitDate**).

If a household member's enrollment remains active after the household exit date (actual or effective), the effective exit date for the household member is the same as the household's exit date.

Condition	Effective Exit Date
ExitDate > ReportEnd	NULL
ExitDate > HHID.**ExitDate**	HHID.**ExitDate**
ExitDate is NULL and HHID.**ExitDate** is not NULL	HHID.**ExitDate**
(any other)	*ExitDate*

DisabilityStatus

Because it is relevant and used repeatedly in subsequent steps both for demographic reporting and for identification of people and households who are part of specific populations of interest (e.g, Households with a Disabled Adult or Head of Household) , a preliminary enrollment-level value is included in tlsa_Enrollment.

Enrollment DisablingCondition Value	DisabilityStatus
0	0
1	1
(any other)	NULL

DVStatus

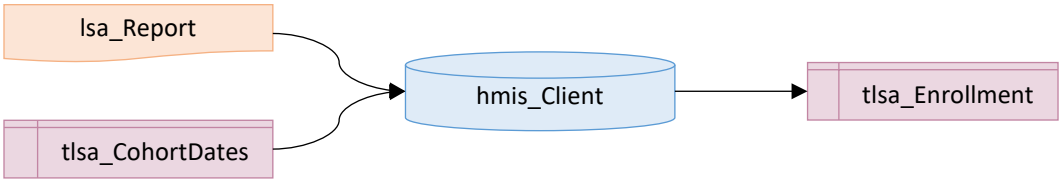
Because it is relevant and used repeatedly in subsequent steps both for demographic reporting and for identification of people and households who are part of specific populations of interest (e.g, Households Fleeing Domestic Violence) , a preliminary enrollment-level value is included in tlsa_Enrollment.

It is the minimum DVStatus value in the table below based on *DomesticViolenceVictim* and *CurrentlyFleeing* values for any record associated with the enrollment and dated:

- On or before ReportEnd: and
- On or before tlsa_Enrollment.**ExitDate**, if it is not null.

DomesticViolenceVictim	CurrentlyFleeing	DVStatus
1	1	1
1	0	2
1	(any other)	3
0	(n/a)	10
In (8,9)	(n/a)	98
(any other)	(n/a)	NULL

3.5. Enrollment Ages (tlsa_Enrollment)



Age is used to determine household type, for demographic reporting, and to identify households and people in reporting populations of interest. This section defines the logic associated with determining client age for all enrollments in all contexts that age may be relevant.

It uses data in tlsa_CohortDates and hmis_Client to set age group values for tlsa_Enrollment.

Relevant Data

Source

lsa_Report
ReportStart
ReportEnd
tlsa_CohortDates
Cohort
CohortStart
CohortEnd
tlsa_Enrollment
EntryDate
RelationshipToHoH
ExitDate
hmis_Client
DOB
DOBDataQuality

Target

tlsa_Enrollment
EntryAge
ActiveAge
Exit1Age
Exit2Age

Logic

EntryAge

A client's age at project entry is based on hmis_Client *DOB* and *DOBDataQuality* and the entry date for the enrollment.

All dates of birth must be validated; a client's age must be handled as unknown if any of the following are true:

- *DOBDataQuality* is anything other than 'Full DOB reported' (1) or 'Approximate or partial DOB reported' (2);
- *DOB* is missing or set to a system default;
- The calculation would result in an age over 105 years old;
- *DOB* is later than *EntryDate* for the enrollment; or
- *RelationshipToHoH* = 1 and *DOB* = *EntryDate* for the enrollment

The first of the criteria listed below met by the combination of values for *DOB, DOBDataQuality,* and **EntryDate** determines the **EntryAge** for each enrollment:

Priority	Condition	AgeGroup	LSA Category
1	*DOBDataQuality* in (8,9)	98	Client doesn't know/refused

Priority	Condition	AgeGroup	LSA Category
2	*DOBDataQuality* not in (1,2)	99	Missing/invalid
3	*DOB* is missing or set to a system default	99	Missing/invalid
4	*DOB > EntryDate*	99	Missing/invalid
5	*RelationshipToHoH* = 1 and *DOB = EntryDate*	99	Missing/invalid
5	[*DOB +* 105 years] <= **EntryDate**	99	Missing/invalid
6	[*DOB +* 65 years] <= **EntryDate**	65	65 and older
7	[*DOB +* 55 years] <= **EntryDate**	64	55 to 64
8	[*DOB +* 45 years] <= **EntryDate**	54	45 to 54 years
9	[*DOB +* 35 years] <= **EntryDate**	44	35 to 44 years
10	[*DOB +* 25 years] <= **EntryDate**	34	25 to 34 years
11	[*DOB +* 22 years] <= **EntryDate**	24	22 to 24 years
12	[*DOB +* 18 years] <= **EntryDate**	21	18 to 21 years
13	[*DOB* + 6 years] <= **EntryDate**	17	6 to 17 years
14	[*DOB* + 3 years] <= **EntryDate**	5	3 to 5 years
15	[*DOB* + 1 years] <= **EntryDate**	2	1 to 2 years
16	(other)	0	<1 year

Once **EntryAge** is set, an additional adjustment may be required so that the date of birth (or lack thereof) used to calculate age is consistent across all enrollments. For any given **PersonalID**, if there is any enrollment in tlsa_Enrollment where **EntryAge** = 99, **EntryAge** for all enrollments should be set to 99.

ActiveAge

ActiveAge is calculated for all enrollments. For enrollments active in the report period, it will only differ from **EntryAge** if the **EntryDate** < ReportStart (and may not differ then).

For inactive enrollments, it is equal to **EntryAge.** (Age for inactive enrollments may be needed to report on active client/household history.)

Priority	Condition	AgeGroup
1	**ExitDate** < ReportStart	**EntryAge**
2	**EntryDate** >= ReportStart	**EntryAge**
3	**EntryAge** in (98,99)	**EntryAge**
4	[*DOB +* 65 years] <= ReportStart	65
5	[*DOB +* 55 years] <= ReportStart	64
5	[*DOB +* 45 years] <= ReportStart	54
6	[*DOB +* 35 years] <= ReportStart	44
7	[*DOB +* 25 years] <= ReportStart	34
8	[*DOB +* 22 years] <= ReportStart	24
9	[*DOB +* 18 years] <= ReportStart	21
10	[*DOB* + 6 years] <= ReportStart	17
11	[*DOB* + 3 years] <= ReportStart	5
12	[*DOB* + 1 years] <= ReportStart	2
13	(other)	0

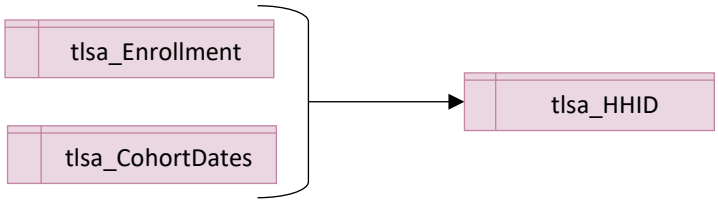
Exit1Age/Exit2Age

Exit1Age/Exit2Age are set for all enrollments as they apply to reporting on exit cohorts -1 and -2.

Like **ActiveAge**, they will differ from **EntryAge** only when the enrollment meets the time criteria for inclusion in the cohort (**ExitDate** is between **CohortStart** and **CohortEnd**) AND the **EntryDate** is before the start of the cohort period. Otherwise, the exit age = **EntryAge**.

Priority	Condition	AgeGroup
1	**ExitDate** not between **CohortStart** and **CohortEnd**	**EntryAge**
2	**ExitDate** between **CohortStart** and **CohortEnd** and **EntryDate** >= **CohortStart**	**EntryAge**
3	**EntryAge** in (98,99)	**EntryAge**
4	[*DOB* + 65 years] <= **CohortStart**	65
5	[*DOB* + 55 years] <= **CohortStart**	64
5	[*DOB* + 45 years] <= **CohortStart**	54
6	[*DOB* + 35 years] <= **CohortStart**	44
7	[*DOB* + 25 years] <= **CohortStart**	34
8	[*DOB* + 22 years] <= **CohortStart**	24
9	[*DOB* + 18 years] <= **CohortStart**	21
10	[*DOB* + 6 years] <= **CohortStart**	17
11	[*DOB* + 3 years] <= **CohortStart**	5
12	[*DOB* + 1 years] <= **CohortStart**	2
13	(other)	0

3.6. Household Types (tlsa_HHID)



This section defines the logic associated with determining household type for each active household.

It uses the tsla_Enrollment **EntryAge**, **ActiveAge**, **Exit1Age**, and **Exit2Age** values set in the previous step to set tlsa_HHID **EntryHHType, ActiveHHType, Exit1HHType** and **Exit2HHType**.

Relevant Data

Source

tlsa_Enrollment
HouseholdID
EntryDate
ExitDate
EntryAge
ActiveAge
Exit1Age
Exit2Age
tlsa_CohortDates
Cohort
CohortStart
CohortEnd

Target

tlsa_HHID
EntryHHType
ActiveHHType
Exit1HHType
Exit2HHType

Logic

Household type for each **HouseholdID** is based on counts of distinct **PersonalID**s in tlsa_Enrollment by age status – adult, child, or unknown – for enrollments associated with the *HouseholdID*.

Age status is based on the **Entry/Active/Exit1/Exit2Age** value for each enrollment, as shown below.

Age Status	Age	Entry/Active/Exit1/Exit2Age
Adult	18 and over	Between 21 and 65
Child	Under 18	Between 0 and 17
Unknown	Unknown	98 or 99

The criteria below are mutually exclusive; it is not necessary to apply them in priority order.

# Adults	# Children	# Unknown Age	HHType	LSA Value
>= 1	0	0	AO (Adult-only)	1
>= 1	>= 1	(any)	AC (Adult-child)	2
0	>= 1	0	CO (Child-only)	3
(any)	0	>= 1	UN (Unknown)	99
0	(any)	>= 1	UN (Unknown)	99

EntryHHType

Calculate for tlsa_HHID based on **EntryAge** for all records in tlsa_Enrollment with the same **HouseholdID**.

EntryHHType is based on all household members' age at the time of their own project entry. It is not a point-in-time determination – for households whose members entered at different times, it may differ from the household type as of the head of household's entry and/or household members' entry dates.

ActiveHHType

If tlsa_HHID.**EntryDate** is >= ReportStart or tlsa_HHID.**ExitDate** < ReportStart, **ActiveHHType** = **EntryHHType**.

For all other households, **ActiveHHType** is based on **ActiveAge** values for records in tlsa_Enrollment with the same **HouseholdID** where **ExitDate** is NULL or **ExitDate** >= ReportStart. In other words, if the household is active in the report period, household type is based only on the ages of household members who were also active in the report period.

ActiveHHType is set for all household enrollments active in the report period, but it is not an indicator that the household meets all of the criteria for inclusion in the active cohort, which are described in section 5.1 Get Active HouseholdIDs. .

Exit1HHType/Exit2HHType

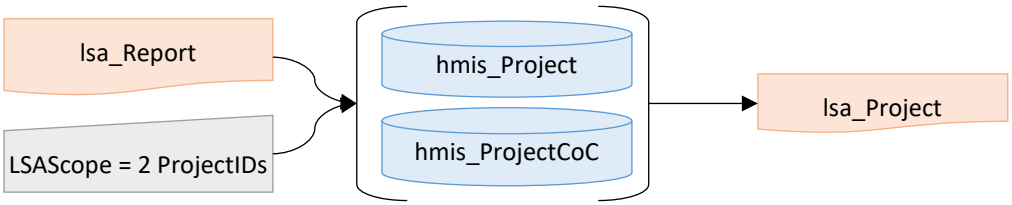
If tlsa_HHID.**EntryDate** is >= **CohortStart** or tlsa_HHID.**ExitDate** < **CohortStart**, **Exit(1 or 2)HHType** = **EntryHHType**.

For all other households, **Exit1HHType** is based on **Exit1Age** and **Exit2HHType** is based on **Exit2Age** for all records in tlsa_Enrollment with the same **HouseholdID** and:

- Where tlsa_Enrollment.**ExitDate** is between **CohortStart** and **CohortEnd**

4. HMIS Business Logic: Project Descriptor Data for Export

4.1. Get Project.csv Records / lsa_Project



Records exported to Project.csv are included in the LSA output and uploaded to HDX 2.0.

LSA business logic in subsequent steps is dependent on the identification of projects that meet the criteria for inclusion. References to lsa_Project.**ProjectID** are to these projects; references to hmis_Project records are to all projects in HMIS.

Relevant Data

Source

lsa_Report
ReportStart
ReportEnd
ReportCoC
hmis_Project
(all columns – see below)
hmis_ProjectCoC
CoCCode

Target

HDX 2.0 validation of Project.csv is generally consistent with the HMIS CSV specifications; differences are noted in the column descriptions below.

lsa_Project	Column Description
ProjectID	(See HMIS CSV documentation)
OrganizationID	(See HMIS CSV documentation)
ProjectName	Truncate HMIS value in export if >50 characters
ProjectCommonName	n/a – will not be imported
OperatingStartDate	(See HMIS CSV documentation)
OperatingEndDate	If not NULL, date must be >= ReportStart
ContinuumProject	Must = 1
ProjectType	Must be in (1,2,3,8,9,10,13)
HousingType	Must be in (1,2,3) / no NULL values
ResidentialAffiliation	Must be NULL
TrackingMethod	If **ProjectType** = 1, value must be 0 or 3; If **ProjectType** <> 1, must be NULL
HMISParticipatingProject	(See HMIS CSV documentation)
TargetPopulation	(See HMIS CSV documentation)
PITCount	n/a – will not be imported
DateCreated	(See HMIS CSV documentation)
DateUpdated	(See HMIS CSV documentation)

UserID	n/a – will not be imported
ExportID	Must match **ReportID** in LSAReport.csv

Logic

Systemwide LSA

When the LSA is being generated for all relevant projects systemwide, export records for projects where:

- *OperatingEndDate* is NULL; or
  - *OperatingEndDate* >= 10/1/2012 and > *OperatingStartDate*
- *ContinuumProject* = Yes (1)
- ProjectCoC.*CoCCode* = ReportCoC
- *ProjectType* is ES (1), SH (8), TH (2), RRH (13), PSH (3), or OPH (9 or 10)

All project records that meet the criteria above should be included, including projects that do not participate in HMIS.

The export of PDDE data for a systemwide LSA includes records for permanent housing project types 'PH – Housing Only' (9) and 'PH – Housing with Services (no disability required for entry)' (10). This is the only context in which data associated with projects of these types are relevant to the LSA.

Project-Focused LSA

If the LSA is being generated for a subset of projects, export records for projects where:

- *OperatingEndDate* is NULL; or
  - *OperatingEndDate* >= 10/1/2012 and > *OperatingStartDate*
- ProjectCoC.*CoCCode* = ReportCoC
- *ProjectID* is in [list of user-selected *ProjectID*s]
  - Section 2.1 requires that the projects available to a user for selection when entering report parameters must be limited to *ProjectType*s ES (1), SH (8), TH (2), RRH (13), and PSH (3), so records for other project types are never included when **LSAScope** = 2.

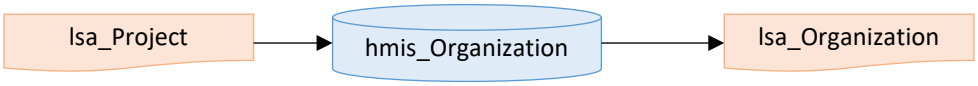
Systemwide and Project-Focused LSA

Populate **ExportID** with LSAReport.**ReportID***;* the data type for **ExportID** is a string, so **ReportID** must be converted appropriately.

ProjectType and *HousingType* may be NULL under some circumstances in the HMIS CSV; none of those circumstances apply to projects included in the LSA. Upload validation will fail if those columns do not have valid non-NULL values.

ProjectCommonName, **PITCount**, and **UserID** may be exported as NULL; regardless of their values, they will not be imported into the HDX 2.0.

4.2. Get Organization.csv Records / lsa_Organization



Records exported to Organization.csv are included in the LSA output and uploaded to HDX 2.0.

LSA business logic does not utilize Organization data beyond the export of records.

Relevant Data

Source

lsa_Project
OrganizationID
hmis_Organization
(all columns – see below)

Target

HDX 2.0 validation of Organization.csv is generally consistent with the HMIS CSV specifications; differences are noted in the column descriptions below.

lsa_Organization	Column Description
OrganizationID	(See HMIS CSV documentation)
OrganizationName	Truncate HMIS value in export if >50 characters
VictimServicesProvider	(See HMIS CSV documentation)
OrganizationCommonName	n/a - will not be imported
DateCreated	(See HMIS CSV documentation)
DateUpdated	(See HMIS CSV documentation)
UserID	n/a - will not be imported
DateDeleted	NULL
ExportID	Must match LSAReport.**ReportID**

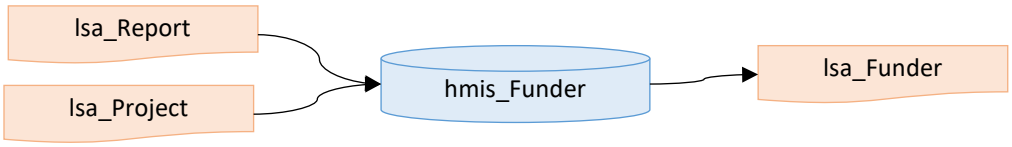
Logic

There must be exactly one record for every *OrganizationID* included in Project.csv.

Populate **ExportID** with LSAReport.**ReportID***;* the data type for **ExportID** is a string, so **ReportID** must be converted appropriately.

OrganizationCommonName and **UserID** may be exported as NULL; regardless of their values, they will not be imported into the HDX 2.0.

4.3. Get Funder.csv Records / lsa_Funder



Records exported to Funder.csv are included in the LSA output and uploaded to HDX 2.0.

LSA business logic does not utilize Funder data beyond the export of records.

Relevant Data

Source

lsa_Project
ProjectID
lsa_Report
ReportStart
hmis_Funder
(all columns – see below)

Target

HDX 2.0 validation of Funder.csv is generally consistent with the HMIS CSV specifications; differences are noted in the column descriptions below.

lsa_Funder	Column Description
FunderID	(See HMIS CSV documentation)
ProjectID	(See HMIS CSV documentation)
Funder	(See HMIS CSV documentation)
OtherFunder	(See HMIS CSV documentation)
GrantID	n/a - will not be imported
StartDate	(See HMIS CSV documentation)
EndDate	(See HMIS CSV documentation)
DateCreated	(See HMIS CSV documentation)
DateUpdated	(See HMIS CSV documentation)
UserID	n/a - will not be imported
DateDeleted	NULL
ExportID	Must match LSAReport.**ReportID**

Logic

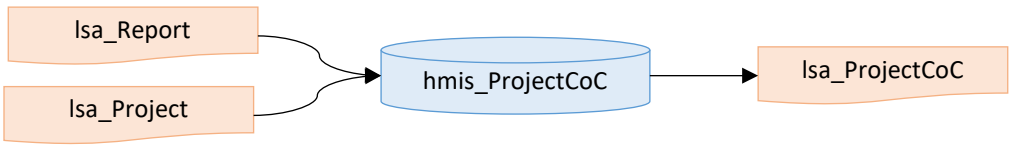
There must be at least one Funder record for every **ProjectID** included in Project.csv. Export records where:

- *EndDate* is NULL or (*EndDate* >= ReportStart and *EndDate* > *StartDate*)

Populate **ExportID** with LSAReport.**ReportID***;* the data type for **ExportID** is a string, so **ReportID** must be converted appropriately.

GrantID and **UserID** may be exported as NULL; regardless of their values, they will not be imported into the HDX 2.0.

4.4. Get ProjectCoC.csv Records / lsa_ProjectCoC



Records exported to ProjectCoC.csv are included in the LSA output and uploaded to HDX 2.0.

LSA business logic uses ProjectCoC data to:

- Select project records for export to Project.csv; and
- Report on geography type for active households in LSAHousehold.

Relevant Data

Source

lsa_Project
ProjectID
lsa_Report
ReportCoC
hmis_ProjectCoC
(all columns – see below)

Target

HDX 2.0 validation of ProjectCoC.csv is generally consistent with the HMIS CSV specifications; differences are noted in the column descriptions below.

lsa_ProjectCoC	Column Description
ProjectCoCID	(See HMIS CSV documentation)
ProjectID	(See HMIS CSV documentation)
CoCCode	(See HMIS CSV documentation)
Geocode	Not NULL. *Geocode* has a data type of string and must be exported as such / padded with double-quotes so that leading zeroes are not omitted.
Address1	(See HMIS CSV documentation)
Address2	(See HMIS CSV documentation)
City	(See HMIS CSV documentation)
State	(See HMIS CSV documentation)
ZIP	Not NULL. Note that *ZIP* has a data type of string and must be exported as such / padded with double-quotes so that leading zeroes are not omitted. If ZIP codes are collected with a four-digit suffix, only the first five digits should be exported.
GeographyType	Not NULL / in (1,2,3)
DateCreated	(See HMIS CSV documentation)
DateUpdated	(See HMIS CSV documentation)
UserID	n/a - will not be imported
DateDeleted	NULL
ExportID	Must match LSAReport.**ReportID**

Logic

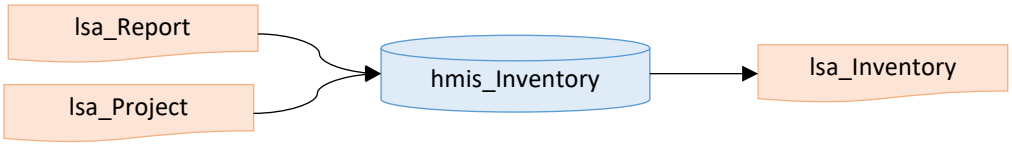
There must be exactly one ProjectCoC record for every *ProjectID* included in Project.csv. Export only records where *CoCCode* = ReportCoC.

The HMIS CSV allows NULL values for *Geocode*, *ZIP* and *GeographyType.* However, they are mandatory for the LSA and upload validation will fail if those columns do not contain valid values.

Populate **ExportID** with LSAReport.**ReportID***;* the data type for **ExportID** is a string, so **ReportID** must be converted appropriately.

UserID may be exported as NULL; regardless of value, it will not be imported into the HDX 2.0.

4.5. Get Inventory.csv Records / lsa_Inventory



Records exported to Inventory.csv are included in the LSA output and uploaded to HDX 2.0.

LSA business logic does not utilize Inventory data beyond the export of records.

Relevant Data

Source

lsa_Report
ReportStart

ReportEnd
ReportCoC
lsa_Project
ProjectID
hmis_Inventory
(all columns – see below)

Target

HDX 2.0 validation of Inventory.csv is generally consistent with the HMIS CSV specifications; differences are noted in the column descriptions below.

lsa_Inventory	Column Description
InventoryID	(See HMIS CSV documentation)
ProjectID	(See HMIS CSV documentation)
CoCCode	(See HMIS CSV documentation)
HouseholdType	In (1,3,4)
Availability	NULL unless Project.*ProjectType* = 1; otherwise, in (1,2,3)
UnitInventory	(See HMIS CSV documentation)
BedInventory	(See HMIS CSV documentation)
CHVetBedInventory	Not NULL
YouthVetBedInventory	Not NULL
VetBedInventory	Not NULL
CHYouthBedInventory	Not NULL
YouthBedInventory	Not NULL
CHBedInventory	Not NULL
OtherBedInventory	Not NULL
ESBedType	NULL unless Project.*ProjectType* = 1; otherwise, in (1,2,3)
InventoryStartDate	< ReportEnd
InventoryEndDate	NULL or >= ReportStart
DateCreated	(See HMIS CSV documentation)
DateUpdated	(See HMIS CSV documentation)
UserID	n/a - will not be imported
DateDeleted	NULL
ExportID	Must match LSAReport.**ReportID**

Logic

There must be at least one Inventory record for every *ProjectID* included in Project.csv. Export all records where:

- *CoCCode* = ReportCoC
- *InventoryEndDate* is NULL or (*InventoryEndDate* >= ReportStart and > *InventoryEndDate* > *InventoryStartDate*)

The HMIS CSV allows NULL values for *CHVetBedInventory*, *YouthVetBedInventory*, *VetBedInventory*, *CHYouthBedInventory*, *YouthBedInventory*, *CHBedInventory*, and *OtherBedInventory*. They are mandatory for the LSA and upload validation will fail if those columns do not have valid non-NULL values.

Populate *ExportID* with LSAReport.**ReportID***;* the data type for *ExportID* is a string, so values must be padded with quotes.

UserID may be exported as NULL; regardless of its value, it will not be imported into the HDX 2.0.

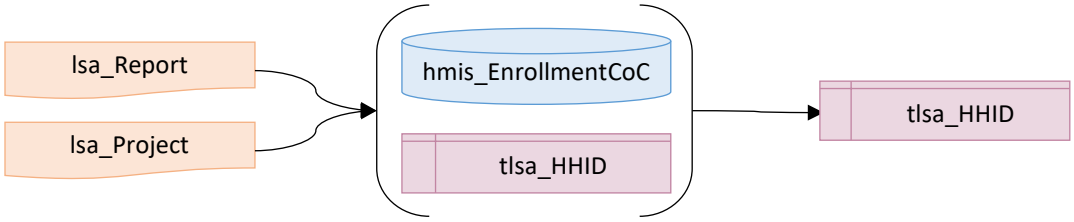
5. HMIS Business Logic: LSAPerson

The data type for every column in LSAPerson is integer; no value may be NULL.

#	Column Name	Notes
1	**RowTotal**	A count of distinct PersonalIDs for active clients, grouped by all values in the other columns. Must be > 0.
2	**Gender**	See 5.4 LSAPerson Demographics
3	**Race**	See 5.4 LSAPerson Demographics
4	**Ethnicity**	See 5.4 LSAPerson Demographics
5	**VetStatus**	See 5.4 LSAPerson Demographics
6	**DisabilityStatus**	See 5.4 LSAPerson Demographics
7	**CHTime**	See 5.5 Time Spent in ES/SH or on the Street through 5.10 CHTime and CHTimeStatus
8	**CHTimeStatus**	See 5.5 Time Spent in ES/SH or on the Street through 5.10 CHTime and CHTimeStatus
9	**DVStatus**	See 5.4 LSAPerson Demographics
10	**ESTAgeMin**	See 5.11 EST/RRH/PSHAgeMin and EST/RRH/PSHAgeMax
11	**ESTAgeMax**	See 5.11 EST/RRH/PSHAgeMin and EST/RRH/PSHAgeMax
12	**HHTypeEST**	See 5.12 HHTypeEST/RRH/PSH
13	**HoHEST**	See 5.13 HoHEST/RRH/PSH
14	**AdultEST**	See 5.15 AdultEST/RRH/PSH
15	**HHChronicEST**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
16	**HHVetEST**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
17	**HHDisabilityEST**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
18	**HHFleeingDVEST**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
19	**HHAdultAgeAOEST**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
20	**HHAdultAgeACEST**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
21	**HHParentEST**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
22	**AC3PlusEST**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
23	**AHAREST**	See 5.14 AHAREST/RRH/PSH
24	**AHARHoHEST**	See 5.16 AHARHoHEST/RRH/PSH
25	**RRHAgeMin**	See 5.11 EST/RRH/PSHAgeMin and EST/RRH/PSHAgeMax
26	**RRHAgeMax**	See 5.11 EST/RRH/PSHAgeMin and EST/RRH/PSHAgeMax
27	**HHTypeRRH**	See 5.12 HHTypeEST/RRH/PSH
28	**HoHRRH**	See 5.13 HoHEST/RRH/PSH
29	**AdultRRH**	See 5.15 AdultEST/RRH/PSH
30	**HHChronicRRH**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households

#	Column Name	Notes
31	**HHVetRRH**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
32	**HHDisabilityRRH**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
33	**HHFleeingDVRRH**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
34	**HHAdultAgeAORRH**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
35	**HHAdultAgeACRRH**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
36	**HHParentRRH**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
37	**AC3PlusRRH**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
38	**AHARRRH**	See 5.14 AHAREST/RRH/PSH
39	**AHARHoHRRH**	See 5.16 AHARHoHEST/RRH/PSH
40	**PSHAgeMin**	See 5.11 EST/RRH/PSHAgeMin and EST/RRH/PSHAgeMax
41	**PSHAgeMax**	See 5.11 EST/RRH/PSHAgeMin and EST/RRH/PSHAgeMax
42	**HHTypePSH**	See 5.12 HHTypeEST/RRH/PSH
43	**HoHPSH**	See 5.13 HoHEST/RRH/PSH
44	**AdultPSH**	See 5.15 AdultEST/RRH/PSH
45	**HHChronicPSH**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
46	**HHVetPSH**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
47	**HHDisabilityPSH**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
48	**HHFleeingDVPSH**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
49	**HHAdultAgeAOPSH**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
50	**HHAdultAgeACPSH**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
51	**HHParentPSH**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
52	**AC3PlusPSH**	See 5.17 Set Population Identifiers for Active HMIS Households and 5.18 Set Population Identifers for LSAPerson from Active Households
53	**AHARPSH**	See 5.14 AHAREST/RRH/PSH
54	**AHARHoHPSH**	See 5.16 AHARHoHEST/RRH/PSH
55	**ReportID**	Must match ReportID in LSAReport; see 4.1 Report Metadata for LSAReport

5.1. Get Active HouseholdIDs



This section defines the logic associated with identifying enrollments for heads of household that meet the criteria for inclusion in the active cohort.

It uses data in lsa_Report and lsa_Project as parameters applied to tlsa_HHID and hmis_EnrollmentCoC. As described, the **Active** column in tlsa_HHID is set to 1 for each active *HouseholdID*.

References to active **HouseholdID**s and/or any of the columns included in tlsa_HHID mean records where **Active** = 1 and the column values as they are set in this and subsequent steps.

Relevant Data

Source

lsa_Report
ReportStart
ReportEnd
ReportCoC
lsa_Project
ProjectID
tlsa_HHID
EnrollmentID
EntryDate
ExitDate
hmis_EnrollmentCoC
EnrollmentID
InformationDate
CoCCode

Target

The logic associated with values for columns with names in **bold** below is described in this step. The business logic associated with other columns is described in subsequent steps.

tlsa_HHID	Column Description
Active	1 identifies HouseholdIDs included in the active cohort

Logic

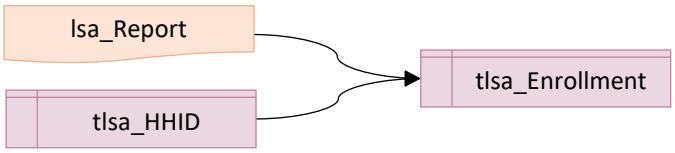
Record Selection

Active households are those tlsa_HHID.**HouseholdID**s where :

- There is a record for the **ProjectID** in lsa_Project; and
- **EntryDate** <= ReportEnd; and
- **ExitDate** is NULL or **ExitDate** >= ReportStart; and

- hmis_EnrollmentCoC.*CoCCode* = ReportCoC for the most recent EnrollmentCoC record where *InformationDate* <= ReportEnd
    - The core selection criteria for tlsa_HHID requires only that there is at least one EnrollmentCoC record for ReportCoC and not that it be the most recent.

5.2. Get Active Enrollments



This section defines the logic associated with identifying all active enrollments associated with the active *HouseholdID*s identified in the previous step.

It uses data in lsa_Report and tlsa_HHID as parameters applied to tlsa_Enrollment and sets the **Active** column in tlsa_Enrollment to 1 for active enrollments.

References in subsequent sections to active enrollments and of the columns in tlsa_Enrollment mean the column values as they are set in this and subsequent steps.

Relevant Data

Source

tlsa_HHID
HouseholdID
Active
tlsa_Enrollment
EnrollmentID
HouseholdID
ExitDate

Target

The logic associated with values for columns with names in **bold** below is described in this step. The business logic associated with other columns is described in subsequent steps.

tlsa_Enrollment
Active

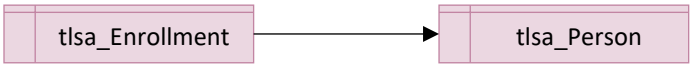
Logic

Record Selection

Active = 1 is set to identify the subset of enrollments in tlsa_Enrollment where:

- The **HouseholdID** matches a **HouseholdID** in tlsa_HHID (HHID) where **Active** = 1
- **ExitDate** is NULL or **ExitDate** >= ReportStart

5.3. Get Active Clients for LSAPerson



The tlsa_Person data construct holds one record for each distinct *PersonalID* in tlsa_Enrollment where **Active** = 1. It is a client-level version of the aggregate LSAPerson data and is used to set values for each LSA reporting category – **Gender**, **Race**, etc. – for each client. It includes all columns from LSAPerson.csv other than **RowTotal** and **ReportID**, as well as several columns which are used as a reference to simplify business logic but do not correlate to a column in LSAPerson.

Relevant Data

Source

tlsa_Enrollment
PersonalID
Active

Target

The logic associated with values for columns with names in **bold** below is described in this step. The business logic associated with other columns is described in subsequent steps.

tlsa_Person	Column Description
PersonalID	Distinct **PersonalID**s tlsa_Enrollment where **Active** = 1 The count of **PersonalID**s, grouped by the values in all other columns, is used to populate the **RowTotal** column of LSAPerson.
HoHAdult	(Does not correlate to a column in LSAPerson.csv) Identifies whether the client was served as an adult, a head of household, or both for any active enrollment (0 = No, 1 = Adult, 2=HoH, 3 = Adult and HoH); used to simplify later steps. See section 5.4 LSAPerson Demographics
CHStart	(Does not correlate to a column in LSAPerson.csv) Where **HoHAdult** > 0: [**LastActive** – 3 years + 1 day]; used to calculate **CHTime**. See section 5.5 Time Spent in ES/SH or on the Street – LSAPerson.
LastActive	(Does not correlate to a column in LSAPerson.csv) Where **HoHAdult** > 0, the client's last active date in the report period; used to calculate **CHTime.** See section 5.5 Time Spent in ES/SH or on the Street – LSAPerson.
Gender	Gender for adults and heads of household; not applicable (value = -1) for non-HoH children See section 5.4 LSAPerson Demographics
Race	Race for adults and heads of household; not applicable (value = -1) for non-HoH children See section 5.4 LSAPerson Demographics
Ethnicity	Ethnicity for adults and heads of household; not applicable (value = -1) for non-HoH children See section 5.4 LSAPerson Demographics
VetStatus	Veteran Status for adults; not applicable (value = -1) for children See section 5.4 LSAPerson Demographics
DisabilityStatus	Disability Status for adults and heads of household based on records of *3.08 Disabling Condition* for all active enrollments; not applicable (value = -1) for non-HoH children See section 5.4 LSAPerson Demographics

tlsa_Person	Column Description
CHTime	For adults and heads of household, the total number of days in ES/SH or on the street in the three years prior to the client's last active date in the report period. Based on data from active and inactive enrollments, the count of days excludes any dates when clients were enrolled in continuum TH projects or housed in RRH/PSH, but otherwise includes: • Dates between entry and exit in continuum entry-exit ES and SH projects; and • Bed-night dates in night-by-night shelters; and • Dates between 3.917 *DateToStreetESSH* and *EntryDate* for ES/SH/TH/RRH/PSH projects; and • Dates between any RRH/PSH EntryDate and the earlier of MoveInDate or ExitDate when LivingSituation is ES/SH/Street; or • For people who do not meet the time criteria for chronic homelessness based on the above, may be set based on 3.917 number of months and number of times homeless in the past three years from ES/SH/TH/RRH/PSH enrollments with entry dates in the year ending on the client's last active date. See sections 5.5-5.10 for associated business logic.
CHTimeStatus	For clients with 365+ days of ES/SH/Street time in the three years prior to their last active date (**CHTime**), specifies whether the dates are grouped so that the client meets the time criteria for chronic homelessness. Otherwise not applicable. See sections 5.5-5.10 for associated business logic.
DVStatus	DV Status for adults and heads of household based on records of 4.11 Domestic Violence for all active enrollments; not applicable (value = -1) for non-HoH children See section 5.4 LSAPerson Demographics
ESTAgeMin	The person's minimum age at the later of ReportStart and *EntryDate* for any active ES/SH/TH enrollment.
ESTAgeMax	The person's maximum age at the later of ReportStart and *EntryDate* for any active ES/SH/TH enrollment.
HHTypeEST	Identifies household types, if any, in which the person was served in the ES/SH/TH project group.
HoHEST	Identifies household types, if any, in which the person was served in the ES/SH/TH project group as a head of household
AdultEST	Identifies household types, if any, in which the person was served in the ES/SH/TH project group as an adult
HHChronicEST	Population identifier; the combination of household types in which the person was served in ES/SH/TH projects in household with a chronically homeless adult or HoH.
HHVetEST	Population identifier; the combination of household types in which the person was served in ES/SH/TH projects in household with a veteran.
HHDisabilityEST	Population identifier; the combination of household types in which the person was served in ES/SH/TH projects in household with a disabled adult or HoH.
HHFleeingDVEST	Population identifier; the combination of household types in which the person was served in ES/SH/TH projects in household with an adult or HoH fleeing domestic violence.
HHAdultAgeAOEST	Population identifier based on the combination of adult household members' ages for ES/SH/TH clients served in AO households.
HHAdultAgeACEST	Population identifier based on the combination of adult household members' ages for ES/SH/TH clients served in AC households.

tlsa_Person	Column Description
HHParentEST	Population identifier; the combination of household types in which the person was served in ES/SH/TH projects in a household that includes at least one member whose RelationshipToHoH is 'Child'.
AC3PlusEST	Population identifier; indicates whether or not the person was served in ES/SH/TH projects in an AC household with 3 or more household members under 18.
AHAREST	The combination of household types in which the person was part of the AHAR universe for ES/SH/TH (i.e., active in the report period other than an exit on ReportStart).
AHARHoHEST	The combination of household types in which the person was part of the AHAR universe for ES/SH/TH (i.e., active in the report period other than an exit on ReportStart) as head of household.
RRHAgeMin	The person's minimum age at the later of ReportStart and *EntryDate* for any active RRH enrollment.
RRHAgeMax	The person's maximum age at the later of ReportStart and *EntryDate* for any active RRH enrollment.
HHTypeRRH	Identifies household types, if any, in which the person was served in an RRH project.
HoHRRH	Identifies household types, if any, in which the person was served in an RRH project as a head of household
AdultRRH	Identifies household types, if any, in which the person was served in an RRH project as an adult
HHChronicRRH	Population identifier; the combination of household types in which the person was served an RRH project in household with a chronically homeless adult or HoH.
HHVetRRH	Population identifier; the combination of household types in which the person was served an RRH project in household with a veteran.
HHDisabilityRRH	Population identifier; the combination of household types in which the person was served an RRH project in household with a disabled adult or HoH.
HHFleeingDVRRH	Population identifier; the combination of household types in which the person was served an RRH project in household with an adult or HoH fleeing domestic violence.
HHAdultAgeAORRH	Population identifier based on the combination of adult household members' ages for RRH clients served in AO households.
HHAdultAgeACRRH	Population identifier based on the combination of adult household members' ages for RRH clients served in AO households.
HHParentRRH	Population identifier; the combination of household types in which the person was served an RRH project in a household that includes at least one member whose RelationshipToHoH is 'Child'.
AC3PlusRRH	Population identifier; indicates whether or not the person was served an RRH project in an AC household with 3 or more household members under 18.
AHARRRH	The combination of household types in which the person was part of the AHAR universe for RRH (i.e., has at least one bed night in the report period).
AHARHoHRRH	The combination of household types in which the person was part of the AHAR universe for RRH (i.e., has at least one bed night in the report period) as head of household.
PSHAgeMin	The person's minimum age at the later of ReportStart and *EntryDate* for any active PSH enrollment.
PSHAgeMax	The person's maximum age at the later of ReportStart and *EntryDate* for any active PSH enrollment.

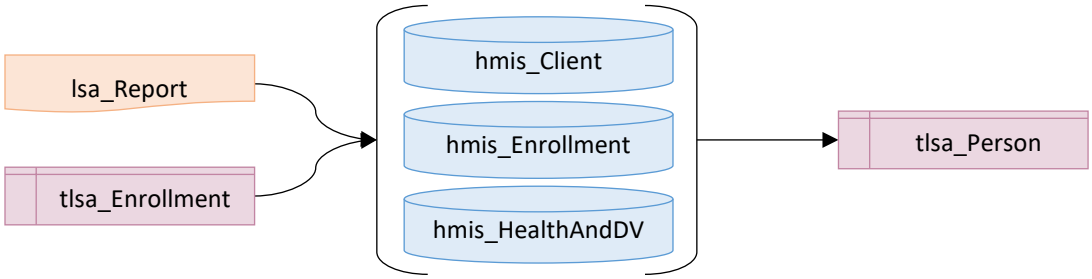
tlsa_Person	Column Description
HHTypePSH	Identifies household types, if any, in which the person was served in an PSH project.
HoHPSH	Identifies household types, if any, in which the person was served in an PSH project as a head of household
AdultPSH	Identifies household types, if any, in which the person was served in an PSH project as an adult
HHChronicPSH	Population identifier; the combination of household types in which the person was served an PSH project in household with a chronically homeless adult or HoH.
HHVetPSH	Population identifier; the combination of household types in which the person was served an PSH project in household with a veteran.
HHDisabilityPSH	Population identifier; the combination of household types in which the person was served an PSH project in household with a disabled adult or HoH.
HHFleeingDVPSH	Population identifier; the combination of household types in which the person was served an PSH project in household with an adult or HoH fleeing domestic violence.
HHAdultAgeAOPSH	Population identifier based on the combination of adult household members' ages for PSH clients served in AO households.
HHAdultAgeACPSH	Population identifier based on the combination of adult household members' ages for PSH clients served in AO households.
HHParentPSH	Population identifier; the combination of household types in which the person was served an PSH project in a household that includes at least one member whose RelationshipToHoH is 'Child'.
AC3PlusPSH	Population identifier; indicates whether or not the person was served an PSH project in an AC household with 3 or more household members under 18.
AHARPSH	The combination of household types in which the person was part of the AHAR universe for PSH (i.e., has at least one bed night in the report period).
AHARHoHPSH	The combination of household types in which the person was part of the AHAR universe for PSH (i.e., has at least one bed night in the report period) as head of household.

Logic

LSAPerson is the source for demographic reporting produced by the HDX 2.0. Every active client is counted in a single row of LSAPerson. Counts in **RowTotal** are grouped by the values in all of the other columns. The sum of **RowTotal** values is the total number of clients in the active cohort.

In the intermediate client-level tlsa_Person, each active client is represented by a single row with *PersonalID* as the primary key.

5.4. LSAPerson Demographics



This step defines the logic associated with LSA reporting on personal characteristics – broadly referred to as demographics – for each active adult/head of household in tlsa_Person.

It uses data in lsa_Report and active tlsa_Enrollment records as parameters applied to hmis_Client, hmis_Enrollment, and hmis_HealthAndDV. These data are used to set LSA reporting category values in tlsa_Person.

Relevant Data

Source

lsa_Report
ReportStart
tlsa_Enrollment
PersonalID
RelationshipToHoH
ActiveAge
Disability Status
DVStatus
hmis_Client
PersonalID
Gender
AmIndAKNative
Asian
BlackAfAmerican
NativeHIOtherPacific
White
RaceNon
Ethnicity
VeteranStatus

Target

See section 5.3 Get Active Clients for LSAPerson for column descriptions.

tlsa_Person
HoHAdult
Gender
Race
Ethnicity
VetStatus
DisabilityStatus
DVStatus

Logic

HoHAdult

HoHAdult is used to indicate whether the client was served as an adult, a head of household, or both adult and HoH. Children and people of unknown age who were not served as heads of household are included in reporting on age and in population counts of people, but are not included in other demographic counts. There is no parallel **HoHAdult** column in the LSAPerson file, but it is useful in identifying which columns/records to update.

Value	Category
0	Not HoH or Adult
1	Adult

Value	Category
2	HoH
3	Adult and HoH

Gender

Assign a value of -1 for all non-heads of household under 18 or of unknown age (**HoHAdult** = 0).

Crosswalk HMIS *Gender* values for adults and heads of household as follows:

HMIS Value	HMIS Category	LSA Value	LSA Category
0	Female	1	Female
1	Male	2	Male
2	Trans Female (MTF or Male to Female)	3	Transgender
3	Trans Male (FTM or Female to Male)	3	Transgender
4	Gender non-conforming	4	Gender non-conforming
8	Client doesn't know	98	Client doesn't know/refused
9	Client refused	98	Client doesn't know/refused
(any other)	Any other, including NULL	99	Missing/invalid

Race

Assign a value of -1 for all non-heads of household under 18 or of unknown age (**HoHAdult** = 0).

Crosswalk HMIS *Race* values for adults and heads of household in the following priority order:

Priority	HMIS Race Values	LSA Value	LSA Category
1	Regardless of any other data *Client doesn't know* (8) or *Client refused* (9)	98	Client doesn't know/refused
2	Regardless of any other race data *Data not collected* (99) or NULL	99	Missing/invalid
3	Two or more *Race* values selected	6	Multiple Races
4	*White* (5) (only) and Ethnicity <> 1	0	White, non-Hispanic/Latino
4	*White* (5) (only) and Ethnicity = 1 (Hispanic/Latino)	1	White, Hispanic/Latino
4	*Black or African American* (3) (only)	2	Black or African American
4	*Asian* (2) (only)	3	Asian
4	*American Indian or Alaska Native* (1) (only)	4	American Indian or Alaska Native
4	*Native Hawaiian or Other Pacific Islander* (4) (only)	5	Native Hawaiian / Other Pacific Islander

Ethnicity

Assign a value of -1 for all non-heads of household under 18 or of unknown age (**HoHAdult** = 0).

Crosswalk HMIS *Ethnicity* values for adults and heads of household as follows:

HMIS Value	HMIS Category	LSA Value	LSA Category
0	Non-Hispanic/Latino	0	Non-Hispanic/Latino
1	Hispanic/Latino	1	Hispanic/Latino
8	Client doesn't know	98	Client doesn't know/refused
9	Client refused	98	Client doesn't know/refused
(any other)	Any other, including NULL	99	Unknown

VetStatus

Assign a value of -1 for all clients under 18 or of unknown age (**HoHAdult** = in (0,2)).

Crosswalk HMIS *VeteranStatus* values for adults as follows:

HMIS Value	HMIS Category	LSA Value	LSA Category
0	No	0	Not a veteran
1	Yes	1	Veteran
8	Client doesn't know	98	Client doesn't know/refused
9	Client refused	98	Client doesn't know/refused
(any other)	Any other, including NULL	99	Missing

DisabilityStatus

Assign a value of -1 for all non-heads of household under 18 or of unknown age (**HoHAdult** = 0).

DisablingCondition is an enrollment-level data element in HMIS, but is reported as a person-level characteristic in the LSA. Set the value of tlsa_Person.**DisabilityStatus** to the first LSA Value in the table below where tlsa_Enrollment.**DisabilityStatus** for any active enrollment matches.

Priority	tlsa_Enrollment.DisabilityStatus	tlsa_Person.DisabilityStatus	LSA Category
1	Yes (1)	1	Disabled
2	No (0)	0	Not disabled
3	(Any other)	99	Unknown

DVStatus

Assign a value of -1 for all non-heads of household under 18 or of unknown age (**HoHAdult** = 0).

DomesticViolenceVictim is an enrollment-level data element in HMIS, but is reported as a person-level characteristic in the LSA. Set the value of of tlsa_Person.**DVStatus** to the first LSA Value in the table below where tlsa_Enrollment.**DVStatus** for any active enrollment matches.

Priority	tlsa_Enrollment.DVStatus	tlsa_Person.DVStatus	LSA Category
1	1	1	DV victim, currently fleeing
2	2	2	DV victim, not currently fleeing
3	3	3	DV victim, unknown if currently fleeing
4	10	0	Not a victim of domestic violence
5	98	98	Client doesn't know/refused
6	NULL	99	Missing/invalid

5.5. Time Spent in ES/SH or on the Street – LSAPerson

The definition of *chronically homeless* specifies the total length of time spent either in a place not meant for human habitation, a safe haven, or in an emergency shelter relevant to chronic homelessness in months: "continuously for at least 12 months" or on four or more occasions for a total of "at least 12 months" within a timeframe of 3 years.

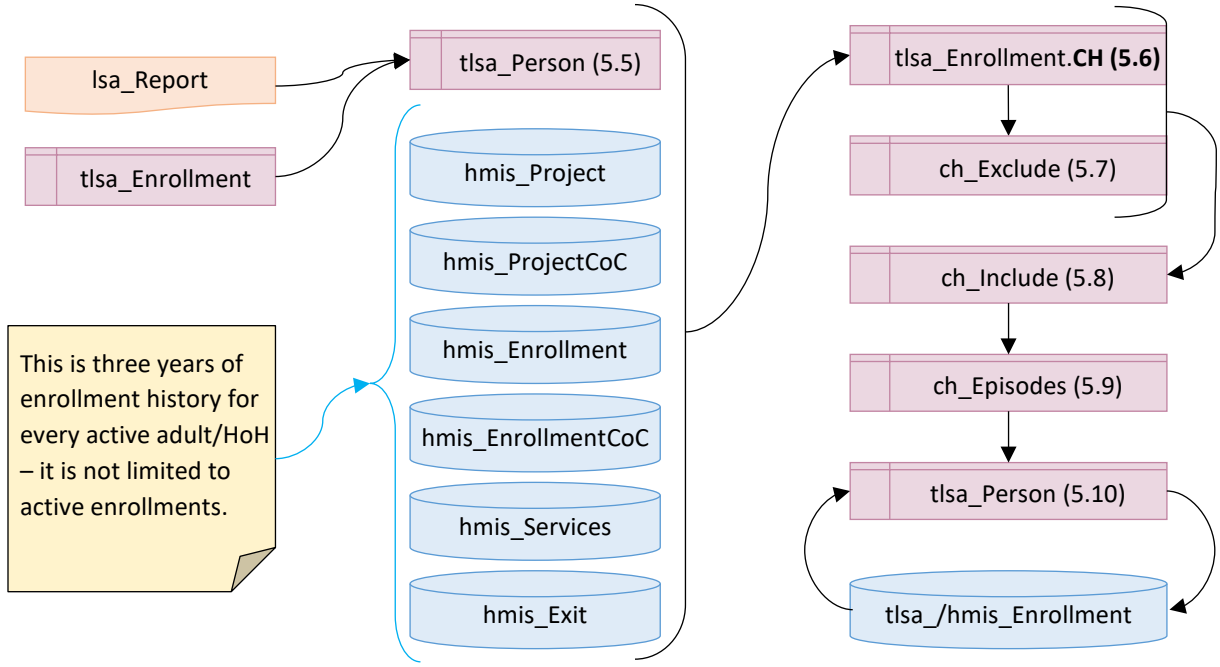
Specific to the LSA:

- All time related to chronic homelessness is counted in days, i.e., "continuously for at least 365 days" or "in four or more episodes for a total of at least 365 days";
- The three-year timeframe for any given client ends on their last active date in the report period, i.e., it is specific to the client; and

- The count of days is based on a combination of *3.917(A or B) Living Situation* data and entry/exit dates for enrollments in HMIS-participating ES/SH/TH/RRH/PSH projects.

Although a person must have a disabling condition in order to be considered chronically homeless, the LSA includes reporting on time spent in places not meant for habitation, safe haven, and/or emergency shelter for all heads of household and adults, regardless of the value in **DisabilityStatus**. It is based on constructing a timeline of activity for each person in tlsa_Person based on HMIS enrollment data in the three years ending on the client's most recent active date in the report period. This will include active enrollments and, for people with relevant enrollments prior to the report period, inactive enrollments.

The relevant columns in LSAPerson – and in tlsa_Person – are **CHTime** and **CHTimeStatus**. Because of the complexity, the business logic is broken out into five separate steps defined beginning with this section (5.5) and concluding with section 5.10. Section numbers associated with each step are shown below in the graphic for the relevant data construct.



This section defines how to identify the start (**CHStart**) and end (**LastActive**) dates for the three year period for each adult/HoH in tlsa_Person based on report parameters in lsa_Report.

Section 5.6 describes which HMIS enrollments active in that three-year period are relevant. This includes but is not limited to active enrollments for clients with relevant activity prior to the report period. As described, these are identified in tlsa_Enrollment by setting **CH** = 1.

Section 5.7 defines the logic for establishing, for each adult/HoH in tlsa_Person, a list of dates on which TH/RRH/PSH enrollment data indicates that the client was NOT on the street or in ES/SH. As described, records of individual dates are inserted to ch_Exclude.

Section 5.8 specifies how to build, for each adult/HoH in tlsa_Person, a list of ES/SH/Street dates based on ch_Enrollment in conjunction with ch_Exclude. As described, records of individual dates are inserted to ch_Include.

Section 5.9 describes the business logic associated with identifying 'occasions' or an 'episodes' – and the length in days for each – given a list of ES/SH/Street dates for a person. As described, this is accomplished by creating records of episodes in ch_Episode with start and end dates based on ch_Exclude.

Finally, Section 5.10 describes how to set LSA reporting category values in tlsa_Person for **CHTime** and **CHTimeStatus** based on a list of episodes with start and end dates (ch_Episodes) and, for any adult/HoH who does not meet the time-based criteria for chronic homelessness and is missing relevant *3.917 Living Situation* data, update the initial values to reflect missing data.

Relevant Data

Source

lsa_Report
ReportEnd
tlsa_Enrollment
EnrollmentID
PersonalID
ExitDate
tlsa_HHID
LastBedNight
tlsa_Person
HoHAdult

Target

See section 5.3 Get Active Clients for LSAPerson for column descriptions.

tlsa_Person
CHStart
LastActive

Logic

The three-year timeframe for each head of household/adult – the CH date range – is identified in tlsa_Person with dates in the **CHStart** and **LastActive** columns.

The last active date for any given enrollment is:

- For a night-by-night shelter, the earlier of ReportEnd or [**LastBedNight** + 1 day]; and
- For any other project type, the first non-NULL of **ExitDate** and ReportEnd.

LastActive for each record in tlsa_Person where **HoHAdult** > 0 is the latest active date based on all enrollments.

CHStart is (**LastActive** – 3 years) + 1 day.

5.6. Enrollments Relevant to Counting ES/SH/Street Dates

Relevant Data

Source

lsa_Report
ReportEnd
ReportCoC
tlsa_Person
PersonalID
HoHAdult
CHStart
LastActive

tlsa_Enrollment
EntryDate
ExitDate

Target

tlsa_Enrollment
CH

Logic

Enrollments relevant to determining whether or not a person meets the time criteria for chronic homelessness include active and inactive enrollments from tlsa_Enrollment where:

- tlsa_Person.**HoHAdult** > 0 (chronic homelessness is only reported for adults and heads of household)
- **PersonalID** = tlsa_Person.**PersonalID**
- **EntryDate** <= **LastActive**
- **ExitDate** is NULL or **ExitDate** > **CHStart**

5.7. Get Dates to Exclude from Counts of ES/SH/Street Days (ch_Exclude)

Relevant Data

Source

tlsa_Person
CHStart
LastActive
tlsa_Enrollment
PersonalID
ProjectType
EntryDate
MoveInDate
ExitDate
CH

Target

ch_Exclude	Column Description
PersonalID	**PersonalID**
ExcludeDate	Distinct dates between **CHStart** and **LastActive** when client was either in TH or housed in RRH/PSH.

Logic

Any date on which a client was either in TH or housed in RRH/PSH – i.e., known to be in a place other than one not meant for human habitation, a safe haven, or in an emergency shelter – is generally excluded from the count of ES/SH/Street days, even if there is conflicting information – e.g., an ES enrollment active on the date. The only exception to this is for stays of less than seven days, and only if the dates fall between two dates less than seven days apart on which the client is otherwise documented as being on the street or in ES/SH.

To resolve potential data conflicts, dates on which a client is enrolled in TH or housed in RRH/PSH are excluded when identifying ES/SH/Street days based on ES/SH enrollment dates, bednights, and *3.917 Prior Living Situation* data. For dates between **CHStart** and **LastActive:**

- For any CH enrollment where **MoveInDate** is not NULL, all dates between **MoveInDate** and the earlier of (**ExitDate** – 1 day) or ReportEnd are excluded.
    - For RRH enrollments where **MoveInDate** = **ExitDate**, the **ExitDate** is also excluded.
- For any CH enrollment where **ProjectType** = 2 (TH), all dates between **EntryDate** and the earlier of (**ExitDate** – 1 day) or ReportEnd are excluded.

5.8. Get Dates to Include in Counts of ES/SH/Street Days (ch_Include)

Relevant Data

Source

tlsa_Person
PersonalID
CHStart
LastActive
tlsa_Enrollment
CH
PersonalID
EnrollmentID
ProjectType
TrackingMethod
EntryDate
MoveInDate
ExitDate
hmis_Enrollment
EnrollmentID
LivingSituation
LengthOfStay
PreviousStreetESSH
DateToStreetESSH
hmis_Services
EnrollmentID
BedNightDate (*DateProvided* where *RecordType* = 200)

Target

ch_Include	Column Description
PersonalID	**PersonalID**
ESSHStreetDate	Distinct dates between **CHStart** and **LastActive** when client was in ES/SH or on the street; also referred to as ES/SH/Street dates.

Logic

For each **PersonalID** in tlsa_Person, any date between **CHStart** and **LastActive** is counted as an **ESSHStreetDate** based on HMIS data if:

- The date is not excluded because the client was enrolled in a TH project or enrolled and housed in an RRH/PSH project (ch_Exclude.**ExcludeDate**); and
- The date is consistent with any set of criteria listed below based on tlsa_Enrollments where **CH** = 1.

Enrollment in Entry/Exit ES or SH

- **ProjectType** = 8 or (**ProjectType** = 1 and **TrackingMethod** = 0); and
- **ESSHStreetDate** >= (later of **EntryDate** and **CHStart)***;* and
- **ESSHStreetDate** < (earliest non-NULL value for **ExitDate** or [**LastActive** + 1 day])

Bed Nights in Night-by-Night ES

- **ProjectType** = 1 and **TrackingMethod** = 3; and
- **ESSHStreetDate** = *BedNightDate*
- *BedNightDate* >= 10/1/2012
- *BedNightDate* >= **EntryDate** for the associated enrollment
- tlsa_Enrollment.**ExitDate** is NULL or *BedNightDate* < tlsa_Enrollment.**ExitDate**

ES/SH/Street Dates from 3.917 Living Situation

For enrollments where **EntryDate** > **CHStart**, dates on which the client was on the street on in ES/SH based on 3.917 are included as **ESSHStreetDate**s if they have not already been excluded or included based on prior criteria.

- An **ESSHStreetDate** is counted for ES and SH projects (**ProjectType** in (1,8)) if:
  - *LivingSituation* in (1,18,16); and
  - **ESSHStreetDate** >= *DateToStreetESSH* and < **EntryDate.**
- For TH, PSH, and RRH projects (ProjectType in (2,3,13)), **ESSHStreetDate**s based on 3.917 are only counted if:
  - The client was in ES/SH or on the street prior to entry:
    - *LivingSituation* in (1,18,16); or
    - *LengthOfStay* in (10, 11) and *PreviousStreetESSH* = 1; or
    - *LivingSituation* in (4,5,6,7,15,25) and *LengthOfStay* in (2,3) and *PreviousStreetESSH* = 1
  - **ESSHStreetDate** >= *DateToStreetESSH*; and
    - **ProjectType** = 2 and **ESSHStreetDate** < **EntryDate**; or
    - **ProjectType** in (3,13) and
      - **ESSHStreetDate** < **MoveInDate**; or
      - **MoveInDate** is NULL and **ESSHStreetDate < ExitDate**; or
      - **MoveInDate** is NULL and **ExitDate** is NULL and **ESSHStreetDate <= LastActive**

Gaps of Less than Seven Days Between Two ES/SH/Street Dates

Any date that falls between two ES/SH/Street dates that have been identified using the criteria above and are less than 7 days apart is counted as a ES/SH/Street day.

- [Date] > [**ESSHStreetDate***1*]*;* and
- [Date] < [**ESSHStreetDate***2*]; and
- ([**ESSHStreetDate***1*] + 7 days) >= [**ESSHStreetDate***2*]

For example, if a client has *BedNightDate*s on June 1 and June 5 of the same year, the 3 dates between – June 2, 3, and 4 – are also counted as ES/SH/Street dates.

Note that gaps of less than 7 days between **ESSHStreetDate**s are counted as ES/SH/Street dates regardless of ch_Exclude dates.

5.9. Get ES/SH/Street Episodes (ch_Episodes)

(Sections 5.5-5.10 outline the logic associated with counting ES/SH/Street dates. See section 5.5 Time Spent in ES/SH or on the Street for an overview and graphic for the process.)

Relevant Data

Source

ch_Include
PersonalID
ESSHStreetDate

Target

ch_Episodes	Column Description
PersonalID	tlsa_Person
episodeStart	The first ES/SH/Street date in the series.
episodeEnd	The last ES/SH/Street date in the series.
episodeDays	The number of days between **episodeStart** and **episodeEnd.**

Logic

For purposes of the LSA, an 'episode' is a continuous – i.e., uninterrupted by any period of seven or more contiguous days — series of ES/SH/Street dates.

Each record in ch_Episodes represents an uninterrupted series of ES/SH/Street dates identified in the previous step. Based on ch_Include for each HoH/adult in tlsa_Person:

- **episodeStart** is any **ESSHStreetDate** where there is no (**ESSHStreetDate** – 1 day) for the same *PersonalID* – i.e., any ES/SH/Street date where there is no information to indicate that the client was in ES/SH or on the street on the day before.
- **episodeEnd** is the first **ESSHStreetDate** after **episodeStart** where (**ESSHStreetDate** + 1 day) does not exist
- **episodeDays** is the [number of days between **episodeStart** and **episodeEnd**] + 1 day

5.10. CHTime and CHTimeStatus – LSAPerson

(Sections 5.5-5.10 outline the logic associated with counting ES/SH/Street dates; this is the final step. See section 5.5 Time Spent in ES/SH or on the Street for an overview and graphic for the process.)

Relevant Data

Source

tsla_Person
PersonalID
HoHAdult
ch_Episodes
PersonalID
episodeStart
episodeEnd
episodeDays
tlsa_Enrollment
EnrollmentID
CH

PersonalID
ProjectType
hmis_Enrollment
PersonalID
EntryDate
LivingSituation
LengthOfStay
DateToStreetESSH
TimesHomelessPastThreeYears
MonthsHomelessPastThreeYears

Target

See section 5.3 Get Active Clients for LSAPerson for column descriptions.

tlsa_Person
CHTime
CHTimeStatus

Logic

There are a total of ten valid combinations of **CHTime** and **CHTimeStatus** values. They are summarized in the table below; detailed logic follows.

Priority	CHTime	CHTimeStatus	Category
1	-1	-1	n/a – tlsa_Person.**HoHAdult** = 0
2	365	1	Client has a ch_Episode where **episodeDays** >= 365 with an **episodeEnd** in the year ending on **LastActive**
3	365	2	Client has 4 or more episodes and the sum of **episodeDays** for all ch_Episodes is >= 365.
4	400	2	Based on 3.917 Living Situation for an enrollment with an *EntryDate* in the year ending on **LastActive**, client was on the street or in ES/SH for 12 or more months and in four or more episodes in three years.
5	365	3	The sum of **episodeDays** for all ch_Episodes is >= 365 but the number of episodes is less than four; no relevant information is missing from records of *3.917 Living Situation*.
5	365	99	The sum of **episodeDays** for all ch_Episodes is >= 365 but the number of episodes is less than four; relevant information is missing from records of *3.917 Living Situation.*
--	270	99	Client has a total of 270-364 ESSHStreet days and relevant data is missing from *3.917 Living Situation*
--	270	-1	Client has a total of 270-364 ESSHStreet days and is not missing any relevant *3.917 Living Situation* data
--	0	99	Client has a total of 0-269 ESSHStreet days and relevant data is missing from *3.917 Living Situation*
--	0	-1	Client has a total of 270-364 ESSHStreet days and is not missing any relevant *3.917 Living Situation* data

The conditions associated with valid combinations of **CHTime** and **CHTimeStatus** are not all mutually exclusive. **CHTime** and **CHTimeStatus** should be set for the first set of criteria met by records for each person.

1. Set **CHTime** and **CHTimeStatus** = -1 where **HoHAdult** = 0 (the client was not served as a head of household

or as an adult).

2. Set **CHTime** = 365 and **CHTimeStatus** = 1 when there is a single episode where:
   - ch_Episodes.**episodeDays** >= 365; and
   - ch_Episodes.**episodeEnd** > (**LastActive** – 1 year)
3. Set **CHTime** = 365 and **CHTimeStatus** = 2 where:
   - [SUM of ch_Episodes.**episodeDays**] >= 365; and
   - [COUNT of ch_Episodes] >= 4
4. Set **CHTime** = 400 (12 or more months in three years) and **CHTimeStatus** = 2 (4 or more episodes) where:
   - **CHTimeStatus** not in (1,2)
   - There is an enrollment in tlsa_Enrollment where **CH** = 1 and:
     - **EntryDate** > (**LastActive** – 1 year)
     - *TimesHomelessPastThreeYears* = 4 (Four or more times)
     - *MonthsHomelessPastThreeYears* in (112, 113) (12 or more than 12 months)
5. Set **CHTime** = 365 and **CHTimeStatus** = 3 where:
   - [SUM of ch_Episodes.**episodeDays**] >= 365; and
   - [COUNT of ch_Episodes] < 4
6. Set **CHTime = 270** and **CHTimeStatus** = -1 where [SUM of ch_Episodes.**episodeDays**] between 270 and 364
7. Set **CHTime = 0** and **CHTimeStatus** = -1 where [SUM of ch_Episodes.**episodeDays**] < 270

After these values are set, there is one additional update to **CHTimeStatus** to identify people who do not meet the time criteria for chronic homelessness and are missing relevant data (i.e., people who might meet the time criteria if data were complete). Set **CHTimeStatus** = 99 for all records in tlsa_Person where:

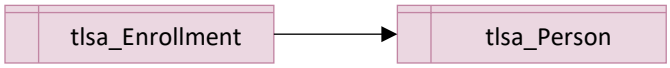
- **CHTime** in (0,270) – The total number of **ESSHStreetDate**s in the three years ending on **LastActive** is less than 365; or
- **CHTimeStatus** = 3 – The total number of **ESSHStreetDate**s in the three years ending on **LastActive** is at least 365, but they occur in fewer than four episodes;

AND there is at least one enrollment for the **PersonalID** in tlsa_Enrollment where **CH** = 1 and any of the following are true:

- *DateToStreetESSH* > **EntryDate**
- *LivingSituation* in (8,9,99) or is NULL
- *LengthOfStay* in (8,9,99) or is NULL
- **ProjectType** in (1,8) or *LivingSituation* in (1,16,18) and
  - *DateToStreetESSH* is NULL; or
  - *TimesHomelessPastThreeYears* in (8,9,99) or is NULL
  - *MonthsHomelessPastThreeYears* in (8,9,99) or is NULL
- **ProjectType** is not in (1,8) and
  - *LengthOfStay* in (2,3) and *LivingSituation* in (4,5,6,7,15,25) and
    - *PreviousStreetESSH* is NULL or *PreviousStreetESSH* not in (0,1); or
    - *PreviousStreetESSH* = 1 and
      - *DateToStreetESSH* is NULL; or
      - *TimesHomelessPastThreeYears* in (8,9,99) or is NULL
      - *MonthsHomelessPastThreeYears* in (8,9,99) or is NULL
  - *LengthOfStay* in (10,11) and

- *PreviousStreetESSH* is NULL or *PreviousStreetESSH* not in (0,1); or
- *PreviousStreetESSH* = 1 and
  - *DateToStreetESSH* is NULL; or
  - *TimesHomelessPastThreeYears* in (8,9,99) or is NULL
  - *MonthsHomelessPastThreeYears* in (8,9,99) or is NULL

5.11. EST/RRH/PSHAgeMin and EST/RRH/PSHAgeMax – LSAPerson



This section defines the logic associated with setting values for minimum and maximum age columns for each project group – EST, RRH, and PSH – for LSAPerson. These columns indicate:

- [**EST**/**RRH**/**PSH**]**AgeMin** – The client's minimum age at the later of ReportStart and **EntryDate** for any active [EST/RRH/PSH] enrollment.
- [**EST**/**RRH**/**PSH**]**AgeMax** – The client's maximum age at the later of ReportStart and **EntryDate** for any active [EST/RRH/PSH] enrollment.

Relevant Data

Source

tlsa_Enrollment
ProjectType
ActiveAge
Active

Target

See section 5.3 Get Active Clients for LSAPerson for column descriptions.

tlsa_Person
ESTAgeMin
ESTAgeMax
RRHAgeMin
RRHAgeMax
PSHAgeMin
PSHAgeMax

Logic

These values are reported for all active clients.

For any client not served in the EST project group – i.e., there is no active enrollment where **ProjectType** in (1,2,8) – set **ESTAgeMin** and **ESTAgeMax** to -1. Otherwise, based on tlsa_Enrollment records where **Active** = 1:

- **ESTAgeMin** = the smallest **ActiveAge** value where **ProjectType** in (1,2,8)
- **ESTAgeMax** = the largest **ActiveAge** value where **ProjectType** in (1,2,8)

For any client not served in RRH (i.e., there is no active enrollment where **ProjectType** = 13), set **RRHAgeMin** and **RRHAgeMax** to -1. Otherwise:

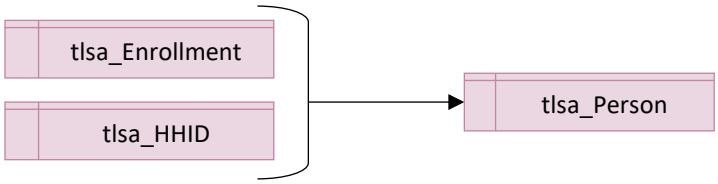
- **RRHAgeMin** = the smallest **ActiveAge** value where **ProjectType** = 13
- **RRHAgeMax** = the largest **ActiveAge** value where **ProjectType** = 13

For any client not served in PSH (i.e., there is no active enrollment where **ProjectType** = 3), set **PSHAgeMin** and **PSHAgeMax** to -1. Otherwise:

- **PSHAgeMin** = the smallest **ActiveAge** value where **ProjectType** = 3
- **PSHAgeMax** = the largest **ActiveAge** value where **ProjectType** = 3

Value	AgeGroup
-1	n/a – not served in project group
0	Less than 1 year
2	1 to 2 years
5	3 to 5 years
17	6 to 17 years
21	18 to 21 years
24	22 to 24 years
34	25 to 34 years
44	35 to 44 years
54	45 to 54 years
64	55 to 64 years
65	65 or older
98	Client doesn't know/refused
99	Missing/invalid

5.12. HHTypeEST/RRH/PSH - LSAPerson



The LSAPerson **HHTypeEST**, **HHTypeRRH**, and **HHTypePSH** columns indicate:

- Whether or not the client was served in the EST/RRH/PSH project group; and
- If served in the project group, the household type(s) in which the client was served.

Relevant Data

Source

tlsa_HHID
ActiveHHType
tlsa_Enrollment
ProjectType
Active

Target

See section 5.3 Get Active Clients for LSAPerson for column descriptions.

tlsa_Person
HHTypeEST
HHTypeRRH
HHTypePSH

Logic

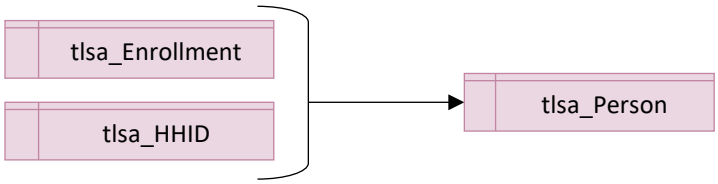
These columns are reported for all active clients.

Apart from identifying project groups, the logic for the **HHTypeEST** (**ProjectType** in (1,2,8)), **HHTypeRRH** (**ProjectType** = 13), and **HHTypePSH** (**ProjectType** = 13) columns is identical. The values represent the distinct combination of all household types in which the client was served for each given project group.

Based on the **ProjectType** and **ActiveHHType** values from tlsa_HHID and tlsa_Enrollment where **Active** = 1, report all household types as shown below:

HHTypeEST/RRH/PSH	Household Type(s) for Project Group	HHType(s)
-1	None - not served in project group	(n/a)
1	AO	1
2	AC	2
3	CO	3
9	UN	99
12	AO and AC	1 and 2
13	AO and CO	1 and 3
19	AO and UN	1 and 99
23	AC and CO	2 and 3
29	AC and UN	2 and 99
39	CO and UN	3 and 99
123	AO, AC, and CO	1,2, and 3
129	AO, AC, and UN	1,2, and 99
139	AO, CO, and UN	1,3, and 99
239	AC, CO, and UN	2,3, and 99
1239	AO, AC, CO, and UN	1,2,3,and 99

5.13. HoHEST/RRH/PSH



The LSAPerson **HoHEST**, **HoHRRH**, and **HoHPSH** columns indicate:

- Whether or not the client was served in the project group as a head of household; and
- If so, the household type(s) in which the client was served as a head of household.

The household types in these columns are a subset of the household types in the corresponding **HHTypeEST/RRH/PSH** columns. If **HHType[x]** is -1, **HoH[x]** must also equal -1.

Relevant Data

Source

tlsa_HHID
ActiveHHType
tlsa_Enrollment
ProjectType

RelationshipToHoH
Active

Target

See section 5.3 Get Active Clients for LSAPerson for column descriptions.

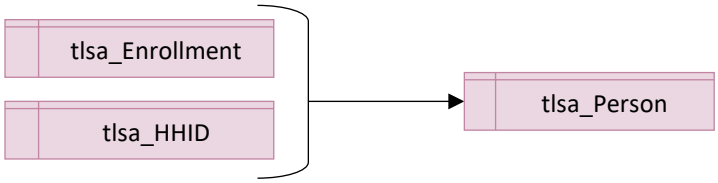
tlsa_Person
HoHEST
HoHRRH
HoHPSH

Logic

Apart from being limited to household types in which clients were designated head of household – i.e., tlsa_Enrollment.**RelationshipToHoH** = 1 – the logic for the **HoHEST**, **HoHRRH**, and **HoHPSH** columns is identical to the **HHTypeEST/RRH/PSH** columns.

See section 5.12 for business logic and column values.

5.14. AHAREST/RRH/PSH – LSAPerson



The LSAPerson **AHAREST**, **AHARRRH**, and **AHARPSH** columns indicate:

- Whether or not the client was active in residence – i.e., had at least one bed night – during the report period; and
- If so, the household type(s) for relevant enrollments.

The household types in these columns are a subset of the household types in the corresponding **HHTypeEST/RRH/PSH** columns. If **HHType[x]** is -1, **AHAR[x]** must also equal -1.

Relevant Data

Source

tlsa_HHID
ActiveHHType
tlsa_Enrollment
ProjectType
MoveInDate
ExitDate
Active

Target

tlsa_Person
AHAREST
AHARRRH
AHARPSH

Logic

The logic for these columns is specific to each project group.

AHAREST

Based on exit dates, include household types for active enrollments where:

- **ProjectType** in (1,2,8); and
  - **ExitDate** > ReportStart; or
  - **ExitDate** is NULL.

AHARRRH

Based on exit dates and move-in dates, include household types for active enrollments where:

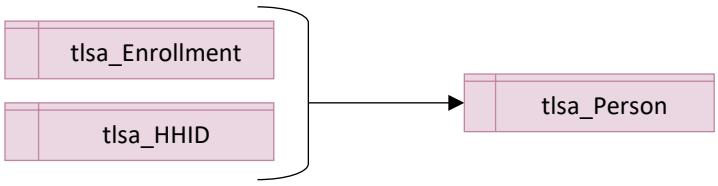
- **ProjectType** = 13; and
- **MoveInDate** <= ReportEnd; and
  - **ExitDate** > ReportStart; or
  - **ExitDate** is NULL; or
  - **ExitDate** = ReportStart and **MoveInDate** = ReportStart.

AHARPSH

Based on exit dates and move-in dates, include household types for active enrollments where:

- **ProjectType** = 3 and
- **MoveInDate** <= ReportEnd; and
  - **ExitDate** > ReportStart; or
  - **ExitDate** is NULL.

5.15. AdultEST/RRH/PSH - LSAPerson



The LSAPerson **AdultEST**, **AdultRRH**, and **AdultPSH** columns indicate:

- Whether or not the client was active in residence – i.e., had at least one bed night – as an adult during the report period; and
- If so, the household type(s) in which this occurred.

The household types in these columns are a subset of the household types in the corresponding **AHAREST/RRH/PSH** columns. If **AHAR[x]** is -1, **Adult[x]** must also equal -1.

Relevant Data

Source

tlsa_HHID
ActiveHHType
tlsa_Enrollment

ProjectType
MoveInDate
ExitDate
ActiveAge
Active

Target

tlsa_Person
AdultEST
AdultRRH
AdultPSH

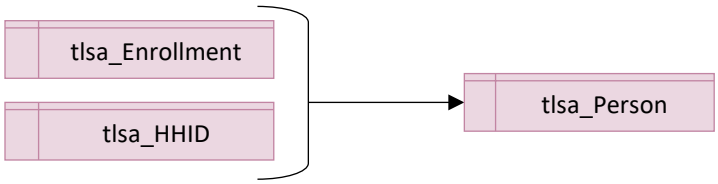
Logic

Apart from being limited to household types for enrollments where clients were over 18 – i.e., **ActiveAge** between 21 and 65 – the logic for the **AdultEST**, **AdultRRH**, and **AdultPSH** columns is identical to the **AHAREST/RRH/PSH** columns. See section 5.14 for business logic and project group values.

Because adults cannot occur in CO households, the list of possible household type combinations does not include them:

AdultEST/RRH/PSH	Household Type(s) for Project Group	HHType(s)
-1	None - not served in project group as an adult	(n/a)
1	AO	1
2	AC	2
9	UN	99
12	AO and AC	1 and 2
19	AO and UN	1 and 99
29	AC and UN	2 and 99
129	AO, AC, and UN	1, 2, and 99

5.16. AHARHoHEST/RRH/PSH



The LSAPerson **AHARHoHEST**, **AHARHoHRRH**, and **AHARHoHPSH** columns indicate:

- Whether or not the client was active in residence – i.e., have at least one bed night – as a head of household during the report period; and
- If so, the household type(s) for relevant enrollments.

The household types in these columns are a subset of the household types in the corresponding **AHAREST/RRH/PSH** columns and a subset of the corresponding **HoHEST/RRH/PSH** columns. If **AHAR[x]** or **HoH[x]** is -1, **AHARHoH[x]** must also equal -1.

These columns are also a subset of **HoHEST/RRH/PSH**.

Relevant Data

Source

tlsa_HHID
ActiveHHType
tlsa_Enrollment
ProjectType
RelationshipToHoH
MoveInDate
ExitDate
Active

Target

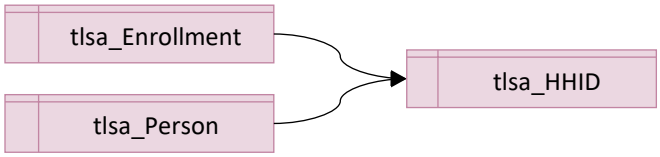
See section 5.3 Get Active Clients for LSAPerson for column descriptions.

tlsa_Person
AHARHoHEST
AHARHoHRRH
AHARHoHPSH

Logic

Apart from being limited to household types in which clients were designated head of household – i.e., tlsa_Enrollment.**RelationshipToHoH** = 1 – the logic for the **AHARHoHEST**, **AHARHoHRRH**, and **AHARHoHPSH** columns is identical to the **AHAREST/RRH/PSH** columns. See section 5.14 for business logic and column values.

5.17. Set Population Identifiers for Active HMIS Households



Relevant Data

Source

tlsa_Enrollment
PersonalID
HouseholdID
RelationshipToHoH
ActiveAge
Active
tlsa_Person
PersonalID
Gender
Race
Ethnicity
VetStatus
DisabilityStatus
CHTime

CHTimeStatus
DVStatus

Target

See section 5.3 Get Active Clients for LSAPerson for column descriptions.

tlsa_HHID
HHChronic
HHVet
HHDisability
HHFleeingDV
HHAdultAge
HHParent
AC3Plus

Logic

HHChronic

Limited to active household members (those with records in tlsa_Enrollment with the same **HouseholdID** where **Active** = 1):

Based on records in tlsa_Enrollment with the same **HouseholdID** where **Active** = 1:

HHChronic = 1 if the head of household or any adult in the household is reported for LSAPerson (in tlsa_Person) with **DisabilityStatus** = 1 and:

- **CHTime** = 365 and **CHTimeStatus** in (1,2); or
- **CHTime** = 400 and **CHTimeStatus** = 2

Otherwise, **HHChronic** = 0.

HHVet

Limited to active household members (those with records in tlsa_Enrollment with the same **HouseholdID** where **Active** = 1):

Based on records in tlsa_Enrollment with the same **HouseholdID** where **Active** = 1:

HHVet = 1 if **ActiveHHType** in (1,2,99) and any adult household member is reported for LSAPerson (in tlsa_Person) with **VetStatus** = 1.

Otherwise, **HHVet** = 0.

HHDisability

Limited to active household members (those with records in tlsa_Enrollment with the same **HouseholdID** where **Active** = 1):

HHDisability = 1 if the head of household or any adult in the household is reported for LSAPerson (in tlsa_Person) with **DisabilityStatus** = 1.

Otherwise, **HHDisability** = 0.

HHFleeingDV

Limited to active household members (those with records in tlsa_Enrollment with the same **HouseholdID** where **Active** = 1):

HHFleeingDV = 1 if the head of household or any adult in the household is reported for LSAPerson (in tlsa_Person) with **DVStatus** = 1.

Otherwise, **HHFleeingDV** = 0.

HHAdultAge

Set **HHAdultAge** for each active household to the upload value shown below based on the *first* of the criteria below met by the **ActiveAge** values in tlsa_Enrollment for all household members with the same **HouseholdID** where **Active** = 1:

Priority	Upload Value	Criteria
1	-1	The maximum of all **ActiveAge** values is >= 98 (one or more unknown ages)
1	-1	The maximum of all **ActiveAge** values is <= 17 (no adults in household)
2	18	The maximum of all **ActiveAge** values is 21 (all adults are between 18 and 21)
3	24	The maximum of all **ActiveAge** values is 24 (all adults are under 25)
4	55	The minimum of all **ActiveAge** values is between 55 and 65 (all members are 55+)
5	25	(all other households)

HHParent

Set **HHParent** = 1 if one or more active enrollments associated with the **HouseholdID** has **RelationshipToHoH** = 2.

Otherwise, **HHParent** = 0.

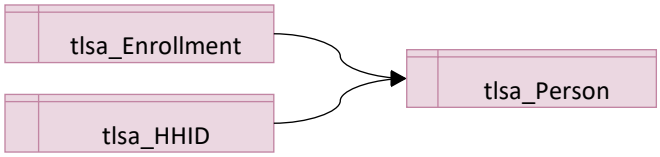
AC3Plus

Set **AC3Plus** = 1 if:

- **HHType** for the active household = 2 (AC); and
- The count of distinct **PersonalID**s from active enrollments associated with the **HouseholdID** where enrollment **ActiveAge** between 0 and 17 is >= 3.

Otherwise, **AC3Plus** = 0.

5.18. Set Population Identifiers for LSAPerson from Active Households



Relevant Data

Source

tlsa_Enrollment
PersonalID
HouseholdID

Active
tlsa_HHID
HouseholdID
ProjectType
HHChronic
HHVet
HHDisability
HHFleeingDV
HHAdultAge
HHParent
AC3Plus

Target

See section 5.3 Get Active Clients for LSAPerson for column descriptions.

tlsa_Person
PersonalID
HHChronicEST
HHVetEST
HHDisabilityEST
HHFleeingDVEST
HHAdultAgeAOEST
HHAdultAgeACEST
HHParentEST
AC3PlusEST
HHChronicRRH
HHVetRRH
HHDisabilityRRH
HHFleeingDVRRH
HHAdultAgeAORRH
HHAdultAgeACRRH
HHParentRRH
AC3PlusRRH
HHChronicPSH
HHVetPSH
HHDisabilityPSH
HHFleeingDVPSH
HHAdultAgeAOPSH
HHAdultAgeACPSH
HHParentPSH
AC3PlusPSH

Logic

HHChronicEST/RRH/PSH

Apart from being limited to household types in which clients were served in chronically homeless households – i.e., tlsa_HHID.**HHChronic** = 1 – the logic for the **HHChronicEST**, **HHChronicRRH**, and **HHChronicPSH** columns is identical to the **HHTypeEST/RRH/PSH** columns.

See section 5.12 for business logic and column values.

HHVetEST/RRH/PSH

Apart from being limited to household types in which clients were served in veteran households – i.e., tlsa_HHID.**HHVet** = 1 – the logic for the **HHVetEST**, **HHVetRRH**, and **HHVetPSH** columns is identical to the **HHTypeEST/RRH/PSH** columns.

See section 5.12 for business logic.

Because veterans must be adults (tlsa_Person.**VetStatus** = -1 for all non-adults), the list of possible household type combinations does not include CO households:

HHVetEST/RRH/PSH	Household Type(s) for Project Group	HHType(s)
-1	None - not served in project group in a veteran household	(n/a)
1	AO	1
2	AC	2
9	UN	99
12	AO and AC	1 and 2
19	AO and UN	1 and 99
29	AC and UN	2 and 99
129	AO, AC, and UN	1, 2, and 99

HHDisabilityEST/RRH/PSH

Apart from being limited to household types in which clients were served in households with a disabled head of household or adult – i.e., tlsa_HHID.**HHDisability** = 1 – the logic for the **HHDisabilityEST**, **HHDisabilityRRH**, and **HHDisabilityPSH** columns is identical to the **HHTypeEST/RRH/PSH** columns.

See 2 for business logic and column values.

HHFleeingDVEST/RRH/PSH

Apart from being limited to household types in which clients were served in households fleeing domestic violence – i.e., tlsa_HHID.**HHFleeingDV** = 1 – the logic for the **HHFleeingDVEST**, **HHFleeingDVRRH**, and **HHFleeingDVPSH** columns is identical to the **HHTypeEST/RRH/PSH** columns.

See section 5.12 for business logic and column values.

HHAdultAgeAOEST/RRH/PSH

Set tlsa_Person.**HHAdultAgeAOEST/RRH/PSH** based on the first of the criteria below where

- tlsa_HHID.**ActiveHHType** = 1; and
- Project type is consistent with project group:
  - EST - **ProjectType** in (1,2,8)
  - RRH - **ProjectType** = 13
  - PSH - **ProjectType** = 3

Priority	tlsa_HHID	HHAdultAgeAOEST/RRH/PSH
1	**HHAdultAge** = 18	18
2	**HHAdultAge** = 24	24
3	**HHAdultAge** = 55	55
4	**HHAdultAge** = 25	25
5	(any other)	-1

HHAdultAgeACEST/RRH/PSH

Set tlsa_Person.**HHAdultAgeACEST/RRH/PSH** based on the first of the criteria below where

- tlsa_HHID.**ActiveHHType** = 2; and
- Project type is consistent with project group:
  - EST - **ProjectType** in (1,2,8)
  - RRH - **ProjectType** = 13
  - PSH - **ProjectType** = 3

Priority	tlsa_HHID	HHAdultAgeAOEST/RRH/PSH
1	**HHAdultAge** = 18	18
2	**HHAdultAge** = 24	24
3	**HHAdultAge** = 55	55
4	**HHAdultAge** = 25	25
5	(any other)	-1

HHParentEST/RRH/PSH

Apart from being limited to household types in which clients were served in households with a parenting HoH – i.e., tlsa_HHID.**HHParent** = 1 – the logic for the **HHParentEST**, **HHParentRRH**, and **HHParentPSH** columns is identical to the **HHTypeEST/RRH/PSH** columns.

See section 5.12 for business logic and column values.

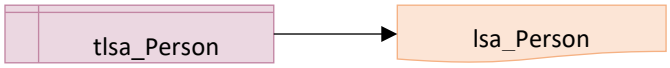
AC3PlusEST/RRH/PSH

Set the value to 1 for any client with an active enrollment in the project group associated with an active household where **AC3Plus** = 1.

- EST - **ProjectType** in (1,2,8)
- RRH - **ProjectType** = 13
- PSH - **ProjectType** = 3

Otherwise, set to 0.

5.19. LSAPerson



As noted, tlsa_Person is a client-level precursor to lsa_Person / LSAPerson.csv.

RowTotal is a count of *PersonalID*s in tlsa_Person, grouped by all of the other columns in LSAPerson.

6. HMIS Business Logic: LSAHousehold

6.1. Get Distinct Households for LSAHousehold

The tlsa_Household data construct holds one record for each distinct combination of **HoHID** and **ActiveHHType** in tlsa_HHID where **Active** = 1. It is a household-level version of the aggregate LSAHousehold data and is used to set values for each LSA reporting category for each household. It includes all columns from LSAHousehold.csv other than **RowTotal** and **ReportID**, as well as several columns which are used as a reference to simplify business logic but do not correlate to a column in LSAHousehold.

Relevant Data

Source

tlsa_HHID
HoHID
ActiveHHType
Active

Target

The logic associated with values for columns with names in **bold** below is described in this step. The business logic associated with other columns is described in subsequent steps.

tlsa_Household	Column Description
HoHID	*PersonalID* for heads of active households; distinct combinations of **HoHID** and **HHType** serve as a primary key.
HHType	The household type
FirstEntry	(Does not correlate to a column in LSAHousehold.csv) The earliest *EntryDate* for any active enrollment.
LastInactive	(Does not correlate to a column in LSAHousehold.csv) For households already engaged with the continuum at the start of the report period, the most recent date prior to ReportStart and the start of the household's period of continuous engagement.
Stat	The household status related to continuum engagement on the first day of the earliest enrollment active during the report period.
StatEnrollmentID	(Does not correlate to a column in LSAPerson.csv) For households returning or re-engaging with the continuum 15-730 days after an exit prior to ReportStart (**Stat** in (2,3,4)), the *EnrollmentID* for the household's most recent exit prior to ReportStart.
ReturnTime	For households returning or re-engaging with the continuum 15-730 days after an exit prior to ReportStart (**Stat** in (2,3,4)), the length of time in days between exit and the earliest active enrollment.
HHAdult	Number of people (including the head of household) 18 and older served with the HoH in active HMIS households where **HHType** = tlsa_Household.**HHType**

tlsa_Household	Column Description
HHChild	Number of people (including the head of household) under the age of 18 served with the HoH in active HMIS households where **HHType** = tlsa_Household.**HHType**
HHNoDOB	Number of people (including the head of household) with no valid date of birth with the HoH in active HMIS households where **HHType** = tlsa_Household.**HHType**
HHChronic	Identifies whether or not the head of household or any adult household member is chronically homeless. Based on **DisabilityStatus**, **CHTime**, and **CHTimeStatus** values, as determined for LSAPerson reporting.
HHVet	Identifies whether or not the household includes a veteran. Based on **VetStatus** value, as determined for LSAPerson reporting.
HHDisability	Identifies whether or not the head of household or any adult member was identified as having a disabling condition on any active enrollment.
HHFleeingDV	Identifies whether or not the head of household or any adult member was identified as fleeing domestic violence on any active enrollment. Based on **DVStatus** value, as determined for LSAPerson reporting.
HoHRace	Identifies race for head of household as reported in LSAPerson.
HoHEthnicity	Identifies ethnicity for head of household as reported in LSAPerson.
HHAdult	Number of people (including the head of household) 18 and older served with the head of household in the household type reflected in the **HHType** column.
HHChild	Number of people (including the head of household) under the age of 18 served with the head of household in the household type reflected in the **HHType** column.
HHNoDOB	Number of people (including the head of household) with no valid date of birth served with the head of household.
HHAdultAge	The age groups of adult household members. The categories are mutually exclusive (a household can only fall into one group) and inclusive (every household with adults will fall into one group).
HHParent	Identifies whether or not any household member has **RelationshiptoHoH** = 2 (child of the HoH).
ESTStatus	Identifies whether the household was served in ES, SH, and/or TH during the report period or prior to the report period during a period of continuous system use. If served, the status indicates how the enrollment timeframe relates to the report period.
ESTGeography	For households with active EST enrollments (**ESTStatus** > 2) during the report period, the Geography of the most recent project in which the household was enrolled.
ESTLivingSit	For households with active EST enrollments (**ESTStatus** > 2) during the report period, the LivingSituation associated with the earliest active enrollment.

tlsa_Household	Column Description
ESTDestination	For households who exited an EST enrollment during the report period and were not active in an EST project as of ReportEnd (**ESTStatus** in (12,22)), the *Destination* associated with the most recent exit.
ESTChronic	Population identifier specific to EST; see **HHChronic**.
ESTVet	Population identifier specific to EST; see **HHVet**.
ESTDisability	Population identifier specific to EST; see **HHDisability**.
ESTFleeingDV	Population identifier specific to EST; see **HHFleeingDV.**
ESTAC3Plus	Population identifier; for AC households, specifies whether or not there were at least three household members under the age of 18 served with the HoH in EST.
ESTAdultAge	Population identifier specific to EST; see **HHAdultAge**.
ESTParent	Population identifier specific to EST; see **HHParent**.
RRHStatus	Identifies whether the household was served in RRH during the report period or in an episode of homelessness that overlaps with the report period. If served, the status indicates how the enrollment timeframe relates to the report period.
RRHMoveIn	For households served in RRH during the report period, indicates if the household has a move-in date. If so, indicates whether it was before or during the report period.
RRHGeography	For households with active RRH enrollments (**RRHStatus** > 2) during the report period, the Geography of the most recent project in which the household was enrolled.
RRHLivingSit	For households with active RRH enrollments (**RRHStatus** > 2) during the report period, the *LivingSituation* associated with the earliest active enrollment.
RRHDestination	For households who exited an RRH enrollment during the report period and were not active in an RRH project as of ReportEnd (**RRHStatus** in (12,22)), the Destination associated with the most recent exit.
RRHPreMoveInDays	For households who were housed in RRH at any point in the report period, including those with a *MoveInDate* prior to ReportStart, the total number of days between *EntryDate* and *MoveInDate* for any active RRH enrollment. It differs from other day counts in that it includes all days in RRH prior to move-in, even if the household was simultaneously enrolled in ES/SH/TH/PSH.
RRHChronic	Population identifier specific to RRH; see **HHChronic**.
RRHVet	Population identifier specific to RRH; see **HHVet**.
RRHDisability	Population identifier specific to RRH; see **HHDisability**.
RRHFleeingDV	Population identifier specific to RRH; see **HHFleeingDV.**
RRHAC3Plus	Population identifier; for AC households, specifies whether or not there were at least three household members under the age of 18 served with the HoH in RRH.
RRHAdultAge	Population identifier specific to RRH; see **HHAdultAge**.
RRHParent	Population identifier specific to RRH; see **HHParent**.

tlsa_Household	Column Description
PSHStatus	Identifies whether the household was served in PSH during the report period or in an episode of homelessness that overlaps with the report period. If served, the status indicates how the enrollment timeframe relates to the report period.
PSHMoveIn	For households served in PSH during the report period, indicates if the household has a move-in date. If so, indicates whether it was before or during the report period.
PSHGeography	For households with active PSH enrollments (**PSHStatus** > 2) during the report period, the Geography of the most recent project in which the household was enrolled.
PSHLivingSit	For households with active PSH enrollments (**PSHStatus** > 2) during the report period, the *LivingSituation* associated with the earliest active enrollment.
PSHDestination	For households who exited a PSH enrollment during the report period and were not active in PSH as of ReportEnd (**PSHStatus** in (12,22)), the *Destination* associated with the most recent exit.
PSHHousedDays	From active enrollments, days spent housed in PSH. (Note that this differs from other day counts in that it is limited to active enrollments.)
PSHChronic	Population identifier specific to PSH; see **HHChronic**.
PSHVet	Population identifier specific to PSH; see **HHVet**.
PSHDisability	Population identifier specific to PSH; see **HHDisability**.
PSHFleeingDV	Population identifier specific to PSH; see **HHFleeingDV.**
PSHAC3Plus	Population identifier; for AC households, specifies whether or not there were at least three household members under the age of 18 served with the HoH in PSH.
PSHAdultAge	Population identifier specific to PSH; see **HHAdultAge**.
PSHParent	Population identifier specific to PSH; see **HHParent**.
ESDays	Days spent in ES or SH during the report period and/or in any continuous episode of homelessness/system use prior to the report period when the household was not in TH or housed in RRH/PSH.
THDays	Days spent in TH during the report period and/or in any continuous episode of engagement/homelessness prior to report period when the household was not in housed in RRH/PSH.
ESTDays	Days spent in ES/SH/TH in the report period and/or in any continuous episode of homelessness prior to report period when the household was not housed in RRH/PSH.
RRHPSHPreMoveInDays	For households served in RRH and/or PSH, the total number of days spent homeless in RRH/PSH in the report period or in any continuous episode of engagement/homelessness prior to report period when household was not housed in RRH/PSH and not active in ES/SH/TH.
RRHHousedDays	Days spent housed in RRH in the report period and/or in any continuous episode of engagement/homelessness prior to report period when the household was not housed in PSH.

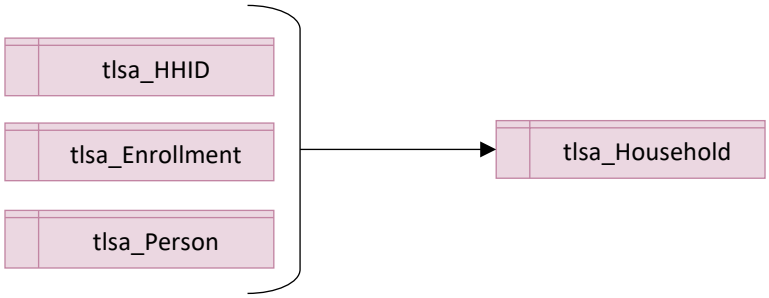
tlsa_Household	Column Description
SystemDaysNotPSHHoused	The total number of days spent in ES, SH, TH, RRH, or PSH (pre-move-in) in the report period or in any continuous episode of homelessness prior to the report period while not housed in PSH.
SystemHomelessDays	The combined total number of days in the report period or in any episode of continuous homelessness that overlaps the report period when the household was in ES/SH/TH or was enrolled, but not housed in RRH/PSH (i.e. does not have a move-in date).
Other3917Days	The total number of days in the report period or in any episode of continuous homelessness that overlaps the report period when the household was on the street or in ES/SH based on 3.917 Living Situation records for any System Path enrollment, but was not active in a continuum ES/SH/TH/RRH/PSH project.
TotalHomelessDays	The combined total number of days in the report period or in any episode of continuous homelessness that overlaps the report period when the household was in ES/SH/TH; was enrolled, but not housed in RRH/PSH (i.e. does not have a move-in date); or on the street or in ES/SH based on 3.917 Living Situation records for any System Path enrollment and was not housed in RRH/PSH.
SystemPath	The combinations of system use during the report period and in any continuous period of service prior to the report period – i.e., the 'path' through the system. It is not dependent on the sequence of service. System Paths are mutually exclusive.

Logic

For the LSA, each distinct combination of a head of household's **PersonalID** and **HHType** from all **HouseholdID**s active in the report period is counted as a single household.

Records in the intermediate household-level tlsa_Household are created for each distinct combination of **ActiveHHType** and **HoHID** in tlsa_HHID where **Active** = 1.

6.2. Set Population Identifiers for LSAHousehold



HHAdult, **HHChild**, and **HHNoDOB** are used together to report on household composition. The additional household-level population identifiers are used to report on population groups of interest.

Relevant Data

Source

tlsa_HHID
HoHID
ActiveHHType
HHChronic
HHVet
HHDisability
HHFleeingDV
HHAdultAge
HHParent
AC3Plus
Active
tlsa_Enrollment
HouseholdID
ActiveAge
Active
tlsa_Person
PersonalID
Race
Ethnicity

Target

See section 6.1 Get Distinct Households for LSAHousehold for column descriptions.

tlsa_Household
HHAdult
HHChild
HHNoDOB
HoHRace
HoHEthnicity
HHChronic
HHVet
HHDisability
HHFleeingDV
HHAdultAge
HHParent
AC3Plus

Logic

HHAdult

The value is a count (up to 3) of household members who was served as an adult on *every* associated active enrollment (**ActiveAge** between 21 and 65). Anyone served as both an adult and a child with the same **HoHID**/**ActiveHHType** should be counted as a child. (This is only possible in AC households when a household member turns 18 between enrollments and there is another household member still under 18.)

Value	Category
0	No adult in household
1	1 adult in household
2	2 adults in household
3	3 or more adults in household

If **HHType** is 1 (AO) or 2 (AC), the value in this column must be > 0.

If **HHType** = 3 (CO), the value in this column must = 0.

HHChild

The value is a count of all active household members (up to 3) whose **ActiveAge** for *any* associated active enrollment is under 18.

Value	Category
0	No child in household
1	1 child in household
2	2 children in household
3	3 or more children in household

If **HHType** is 1 (AO), the value in this column must = 0.

If **HHType** is 2 (AC) or 3 (CO), the value in this column must be > 0.

> **Note:** If **HHChild** = 3 and **HHType** = 2, the household is counted in the AC Households with 3 or More Children population.

HHNoDOB

The value is a count of all active household members (up to 3) whose **ActiveAge** is in (98,99).

Value	Category
0	No person without a valid DOB in household
1	1 person without a valid DOB in household
2	2 people without a valid DOB in household
3	3 or more people without a valid DOB in household

If **HHType** is 1 (AO) or 3 (CO), the value in this column must be = 0.

If **HHType** = 99 (UN), the value in this column must be > 0.

HoHRace and HoHEthnicity

Set values for **HoHRace** and **HoHEthnicity** in tlsa_Household to the **Race** and **Ethnicity** values for the head of household in tlsa_Person.

HHVet, HHChronic, HHDisability, HHFleeingDV, and HHParent

Set the value in tlsa_Household to the maximum value for the corresponding column in tlsa_HHID – i.e., if the value is 1 for any **HouseholdID** with the same **HoHID** and **ActiveHHType = HHType**, set the value in tlsa_Household to 1. Otherwise, set the value to 0.

These columns are used to identify populations of interest:

- Veteran Household (**HHVet** = 1)

- Household with a Chronically Homeless Adult/HoH **(HHChronic** = 1)
- Household with a Disabled Adult/HoH **(HHDisability** = 1)
- Household Fleeing Domestic Violence (**HHFleeingDV** = 1)
- Parenting Children (**HHType** = 3 and **HHParent** = 1)
- Parenting Youth 18-24 – (**HHParent** = 1 and **HHType** = 2 and **HHAdultAge** in (18,24))

HHAdultAge

Set **HHAdultAge** based on the first of the criteria below met by any active tlsa_HHID record with the same **HoHID** and **ActiveHHType = HHType:**

Priority	tlsa_HHID	tlsa_Household.HHAdultAge
1	**HHAdultAge** = 18	18
2	**HHAdultAge** = 24	24
3	**HHAdultAge** = 55	55
4	**HHAdultAge** = 25	25
5	(any other)	-1

The populations for which **HHAdultAge** are relevant are:

- AO Unaccompanied Youth 18-21– all household members are between the ages of 18 and 21 (**HHType** = 1 and **HHAdultAge** = 18)
- AO Unaccompanied Youth 22-24 – at least one household member is between 22 and 24; all are between 18 and 24 **(HHType** = 1 and **HHAdultAge** = 24)
- AO Non-Veteran Households 25+ - at least one household member is over 24 (**HHType** = 1 and **HHVet** = 0 and **HHAdultAge** in (25,55))
- AO Senior Households 55+ - all household members are 55 or older (**HHType** = 1 and **HHAdultAge** = 55)
- AC Parenting Youth 18-24 – all adults in the household are between 18 and 24; there are no household members of unknown age (**HHParent** = 1 and **HHType** = 2 and **HHAdultAge** in (18,24))

In general, each distinct combination of **HoHID**/**HHType** is counted in all populations identified for associated **HouseholdID**s. Technically, a non-veteran served alone –once at age 24 and again at 25 – is a member of two populations:

- Unaccompanied Young Adults 18-24; and
- Non-Veteran Households 25+.

With a single upload value for **HHAdultAge** in LSAHousehold, it isn't possible to identify both. Inclusion in youth and senior populations is prioritized over the Non-Veteran Households 25+ population.

6.3. EST/RRH/PSHStatus – LSAHousehold

Relevant Data

Source

tlsa_HHID
HoHID
HHType
ProjectType

EntryDate
ExitDate
Active

Target

See section 6.1 Get Distinct Households for LSAHousehold for column descriptions.

tlsa_Household
ESTStatus
RRHStatus
PSHStatus

Logic

Like tlsa_Person, tlsa_Household includes columns to indicate the project groups in which each household was served.

The logic and upload values associated with **ESTStatus**, **RRHStatus**, and **PSHStatus** are identical, aside from the project group. The following sections use 'x' in place of the project group identifier – e.g., **xStatus** instead of **ESTStatus**.

Values are based on:

- Earliest *EntryDate* for an active enrollment in project group; and
- A NULL value for *ExitDate* on any active enrollment in the project group OR the latest *ExitDate.*

For every record in tlsa_Household:

Earliest x *EntryDate*	**Latest x *ExitDate***	**xStatus Value**
NULL	n/a	0
< ReportStart	NULL / there is an active enrollment for x with no *ExitDate*	11
< ReportStart	Between ReportStart and ReportEnd	12
>= ReportStart	NULL / there is an active enrollment for x with no *ExitDate*	21
>= ReportStart	Between ReportStart and ReportEnd	22

Note: 2 is also a valid value for **xStatus** but is not assigned until a later step in section 6.16 Update EST/RRH/PSHStatus.

6.4. RRH/PSHMoveIn – LSAHousehold

Relevant Data

Source

tlsa_HHID
HoHID
HHType
MoveInDate

Target

See section 6.1 Get Distinct Households for LSAHousehold for column descriptions.

tlsa_Household
RRHMoveIn
PSHMoveIn

Logic

Aside from the project type, the logic and upload values associated with **RRHMoveIn** and **PSHMoveIn** are identical. They are based on **RRHStatus** and **PSHStatus**, respectively, and move-in dates for relevant enrollments.

For all records in tlsa_Household:

xStatus Value	MoveInDate	xMoveIn Value
<= 2	Any	-1
> 2	There is no *MoveInDate*	0
> 2	Most recent *MoveInDate* is between ReportStart and ReportEnd	1
> 2	Most recent *MoveInDate* < ReportStart	2

6.5. EST/RRH/PSHGeography – LSAHousehold

Relevant Data

Source

lsa_ProjectCoC
ProjectID
GeographyType
tlsa_Household
HoHID
HHType
EST/RRH/PSHStatus
tlsa_HHID
HoHID
ActiveHHType
ProjectID
EntryDate
ExitDate

Target

See section 6.1 Get Distinct Households for LSAHousehold for column descriptions.

tlsa_Household
ESTGeography
RRHGeography
PSHGeography

Logic

Set **xGeography** = -1 for households not served in project group during the report period (**xStatus** < 10).

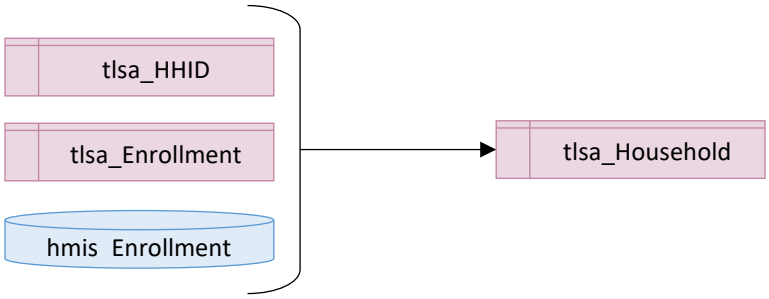
For households served in the project group during the report period (**xStatus** >= 10), **xGeography** is based on:

- The active enrollment for the project group with the latest active date in the report period; and
- The lsa_ProjectCoC.*GeographyType* for the project.

If a household has more than one project group enrollment on their most recent active date, use the enrollment with the latest *EntryDate*.

HMIS Value	HMIS Response Category	LSA Value
1	Urban	1
2	Suburban	2
3	Rural	3

6.6. EST/RRH/PSHLivingSit – LSAHousehold



Relevant Data

Source

tlsa_Household
HoHID
HHType
EST/RRH/PSHStatus
tlsa_HHID
HoHID
ActiveHHType
HouseholdID
ProjectType
EntryDate
tlsa_Enrollment
EnrollmentID
PersonalID
HouseholdID
hmis_Enrollment
EnrollmentID
LivingSituation

Target

See section 6.1 Get Distinct Households for LSAHousehold for column descriptions.

tlsa_Household
ESTLivingSit
RRHLivingSit
PSHLivingSit

Logic

LSA Living Situation Categories

Upload Value	Category
-1	Not applicable (not served in project group)
1	Homeless – Street
2	Homeless - ES/SH
3	Interim housing
4	Homeless - TH
5	Hotel/Motel - no voucher
6	Residential project
7	Family
8	Friends
9	PSH
10	PH – own
11	PH - rent no subsidy
12	PH - rent with subsidy
13	Foster care
14	Long-term care
15	Institutions - incarceration
16	Institutions - medical
99	Unknown

Set **xLivingSit** = -1 for households not served in project group during the report period (**xStatus** < 10).

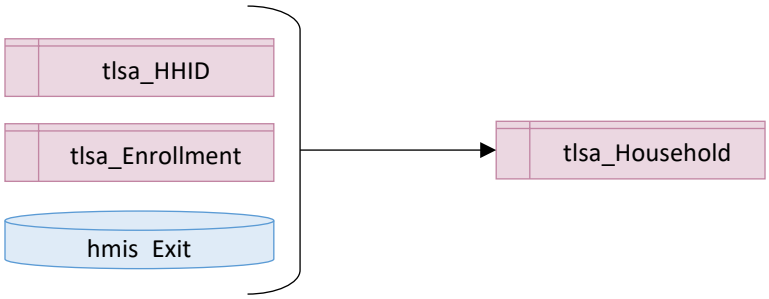
For households served in the project group during the report period (**xStatus** > 2), **xLivingSit** is based *LivingSituation* for the enrollment with the earliest *EntryDate* for the project group using the crosswalk below.

HMIS Value	HMIS Response Category	LSA Value
32	Host home (non-crisis)	4
16	Place not meant for habitation	1
1	Emergency shelter	2
18	Safe Haven	2
27	Interim housing[1]	3
2	Transitional housing for homeless persons	4
14	Hotel or motel paid for without ES voucher	5
29	Residential project with no homeless criteria	6
35	Staying or living with family	7
36	Staying or living with friends	8
3	Permanent housing for formerly homeless persons	9
21	Owned by client, with ongoing housing subsidy	10
11	Owned by client, no ongoing housing subsidy	10
10	Rental by client, no ongoing housing subsidy	11
19	Rental by client, with VASH subsidy	12

[1] 'Interim housing' (27) was a valid response category for *3.917A/B Living Situation* prior to 10/1/2019, the effective date of the FY2020 HMIS Data Standards. In case any records are still stored with this value, we are retaining this as a valid report category for the LSA, regardless of entry/exit dates.

HMIS Value	HMIS Response Category	LSA Value
28	Rental by client, with GPD TIP subsidy	12
20	Rental by client, with other housing subsidy (including RRH)	12
33	Rental by client, with HCV voucher (tenant or project based)	12
34	Rental by client in a public housing unit	12
15	Foster care home or foster care group home	13
25	Long-term care facility or nursing home	14
7	Jail, prison or juvenile detention facility	15
6	Hospital or other residential non-psychiatric medical facility	16
4	Psychiatric hospital or other psychiatric facility	16
5	Substance abuse treatment facility or detox center	16
	(any other)	99

6.7. EST/RRH/PSHDestination – LSAHousehold



Relevant Data

Source

tlsa_Household
HoHID
HHType
EST/RRH/PSHStatus
tlsa_HHID
HoHID
ActiveHHType
HouseholdID
ExitDate
ExitDest
ProjectType
tlsa_Enrollment
EnrollmentID
PersonalID
HouseholdID

Target

See section 6.1 Get Distinct Households for LSAHousehold for column descriptions.

tlsa_Household
ESTDestination
RRHDestination

PSHDestination

Logic

See section 3.3 HMIS Household Enrollments for logic associated with setting destination for individual enrollments.

Set **xDestination** = -1 for households not served in project group and households enrolled in project group at ReportEnd (**xStatus** not in (12,22)).

For households that exited the project group during the report period (**xStatus** in (12,22)), **xDestination** is based on the active enrollment with the most recent **ExitDate** for the project group using the tlsa_HHID.**ExitDest** value.

6.8. EST/RRH/PSH Population Identifiers

Relevant Data

Source

tlsa_HHID
HoHID
ProjectType
ActiveHHType
HHChronic
HHVet
HHDisability
HHFleeingDV
HHAdultAge
HHParent
AC3Plus

Target

See section 6.1 Get Distinct Households for LSAHousehold for column descriptions.

tlsa_Household
ESTChronic
ESTVet
ESTDisability
ESTFleeingDV
ESTAC3Plus
ESTAdultAge
ESTParent
RRHChronic
RRHVet
RRHDisability
RRHFleeingDV
RRHAC3Plus
RRHAdultAge
RRHParent
PSHChronic

PSHVet
PSHDisability
PSHFleeingDV
PSHAC3Plus
PSHAdultAge
PSHParent

Logic

In section 6.2, a household is included in any given population as long as at least one active **HouseholdID** with the same **HoHID**/**ActiveHHType** meets the criteria.

The population identifiers listed here use similar logic, but are specific to project group – they are only set if there is a record in tlsa_HHID for the **HoHID**/**ActiveHHType** and the project type is consistent with the relevant project group:

- **EST** – **ProjectType** in (1,2,8)
- **RRH** – **ProjectType** = 13
- **PSH** – **ProjectType** = 3

There are no project-group-specific columns for **HoHRace** and **HoHEthnicity** as those are not subject to change with household composition.

EST/RRH/PSHAC3Plus

For records in tlsa_Household where **HHType** = 2 and **HHChild** = 3, set **EST/RRH/PSHAC3Plus** to 1 if there is any active **HouseholdID** in tlsa_HHID for the **HoHID** where **ActiveHHType** = **2** and **AC3Plus** = 1 and **ProjectType** is consistent with the project group. For all other records, set to 0.

EST/RRH/PSHVet

If there is any active **HouseholdID** for the **HoHID** where **ActiveHHType** = **HHType** and **HHVet** = 1 and **ProjectType** is consistent with the project group, set the value for **EST/RRH/PSHVet** to 1. Otherwise, set to 0.

EST/RRH/PSHChronic

If there is any active **HouseholdID** for the **HoHID** where **ActiveHHType** = **HHType** and **HHChronic** = 1 and **ProjectType** is consistent with the project group, set the value for **EST/RRH/PSHChronic** to 1. Otherwise, set to 0.

EST/RRH/PSHDisability

If there is any active **HouseholdID** for the **HoHID** where **ActiveHHType** = **HHType** and **HHDisability** = 1 and **ProjectType** is consistent with the project group, set the value for **EST/RRH/PSHDisability** to 1. Otherwise, set to 0.

EST/RRH/PSHFleeingDV

If there is any active HHID for the **HoHID** where **ActiveHHType** = **HHType** and **HHFleeingDV** = 1 and **ProjectType** is consistent with the project group, set the value for **EST/RRH/PSHFleeingDV** to 1. Otherwise, set to 0.

EST/RRH/PSHParent

If there is any active HHID for the **HoHID** where **ActiveHHType** = **HHType** and **HHParent** = 1 and **ProjectType** is consistent with the project group, set the value for **EST/RRH/PSHParent** to 1. Otherwise, set to 0.

EST/RRH/PSHAdultAge

Set **EST/RRH/PSHAdultAge** based on the first of the criteria below met by any active HHID record for the relevant project group with the same **HoHID** where **ActiveHHType** = **HHType**:

Priority	tlsa_HHID	EST/RRH/PSHAdultAge
1	**HHAdultAge** = 18	18
2	**HHAdultAge** = 24	24
3	**HHAdultAge** = 55	55
4	**HHAdultAge** = 25	25
5	(any other)	-1

6.9. System Engagement Status and Return Time

Relevant Data

Source

tlsa_Household
HoHID
HHType
tlsa_HHID
HoHID
EntryDate
ExitDate
ExitDest
ActiveHHType
EnrollmentID
Active

Target

See section 6.1 Get Distinct Households for LSAHousehold for column descriptions.

tlsa_Household
FirstEntry
Stat
StatEnrollmentID
ReturnTime

Logic

System engagement status specifies whether or not active households were actively engaged with continuum ES, SH, TH, RRH, and/or PSH projects in the two years prior to their earliest active date in the report period in the following categories:

Value	Stat
1	First-time homeless
2	Return to continuum 15-730 days after exit to permanent destination
3	Re-engage with continuum 15-730 days after exit to temporary destination
4	Re-engage with continuum 15-730 days after exit to unknown destination

Value	Stat
5	Continuous engagement with continuum

FirstEntry

A household's **FirstEntry** is the earliest *EntryDate* associated with any active enrollment.

Previous Activity / StatEnrollmentID

StatEnrollmentID is the tlsa_HHID.**EnrollmentID** with the most recent (effective) **ExitDate** where:

- **HoHID** = tlsa_Household.**HoHID**
- **ActiveHHType** = tlsa_Household.**HHType**
- **ExitDate** for the earlier enrollment >= [**FirstEntry** – 730 days] and tlsa_HHID.**ExitDate** < **FirstEntry**

ReturnTime

If StatEnrollmentID is NULL, **ReturnTime** = -1

Otherwise, set **ReturnTime** based on the number of days between StatEnrollmentID.**ExitDate** and **FirstEntry**:

Value	Category
-1	0-14 days
30	15-30 days
60	31-60 days
90	61-90 days
180	91-180 days
365	181-365 days
547	366-547 days
730	548-730 days

Stat

If **FirstEntry** < ReportStart, **Stat** = 5 – the active enrollment is part of a period of continuous engagement with the continuum that began prior to the report period. This will include any household whose **EST/RRH/PSHStatus** is either 11 or 12, which indicate entry prior to the start of the report period

If **FirstEntry** >= ReportStart, it is necessary to look for inactive enrollments for the household in the two years prior to determine status.

Stat is based on **StatEnrollmentID** (if any) and the associated **ExitDate** and **ExitDest**.

Stat	Category	ExitDest	Other Condition
1	First-time homeless	(n/a)	**StatEnrollmentID** is NULL
2	Return 15-730 days after exit to permanent destination	Between 1 and 6	**ReturnTime** between 15 and 730
3	Re-engage 15-730 days after exit to temporary destination	Between 7 and 14	**ReturnTime** between 15 and 730
4	Re-engage 15-730 days after exit to unknown destination	In (15,99)	**ReturnTime** between 15 and 730
5	Continuous engagement with continuum	(n/a)	**StatEnrollmentID** is not NULL and **ReturnTime** = -1

6.10. RRHPreMoveInDays – LSAHousehold

Relevant Data

Source

tlsa_Household
HoHID
HHType
tlsa_HHID
HoHID
ActiveHHType
ProjectType
EntryDate
MoveInDate
ExitDate
Active

Target

tlsa_Household	Column Description
RRHPreMoveInDays	Counts of actual days are set in tlsa_Household; counts of active households are grouped by ranges – e.g., '1-7 days', '8-30 days', etc. – in the corresponding **LSAHousehold** column. Averages based on the counts of actual days are inserted to LSACalculated. (See section 8.4 Get Average Days for Length of Time in RRH Projects.)

Logic

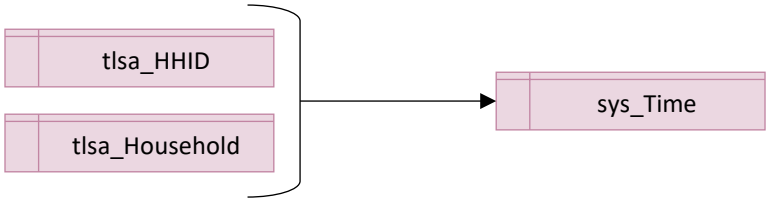
The logic associated with the LSAHousehold.**RRHPreMoveInDays** column differs from others that count days engaged in various parts of the system, referred to collectively as 'system use days.' The other counts resolve potential data conflicts so that each day has a single status and is counted only once. For example, days spent in RRH prior to move-in that overlap with days in emergency shelter are counted as ES days.

The **RRHPreMoveInDays** column is a count of distinct dates when a household was enrolled in any RRH project but not housed, regardless of other system use data.

For each active HHID where **HoHID**/**ActiveHHType** = tlsa_Household. **HoHID**/**HHType** and **ProjectType** = 13, set **RRHPreMoveInDays** = a count of the distinct dates between any tlsa_HHID.**EntryDate** and the earliest associated non-NULL value for:

- **MoveInDate** – 1 day
- **ExitDate**
- ReportEnd

6.11. Dates Housed in PSH or RRH (sys_Time)



The primary key for sys_Time is the unique combination of **HoHID**, **HHType**, and **sysDate** – i.e., no date can be counted with more than one status for any given LSA household.

Relevant Data

Source

tlsa_Household
HoHID
HHType
tlsa_HHID
HoHID
ActiveHHType
ProjectType
MoveInDate
ExitDate
Active

Target

sys_Time	Column Description
HoHID	HoHID – tlsa_Household
HHType	HHType – tlsa_Household
sysDate	Distinct dates enrolled in a continuum project and/or Street/ES/SH dates from *3.917 Living Situation*
sysStatus	This step identifies dates when the household was: • 1 = Housed in PSH • 2 = Housed in RRH Subsequent steps identify dates: • 3 = In TH • 4 = In ES/SH • 5 = In PSH pre-move-in • 6 = In RRH pre-move-in • 7 = Street/ES/SH (3.917)

Logic

LSAHousehold includes counts of the total number of days that a head of household was either homeless and/or engaged in various parts of the system, referred to collectively as 'system use days.' The counts are grouped by the client's system status – i.e., 'Days in TH' or 'Days Housed in PSH' – on each relevant date.

Similar to the process of counting days for chronic homelessness, a head of household's system use status for any given date is assigned in priority order, using the *first* status from the list below for which the HoH meets the

identified criteria based on values in tlsa_HHID and, for night-by-night enrollments, bed night dates in hmis_Services.

Priority	Status	[Date]
1	Housed in PSH	>= **MoveInDate** and <= The first non-NULL of (**ExitDate** – 1 day) or ReportEnd
2	Housed in RRH	= **MoveInDate**
2	Housed in RRH	> **MoveInDate** and <= The first non-NULL of (**ExitDate** – 1 day) or ReportEnd
3	In TH	>= **EntryDate** and <= The first non-NULL of (**ExitDate** – 1 day) or ReportEnd
4	In entry-exit ES/SH	>= **EntryDate** and <= The first non-NULL of (**ExitDate** – 1 day) or ReportEnd
4	In night-by-night ES	= *BedNightDate*
5	Enrolled but not housed in PSH	>= *EntryDate* and <= The first non-NULL of (*MoveInDate* – 1 day*), ExitDate,* and ReportEnd
6	Enrolled but not housed in RRH	>= *EntryDate* and <= The first non-NULL of (*MoveInDate* – 1 day*), ExitDate,* and ReportEnd
7	Street/ES/SH (3.917)	>= *DateToStreetESSH* and < *EntryDate*

In the CH process, enrollment dates are relevant regardless of household type or head of household status for the enrollment. However, system use days for a household are only counted for enrollments where the two defining characteristics of a household – **HoHID** and **ActiveHHType** – match tlsa_Household.

Dates Housed in PSH

Dates housed in PSH are counted only for active enrollments.

For each **HoHID**/**HHType** in tlsa_Household, create a record with a **sysStatus** = 1 in sys_Time for any [Date] <= ReportEnd where:

- tlsa_HHID.**HoHID =** tlsa_Household**.HoHID;** and
- tlsa_HHID.**ActiveHHType** = tlsa_Household.**HHType**; and
- tlsa_HHID.**Active** = 1; and
- tlsa_HHID.**ProjectType** = 3; and
- tlsa_HHID.**MoveInDate** <= [Date] ; and
- tlsa_HHID.**ExitDate** > [Date] or is NULL

Dates Housed in RRH

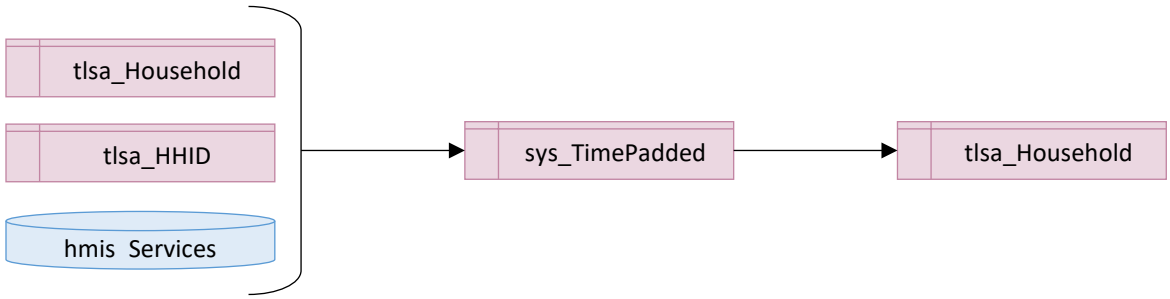
Dates housed in RRH are counted only for active enrollments. As noted in section 3.3 (HMIS Data Requirements and Assumptions) and reflected in the criteria listed below, the *MoveInDate* for an RRH enrollment is counted as a date housed even if it is equal to the *ExitDate*.

For each **HoHID**/**HHType** in tlsa_Household, create a record with a **sysStatus** = 2 in sys_Time for any [Date] <= ReportEnd where:

- There is no existing record for the **HoHID**/**HHType**/**Date** in sys_Time (i.e., the household was not housed in PSH on the date); and
- tlsa_HHID.**HoHID =** tlsa_Household**.HoHID;** and

- tlsa_HHID.**ActiveHHType** = tlsa_Household.**HHType**; and
- tlsa_HHID.**Active** = 1; and
- **ProjectType** = 13; and
- **MoveInDate** <= [Date] ; and
- **ExitDate** > [Date] or is NULL

6.12. Get Last Inactive Date



This step identifies, based on active enrollments and potentially relevant inactive enrollments, the date immediately prior to the first day of continuous system engagement for which all system use days are counted – or the household's last inactive date.

Specifically, this is the latest date in the most recent period of at least seven nights during which a household was not enrolled in a continuum ES, SH, TH, RRH, or PSH project AND was not housed in RRH or PSH. This is the date after which all system use days are reportable.

RelevantData

Source

tlsa_Household
HoHID
HHType
FirstEntry
tlsa_HHID
HoHID
ActiveHHType
EntryDate
ExitDate
hmis_Services
EnrollmentID
BedNightDate (*DateProvided* where *RecordType* = 200)

Targets

sys_TimePadded	Column Description
HoHID	From tlsa_Household
HHType	From tlsa_Household
StartDate	• For tlsa_HHID **EnrollmentID**s in night-by-night ES, each *BedNightDate* associated with the enrollment between 10/1/2012 and ReportEnd • For all other tlsa_HHID enrollments, the **EntryDate**

EndDate	• For tlsa_HHID **EnrollmentID**s in night-by-night ES, the earlier of [**StartDate** + 6 days] or ReportEnd • For all other tlsa_HHID enrollments, the earlier non-NULL of [**ExitDate** + 6 days] or ReportEnd

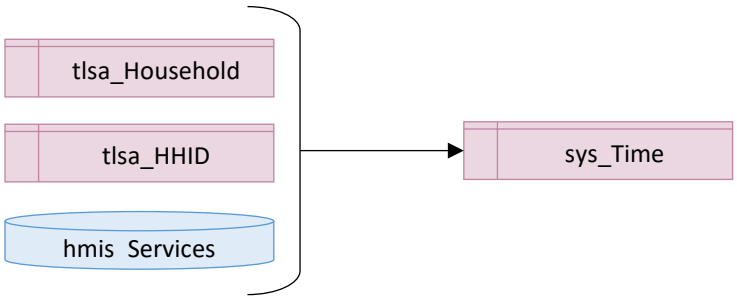
tlsa_Household
LastInactive

Logic

LastInactive is the later of 9/30/2012 and the most recent date where:

- [Date] < tlsa_Household.**FirstEntry**
- [Date] is not between a *BedNightDate* and (*BedNightDate* + 6 days) for any enrollment – active or inactive -- in tlsa_HHID where **ActiveHHType** = tlsa_Household.**HHType**
    - Note that a *BedNightDate* must be valid – i.e., >= **EntryDate** for the associated enrollment and < **ExitDate** if there is one – in order to be relevant. In systems that allow the creation of invalid bed night data, report code must exclude those records.
- [Date] is not between a tlsa_HHID.**EntryDate** and the associated (**ExitDate** + 6 days) for any enrollment – active or inactive -- in tlsa_HHID where **ActiveHHType** = tlsa_Household.**HHType**

6.13. Get Dates of Other System Use (sys_Time)



Relevant Data

Source

tlsa_Household
HoHID
HHType
LastInactive
tlsa_HHID
HoHID
ActiveHHType
ProjectType
TrackingMethod
EntryDate
MoveInDate
ExitDate
hmis_Services

EnrollmentID
BedNightDate (*DateProvided* where *RecordType* = 200)

Target

See section 6.11 Dates Housed in PSH or RRH for column descriptions.

sys_Time
HoHID
HHType
sysDate
sysStatus

Logic

In order to create a record in sys_Time for a household on any given [Date], the following must be true:

- [Date] is not in sys_Time for the same **HoHID**/**HHType;** and
- [Date] > tlsa_Household.**LastInactive**; and
- [Date] <= ReportEnd.

The **sysStatus** values referenced in the next sections are based on project type:

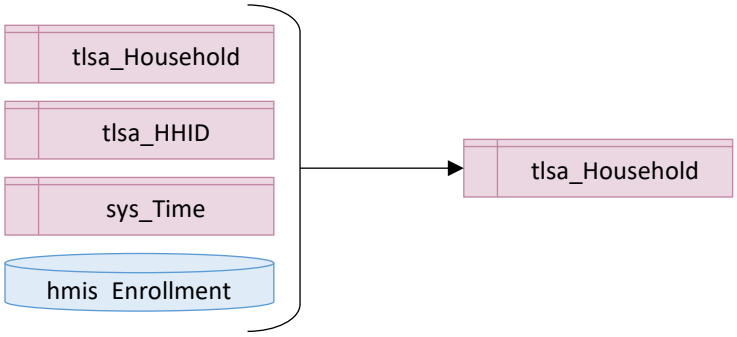
Value	Category
3	In transitional housing
4	In emergency shelter/Safe Haven
5	Enrolled but not housed in PSH
6	Enrolled but not housed in RRH

If a [Date] meets the criteria for more than one **sysStatus** based on the list below, use the **sysStatus** with the lowest value. For example, if a client has overlapping enrollments in both an emergency shelter (**sysStatus** = 4) and a transitional housing project (**sysStatus** = 3) on a single date, the **sysStatus** for that date should be the lower of the two values (3).

Value	Criteria
3	**ProjectType** = 2 and [Date] >= **EntryDate** and [Date] <= the first non-NULL of [**ExitDate** – 1 day] and ReportEnd
4	**ProjectType** = 8 or (**ProjectType** = 1 and **TrackingMethod** = 0) and [Date] >= **EntryDate** and [Date] <= the first non-NULL of [**ExitDate** – 1 day] and ReportEnd
4	**ProjectType** = 1 and **TrackingMethod** = 3 and [Date] = *BedNightDate*
5	**ProjectType** = 3 and [Date] >= **EntryDate** and [Date] < **MoveInDate**
5	**ProjectType** = 3 and [Date] >= **EntryDate** and **MoveInDate** is NULL and [Date] <= the first non-NULL of [**ExitDate** – 1 day] and ReportEnd
6	**ProjectType** = 13 and [Date] >= **EntryDate** and [Date] < **MoveInDate**

6	**ProjectType** = 13 and [Date] >= **EntryDate** and **MoveInDate** is NULL and [Date] <= the first non-NULL of [**ExitDate** – 1 day] and ReportEnd

6.14. Get Other Dates Homeless from 3.917A/B Living Situation



Dates that are documented as Street/ES/SH dates in *3.917 Living Situation*, do not have a status based on system use, and are contiguous to the period of continuous engagement should be counted as Street/ES/SH dates for LOTH reporting. Unlike system use, this may include both dates prior to **LastInactive** and dates prior to 10/1/2012**.**

Relevant Data

Source

tlsa_Household
LastInactive
HoHID
HHType
tlsa_HHID
HoHID
ActiveHHType
EnrollmentID
ProjectType
EntryDate
ExitDate
sys_Time
HoHID
HHType
sysDate
hmis_Enrollment
EnrollmentID
EntryDate
LivingSituation
LengthOfStay
PreviousStreetESSH
DateToStreetESSH

Target

See section 6.1 Get Distinct Households for LSAHousehold for column descriptions.

tlsa_Household
Other3917Days

Logic

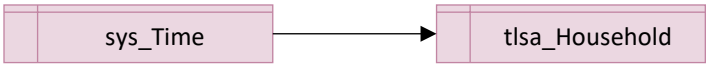
For any active enrollment or any **EnrollmentID** from tlsa_HHID where **HoHID**/**EntryHHType** = tlsa_Household.**HoHID**/**HHType** and:

- **EntryDate** > **LastInactive**; and
  - *LivingSituation* in (1,18,16) or ProjectType in (1,8); or
  - *ProjectType* not in (1,8) and *LengthOfStay* in (10, 11) and *PreviousStreetESSH* = 1; or
  - *ProjectType* not in (1,8) and *LivingSituation* in (4,5,6,7,15,25) and *LengthOfStay* in (2,3) and *PreviousStreetESSH* = 1

The value of **Other3917Days** is equal to the count of all dates:

- Between the later of *DateToStreetESSH* or **LastInactive** and the day prior to the associated **EntryDate** where the date does not already have a status based on system use.
- Between any *DateToStreetESSH* and the day prior to **LastInactive** where the associated **EntryDate** is > **LastInactive**.

6.15. Set System Use Days for LSAHousehold



Counts of actual days are set in tlsa_Household; counts of active households are grouped by ranges – e.g., '1-7 days', '8-30 days', etc. – in the corresponding **LSAHousehold** column.

The values in tlsa_Household are the source for averages in LSACalculated; see section 8.1 Get Average Days for Length of Time Homeless through section 8.8.

Relevant Data

Source

sys_Time
HoHID
HHType
sysDate
sysStatus

Target

See section 6.1 Get Distinct Households for LSAHousehold for column descriptions.

tlsa_Household
ESDays
THDays
ESTDays
RRHPSHPreMoveInDays
RRHHousedDays
SystemDaysNotPSHHoused
SystemHomelessDays
Other3917Days

TotalHomelessDays
PSHHousedDays

Logic

The values for system use days columns in tlsa_Household should be set to the actual number of days counted and NOT the associated upload value; the actual number of days are needed to generate averages for LSACalculated.

ESDays

This is the total number of days in emergency shelter or Safe Haven for active enrollments and inactive enrollments that fall within a period of continuous system engagement that extends into the report period. ES days are not counted if conflicting enrollment data shows that the household was housed in RRH/PSH or enrolled in a transitional housing project.

Set **ESDays** = count of distinct **sysDate**s in sys_Time where **sysStatus** = 4 and **HoHID/HHType** = tlsa_Household **HoHID/HHType.**

THDays

This is the total number of days in transitional housing for active enrollments and inactive enrollments that fall within a period of continuous system engagement that extends into the report period. TH days are not counted if conflicting enrollment data shows that the household was housed in RRH/PSH.

Set **THDays** = count of distinct **sysDate**s in sys_Time where **sysStatus** = 3 and **HoHID/HHType** = tlsa_Household **HoHID/HHType.**

ESTDays

This is the total number of days in emergency shelter, Safe Haven, and/or transitional housing – **ESDays** + **THDays**.

Set **ESTDays** = count of distinct **sysDate**s in sys_Time where **sysStatus** in (3,4) and **HoHID/HHType** = tlsa_Household **HoHID/HHType.**

RRHPSHPreMoveInDays

This is the total number of days enrolled but not housed in RRH and/or PSH projects for active enrollments and for inactive RRH/PSH enrollments *without move-in dates* that fall within a period of continuous system engagement that extends into the report period. Pre-move-in days are not counted if conflicting enrollment data shows that the household was housed in RRH/PSH, enrolled in a transitional housing project, or in emergency shelter or Safe Haven.

Set **RRHPSHPreMoveInDays** = count of distinct **sysDate**s in sys_Time where **sysStatus** in (5,6) and **HoHID/HHType** = tlsa_Household **HoHID/HHType.**

SystemHomelessDays

This is the total number of days in emergency shelter, Safe Haven, transitional housing, and/or enrolled but not housed in RRH/PSH – **ESTDays + RRHPSHPreMoveInDays**.

Set **SystemHomelessDays** = count of distinct **sysDate**s in sys_Time where **sysStatus** in (3,4,5,6) and **HoHID/HHType** = tlsa_Household **HoHID/HHType.**

RRHHousedDays

This is the total number of days housed in RRH for active enrollments. RRH housed days are not counted if conflicting enrollment data shows that the household was housed in PSH.

Set **RRHHousedDays** = count of distinct **sysDate**s in sys_Time where **sysStatus** = 2 and **HoHID/HHType** = tlsa_Household **HoHID/HHType.**

SystemDaysNotPSHHoused

This is the total number of days in emergency shelter, Safe Haven, transitional housing, enrolled but not housed in RRH/PSH and/or housed in RRH – **SystemHomelessDays + RRHHousedDays**.

Set **SystemDaysNotPSHHoused**= count of distinct **sysDate**s in sys_Time where **sysStatus** in (2,3,4,5,6) and **HoHID/HHType** = tlsa_Household **HoHID/HHType.**

PSHHousedDays

This is the total number of days housed in PSH for active enrollments.

Set **PSHHHousedDays** = count of distinct **sysDate**s in sys_Time where **sysStatus** = 1 and **HoHID/HHType** = tlsa_Household **HoHID/HHType.**

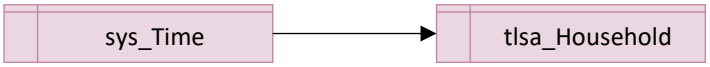
Other3917Days

This is the total number of days not already accounted for when the household reported being on the street or in ES/SH in *3.917A/B Prior Living Situation*.

Set **Other3917Days** = the sum of:

- The count of distinct **sysDate**s in sys_Time where **sysStatus** = 7 and **HoHID/HHType** = tlsa_Household **HoHID/HHType;** and
- The count of distinct dates between the earliest relevant *DateToStreetESSH* and **LastInactive** – or the difference in days between the earliest *DateToStreetESSH* and **LastInactive**, as described in section 6.12.

6.16. Update EST/RRH/PSHStatus



For any **HoHID**/**HHType** in tlsa_Household where **Stat** = 5 (continuous engagement), the household may have system use days from prior to the report period for project types other than those from the report period. This step updates the values for EST/RRH/PSHStatus to reflect that.

Relevant Data

Source

tlsa_Household
HoHID
HHType
Stat
sys_Time
HoHID
HHType
sysStatus

Target

See section 6.1 Get Distinct Households for LSAHousehold for column descriptions.

tlsa_Household

ESTStatus
RRHStatus
PSHStatus

Logic

Set **ESTStatus** = 2 (Served in contiguous period prior to report start only) where:

- **ESTStatus** = 0 and
- Any record in sys_Time for the **HoHID**/**HHType** has a **sysStatus** in (3,4)

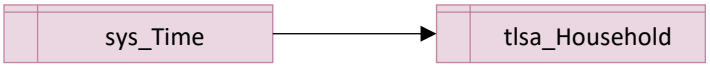
Set **RRHStatus** = 2 (Served in contiguous period prior to report start only) where:

- **RRHStatus** = 0 and
- Any record in sys_Time for the **HoHID**/**HHType** has a **sysStatus** = 6

Set **PSHStatus** = 2 (Served in contiguous period prior to report start only) where:

- **PSHStatus** = 0 and
- Any record in sys_Time for the **HoHID**/**HHType** has a **sysStatus** = 5

6.17. Set EST/RRH/PSHAHAR



The EST/RRH/PSHAHAR columns identify households relevant to the AHAR reporting universe, which is limited to those with at least one bednight during the report period.

Relevant Data

Source

tlsa_Household
HoHID
HHType
tlsa_HHID
HoHID
ActiveHHType
HouseholdID
ProjectType
MoveInDate
ExitDate
tlsa_Enrollment
PersonalID
Active

Target

See section 6.1 Get Distinct Households for LSAHousehold for column descriptions.

tlsa_Household
AHAREST
AHARRRH
AHARPSH

Logic

For households with no bed nights in the report period in a given project group, set the value to 0.

Set **ESTAHAR** = 1 for households with one or more bednights in ES/SH/TH during the report period:

- tlsa_HHID(hhid).**ActiveHHType** = **HHType**; and
- hhid.**HoHID** = **HoHID**; and
- tlsa_Enrollment(n).**HouseholdID** = hhid.**HouseholdID** and n.**PersonalID** = hhid.**HoHID**; and
- n.**Active** = 1; and
- hhid.**ExitDate** is NULL or > ReportStart; and
- hhid.**ProjectType** in (1,2,8)

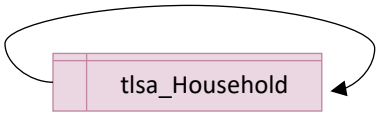
Set **RRHAHAR** = 1 for households with one or more RRH bed nights in the report period:

- tlsa_HHID(hhid).**ActiveHHType** = **HHType**; and
- hhid.**HoHID** = **HoHID**; and
- tlsa_Enrollment(n).**HouseholdID** = hhid.**HouseholdID** and n.**PersonalID** = hhid.**HoHID**; and
- n.**Active** = 1; and
- hhid.MoveInDate is not NULL; and
    - hhid.**ExitDate** is NULL;
    - hhid.**ExitDate** > ReportStart
    - hhid.**ExitDate** = hhid.**MoveInDate** and hhid.**ExitDate** = ReportStart
- hhid.**ProjectType** = 13

Set **PSHAHAR** = 1 for households with one or more PSH bed nights in the report period:

- tlsa_HHID(hhid).**ActiveHHType** = **HHType**; and
- hhid.**HoHID** = **HoHID**; and
- tlsa_Enrollment(n).**HouseholdID** = hhid.**HouseholdID** and n.**PersonalID** = hhid.**HoHID**; and
- n.**Active** = 1; and
- hhid.**MoveInDate** is not NULL; and
- hhid.**ExitDate** is NULL or hhid.**ExitDate** > ReportStart; and
- hhid.**ProjectType** = 3

6.18. Set SystemPath for LSAHousehold



The **SystemPath** column is technically redundant – it is based entirely on values in other LSAHousehold columns – but having the value in a single column simplifies the processes of populating LSACalculated and, in the HDX 2.0, generating report tables.

Relevant Data

Source

tlsa_Household
ESTStatus
ESDays

THDays
RRHStatus
PSHStatus
PSHMoveIn

Target

See section 6.1 Get Distinct Households for LSAHousehold for column description.

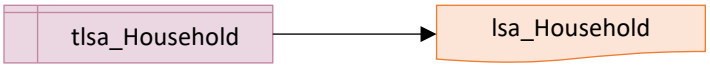
tlsa_Household
SystemPath

Logic

As noted previously, heads of household housed in PSH at ReportStart who did not enroll in any other project types during the report period are excluded from all reporting on LOTH and system path. For those households, **SystemPath** is always set to -1. The critiera for all values are listed below.

Name	SystemPath	ESTStatus	ESDays	THDays	RRHStatus	PSHStatus	PSHMoveIn
Not applicable	-1	Not in (21,22)	--	--	Not in (21,22)	--	= 2
ES/SH only	1	--	>= 1	= 0	= 0	= 0	--
TH only	2	--	= 0	>= 1	= 0	= 0	--
ES/SH + TH	3	--	>= 1	>= 1	= 0	= 0	--
RRH only	4	= 0	--	--	>= 11	= 0	--
ES/SH + RRH	5	--	>= 1	= 0	>= 2	= 0	--
TH + RRH	6	--	= 0	>= 1	>= 2	= 0	--
ES/SH + TH + RRH	7	--	>= 1	>= 1	>= 2	= 0	--
PSH only	8	= 0	--	--	= 0	>= 11	<> 2
ES/SH + PSH	9	--	>= 1	= 0	= 0	>= 11	<> 2
ES/SH + PSH	9	In (21,22)	>= 1	= 0	= 0	>= 11	= 2
ES/SH + RRH + PSH	10	--	>= 1	= 0	>= 2	>= 11	<> 2
ES/SH + RRH + PSH	10	In (21,22)	>= 1	= 0	In (21,22)	>= 11	= 2
RRH + PSH	11	= 0	--	--	>= 2	>= 11	<> 2
RRH + PSH	11	= 0	--	--	In (21,22)	>= 11	= 2
All other	12						

6.19. LSAHousehold



LSAHousehold includes 45 columns. **RowTotal** is a count of distinct combinations of **HoHID** and **HHType** from tlsa_Household, grouped by the values in all other columns.

In tlsa_Household, the following columns are populated with actual counts of days because they are needed to generate averages for LSACalculated:

ESDays	**RRHPreMoveInDays**	**SystemHomelessDays**
THDays	**RRHPSHPreMoveInDays**	**Other3917Days**
ESTDays	**RRHHousedDays**	**TotalHomelessDays**
SystemDaysNotPSHHoused		

For export, the actual counts are grouped into categories as shown below.

Value	System Use/Homeless Days	Criteria
0	0 days	[Days] = 0
7	1-7 days	[Days] between 1 and 7
30	8-30 days	[Days] between 8 and 30
60	31-60 days	[Days] between 31 and 60
90	61-90 days	[Days] between 61 and 90
180	91-180 days	[Days] between 91 and 180
365	181-365 days	[Days] between 181 and 365
547	366-547 days	[Days] between 366 and 547
730	548-730 days	[Days] between 548 and 730
1094	731-1094 days	[Days] between 731 and 1094
1095	1095 days+	[Days] > 1094

Actual values in the **PSHHousedDays** column also have to be grouped into upload categories; the groupings differ from those used for the other columns of system use days:

Value	Time Housed in PSH	Criteria
0	None	**PSHMoveIn** not in (1,2)
3	Up to 3 months	**PSHHousedDays** between 1 and 90
6	3-6 months	**PSHHousedDays** between 91 and 180
12	6-12 months	**PSHHousedDays** between 181 and 365
24	12-24 months	**PSHHousedDays** between 366 and 180
36	25-36 months	**PSHHousedDays** between 731 and 730
48	37-48 months	**PSHHousedDays** between 1096 and 1460
60	49-60 months	**PSHHousedDays** between 1461and 1825
84	5-7 years	**PSHHousedDays** between 1826 and 2555
120	8-10 years	**PSHHousedDays** between 2556 and 3650
121	10+ years	**PSHHousedDays** > 3650

All of the columns in LSAHousehold are integers; none may be NULL.

#	Column Name
1	**RowTotal**
2	**Stat**
3	**ReturnTime**
4	**HHType**
5	**HHChronic**
6	**HHVet**
7	**HHDisability**
8	**HHFleeingDV**
9	**HoHRace**
10	**HoHEthnicity**
11	**HHAdult**
12	**HHChild**
13	**HHNoDOB**
14	**HHAdultAge**
15	**HHParent**
16	**ESTStatus**
17	**ESTGeography**

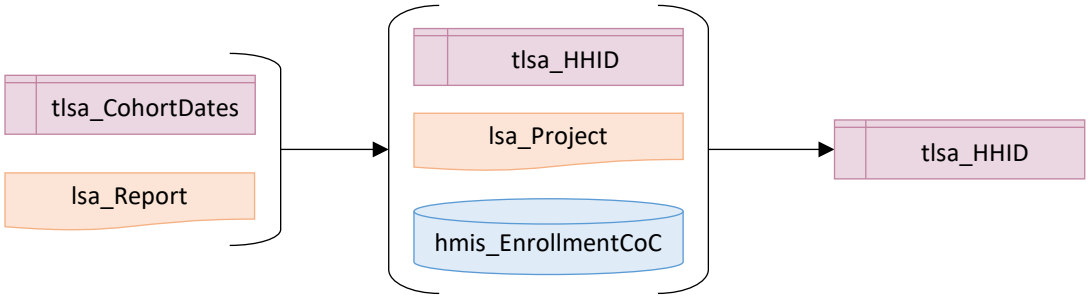
#	Column Name
18	**ESTLivingSit**
19	**ESTDestination**
20	**RRHStatus**
21	**RRHMoveIn**
22	**RRHGeography**
23	**RRHLivingSit**
24	**RRHDestination**
25	**RRHPreMoveInDays**
26	**PSHStatus**
27	**PSHMoveIn**
28	**PSHGeography**
29	**PSHLivingSit**
30	**PSHDestination**
31	**PSHHousedDays**
32	**ESDays**
33	**THDays**
34	**ESTDays**
35	**RRHPSHPreMoveInDays**
36	**RRHHousedDays**
37	**SystemDaysNotPSHHoused**
38	**SystemHomelessDays**
39	**Other3917Days**
40	**TotalHomelessDays**
41	**SystemPath**
42	**ESTAHAR**
43	**RRHAHAR**
44	**PSHAHAR**
45	**ReportID**

7. HMIS Business Logic: LSAExit

Each distinct combination of **Cohort**, the *PersonalID* for the head of household (**HoHID**), and household type (**HHType**) associated with one or more qualifying exits in the cohort period represents a single household/cohort member for LSAExit.

As with the active cohort, a household is identified based on each unique combination of HoHID/HHType. Aside from the dates, there are no differences in logic among the three exit cohorts.

7.1. Identify Qualifying Exits in Exit Cohort Periods



The objective of this step is to identify records in tlsa_HHID that represent system exits in each exit cohort period.

Relevant Data

Source

tlsa_CohortDates
Cohort
CohortStart
CohortEnd
tlsa_HHID
EnrollmentID
ProjectID
EntryDate
ExitDate
ExitDest
ActiveHHType
Exit1HHType
Exit2HHType
lsa_Project
ProjectID
hmis_EnrollmentCoC
EnrollmentID
InformationDate
CoCCode

Target

A household may have multiple qualifying exits in a given cohort period. When this is the case, reporting is based on the earliest qualifying exit to a permanent destination or, if there is no exit to a permanent destination, the earliest exit to any destination.

All qualifying exits are identified in tlsa_HHID in this step by setting the **ExitCohort** value; reportable exits are selected for each unique combination of HoHID, household type, and cohort in the next step based on the values in the **ExitCohort** and **ExitDest** columns.

tlsa_HHID
ExitCohort

Logic

Qualifying Exits

A qualifying exit is an exit from a continuum ES, SH, TH, RRH, or PSH project – limited in one of the three exit cohort periods followed by at least 14 days when the household was not active in any continuum ES, SH, TH, RRH, or PSH project.

Any given record in tlsa_HHID represents a qualifying exit (qx) when:

- qx.**ExitDate** between tlsa_CohortDates.**CohortStart** and **CohortEnd** where **Cohort** between -2 and 0
- hmis_EnrollmentCoC.*CoCCode* = ReportCoC for the most recent record associated with the qx.**EnrollmentID**
- There is no other record in tlsa_HHID where:
    - [Other].**HoHID** = qx.**HoHID**
    - Household type values match:
        - If **ExitCohort** = 0, **ActiveHHType**
        - If **ExitCohort** = -1, **Exit1HHType**
        - If **ExitCohort** = -2, **Exit2HHType**
    - [Other].**ExitDate** is NULL or [Other].**ExitDate** > qx.**ExitDate**
    - [Other]hmis_EnrollmentCoC.*CoCCode* = ReportCoC for the most recent record where *InformationDate* <= [qx.**ExitDate** + 14 days]
    - [Other].**EntryDate** < [qx.**ExitDate** + 14 days]

If lsa_Report.**LSAScope** = 2 (Project-Focused), exit cohorts are limited to households served in the projects in lsa_Project – qx.**ProjectID** in lsa_Project.**ProjectID.** This limitation does not apply to a systemwide LSA (**LSAScope** = 1).

ExitCohort

ExitCohort is set based on tlsa_CohortDates.**Cohort**.

7.2. Select Reportable Exits

LSAExit includes reporting on households with qualifying exits from a continuum ES/SH/TH/RRH/PSH projects in each of the exit cohort periods.

For households – unique combinations of **HoHID** and relevant household type – with more than one qualifying exit in a single cohort period, only one qualifying exit is reportable. The logic associated with identifying reportable exits is below.

Relevant Data

Source

tlsa_HHID
ExitCohort
ExitDest
HoHID
HouseholdID
ActiveHHType
Exit1HHType
EnrollmentID
ProjectType
EntryDate
MoveInDate
ExitDate
ExitTo

Target

tlsa_Exit	Column Description
HoHID	*PersonalID* for heads of active households; distinct combinations of **HoHID**, **HHType**, and **Cohort** serve as a primary key.
QualifyingExitHHID	From tlsa_HHID, the *HouseholdID* for household's first exit to permanent housing in the cohort period, or – if the household does not have an exit to permanent housing – the first qualifying exit to any destination type.
LastInactive	The most recent date prior to the *EntryDate* for the qualifying exit on which the household had not been active in a continuum ES/SH/TH/RRH/PSH project for 7 or more days.
Cohort	Identifier for the cohort in which the exit occurs – from tlsa_HHID.**ExitCohort**.
Stat	The household status related to continuum engagement in the two years prior to the *EntryDate* for the qualifying exit.
ExitFrom	Identifies the project type from which household exited and, for RRH/PSH, distinguishes between exits after a permanent housing placement (*MoveInDate*) and exits without placement.
ExitTo	Identifies the exit destination for the qualifying exit (from tlsa_HHID **QXDestination**)
ReturnTime	For households with at least one enrollment in a continuum ES/SH/TH/RRH/PSH projects in the 15-720 days after the qualifying exit, the number of days between the qualifying exit date and the earliest subsequent *EntryDate*.
HHVet	Identifies whether or not the household includes a veteran.
HHDisability	Identifies whether or not the head of household or any adult household member was identified as having a disabling condition on the enrollment associated with the qualifying exit.
HHFleeingDV	Identifies whether or not the head of household or any adult member was identified as fleeing domestic violence on the enrollment associated with the qualifying exit.
HoHRace	Identifies race for head of household.
HoHEthnicity	Identifies ethnicity for head of household.
HHAdultAge	The age groups of adult household members. The categories are mutually exclusive (a household can only fall into one group) and inclusive (every household with adults will fall into one group).

HHParent	Identifies whether or not any household member has RelationshiptoHoH = 2 (child of the HoH) on any active enrollment in the cohort period.
AC3Plus	Identifies AC households that include 3 or more children on any active enrollment in the cohort period.
SystemPath	The combinations of system use during the cohort period and in the continuous periods of service prior to the cohort period – i.e., the 'path' through the system. It is not dependent on the sequence of service. Categories are mutually exclusive.
ReportID	From lsa_Report

Logic

Exit Households

LSAExit reporting is based on a single record in tlsa_Exit for each unique combination of:

- tlsa_HHID.**ExitCohort**; and
- tlsa_HHID.**HoHID** - the HoHID from tlsa_HHID for each household with a qualifying exit in the cohort period; and
- Household Type:
    - If **ExitCohort** = 0, **ActiveHHType**
    - If **ExitCohort** = -1, **Exit1HHType**
    - If **ExitCohort** = -2, **Exit2HHType**

QualifyingExitHHID

The **QualifyingExitHHID** for an exit household is the tlsa_HHID.**HouseholdID** associated with:

- The earliest qualifying exit to a permanent destination / earliest **ExitDate** where **ExitDest** between 1 and 6; or
- If there is no qualifying exit to a permanent destination, the earliest exit to a temporary destination / earliest **ExitDate** where **ExitDest** between 7 and 14; or
- If there is no qualifying exit to an identified temporary destination, the earliest qualifying exit.

In the event that there are two or more enrollments with the same exit date within a given destination category:

- Select the one with the lowest **ExitDest** value; or
- If multiple enrollments have the same exit date and **ExitDest** value, select the one with the earliest entry date; or
- If multiple enrollments have the same exit date, **ExitDest** value, and entry date, select the one with the highest **EnrollmentID**.

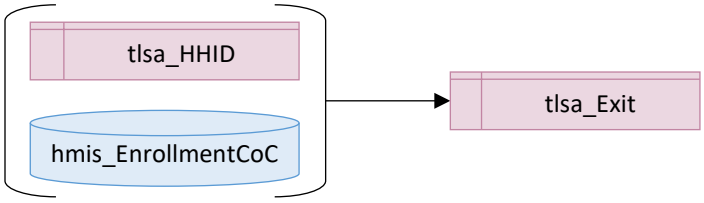
ExitFrom

Crosswalk tlsa_HHID.**ProjectType** and tlsa_HHID **MoveInDate** for the reportable exit to the appropriate **ExitFrom** value below.

ProjectType	MoveInDate	ExitFrom Value	ExitFrom Category Description
1	n/a	2	ES
2	n/a	3	TH
8	n/a	4	SH
13	Not NULL	5	RRH after move-in to PH
3	Not NULL	6	PSH after move-in to PH

ProjectType	MoveInDate	ExitFrom Value	ExitFrom Category Description
13	NULL	7	RRH without placement in PH
3	NULL	8	PSH without placement in PH

7.3. Set ReturnTime for Exit Cohort Households



Relevant Data

Source

tlsa_HHID
HoHID
ActiveHHType
Exit1HHType
Exit2HHType
EntryDate
ExitDate
hmis_EnrollmentCoC
EnrollmentID
InformationDate
CoCCode
tlsa_Exit
HHType
Cohort

Target

tlsa_Exit
ReturnTime

Logic

Household Returns

A household is reported as a return if there is a later enrollment for the household in tlsa_HHID after the qualifying exit (qx) where:

- [Return].**HoHID** = tlsa_Exit.**HoHID**
- [Return].**EntryDate** between [qx.**ExitDate** + 15 days] and [qx.**ExitDate** + 730 days]
- There is an EnrollmentCoC record for the return enrollment where *InformationDate* = **EntryDate** and *CoCCode* = ReportCoC
- The household type matches tlsa_Exit.**HHType** for the tlsa_Exit.**Cohort**:
    - If **Cohort** = 0, **ActiveHHType**
    - If **Cohort** = -1, **Exit1HHType**
    - If **Cohort** = -2, **Exit2HHType**

ReturnTime

If there is no later enrollment that meets the criteria for a household return, set **ReturnTime** = -1.

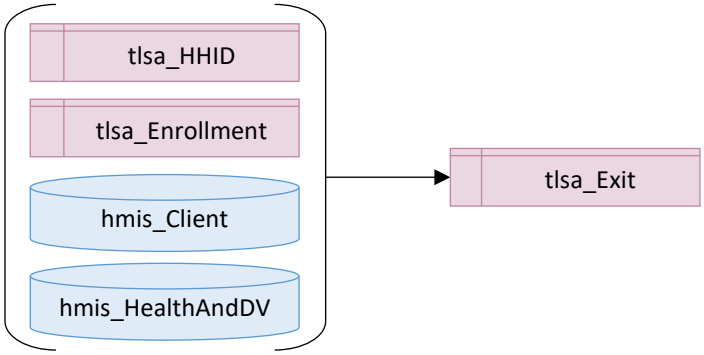
Otherwise, **ReturnTime** is the number of days between

1. The **ExitDate** for the **QualifyingExitHHID** and
2. The **EntryDate** for the earliest return enrollment.

The value should be set in tlsa_Exit to the actual number of days to return and NOT the associated upload value; the actual number of days are needed to generate averages for LSACalculated.

> **Note**: Both LSAHousehold/tlsa_Household and LSAExit/tlsa_Exit have columns named **Stat** and **ReturnTime**.
>
> For both, **Stat** is determined based on a household's system use **prior to** active enrollments (tlsa_Household) or a qualifying exit (tlsa_Exit).
>
> The logic associated with **ReturnTime** is different, however:
>
> - In tlsa_Household, **ReturnTime** is associated with **Stat** and specifies the length of time between enrollment activity *prior to active enrollments* and the earliest active enrollment.
> - In tlsa_Exit, **ReturnTime** is not associated with **Stat** – it specifies the length of time *after the qualifying exit***.**

7.4. Set Population Identifiers for Exit Cohort Households



As with the active cohort, population identifiers for exit cohort households are based on the characteristics of all household members.

The underlying logic associated with setting population identifiers for exit cohort households is the same as that for active cohort households with the following exceptions:

- Only data from the enrollment associated with the *HouseholdID* of the qualifying exit is used (as opposed to all enrollments active in the report period).
- There is no exit cohort reporting for the Chronically Homeless Households population, so it is not necessary to determine CH status.

In practice, because there is no person-level reporting for exit cohorts, the population identifiers can be set for the household without the intermediate step of setting detailed values for each person.

Relevant Data

Source

tlsa_HHID
HouseholdID
tlsa_Enrollment
EnrollmentID
PersonalID
HouseholdID
EntryDate
RelationshipToHoH
DisablingConditions
ActiveAge
Exit1Age
Exit2Age
hmis_Client
PersonalID
Race
Ethnicity
VeteranStatus
hmis_HealthAndDV
EnrollmentID
DomesticViolenceVictim
CurrentlyFleeing

Target

tlsa_Exit
HouseholdID
HHVet
HHDisability
HHFleeingDV
HHAdultAge
HHParent
AC3Plus

Logic

HHVet

Set **HHVet** = 1 if any adult household member has a *VeteranStatus* of 1. Otherwise, **HHVet** = 0.

HHDisability

Set **HHDisability**= 1 if the HoH or any adult household member has a *DisablingCondition* = 1 for the enrollment associated with the qualifying exit. Otherwise, **HHDisability**= 0.

HHFleeingDV

Set **HHFleeingDV** = 1 if the HoH or any adult household member has a record associated with the enrollment associated with the qualifying exit where *DomesticViolenceVictim* = 1 and *CurrentlyFleeing* = 1. Otherwise, set **HHFleeingDV** = 0

HoHRace

Crosswalk HMIS *Race* values for the head of household and set **HoHRace** to the first LSA value in the table below:

Priority	HMIS Race Values	LSA Value	LSA Category
1	*Client doesn't know* (8) or *Client refused* (9)	98	Client doesn't know/refused
2	*Data not collected* (99) or no race selected	99	Missing/invalid
3	Two or more *Race* values selected	6	Multiple Races
4	*White* (5) is the only race selected and Ethnicity <> 1	0	White, non-Hispanic/Latino
4	*White* (5) is the only race selected and Ethnicity = 1 (Hispanic/Latino)	1	White, Hispanic/Latino
4	*Black or African American* (3) is the only race selected	2	Black or African American
4	*Asian* (2) is the only race selected	3	Asian
4	*American Indian or Alaska Native* (1) is the only race selected	4	American Indian or Alaska Native
4	*Native Hawaiian or Other Pacific Islander* (4) is the only race selected	5	Native Hawaiian / Other Pacific Islander

HoHEthnicity

Crosswalk HMIS *Ethnicity* values for the head of household as follows:

HMIS Value	HMIS Category	LSA Value	LSA Category
0	Non-Hispanic/Latino	0	Non-Hispanic/Latino
1	Hispanic/Latino	1	Hispanic/Latino
8	Client doesn't know	98	Client doesn't know/refused
9	Client refused	98	Client doesn't know/refused
(any other)	Any other, including NULL	99	Unknown

HHAdultAge

Set **HHAdultAge** based on the ages of all household members as of the later of *EntryDate* and CohortStart using the first / topmost of the criteria below appropriate to the household:

Upload Value	Criteria
-1	The maximum of all ages is >= 98 (one or more unknown ages)
-1	The maximum of all ages values is <= 17 (no adults in household)
18	The maximum of all ages is 21 (all adults are between 18 and 21)
24	The maximum of all ages is 24 (all adults are under 25)
55	The minimum of all ages is between 55 and 65 (all members are 55+)
25	(all other households)

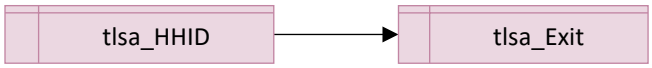
HHParent

Set **HHParent** = 1 if at least one household member has a *RelationshipToHoH* = 2 (Child of HoH).

AC3Plus

Set **AC3Plus** = 1 if **HHType** = 2 (AC) and there are three or more household members under the age of 18. Otherwise, **AC3Plus** = 0.

7.5. Set System Engagement Status for Exit Cohort Households



System engagement status specifies whether or not active households were actively engaged with continuum ES, SH, TH, RRH, and/or PSH projects in the two years prior to their earliest active date in the report period in the following categories:

Value	Stat
1	First-time homeless
2	Return to continuum 15-730 days after exit to permanent destination
3	Re-engage with continuum 15-730 days after exit to temporary destination
4	Re-engage with continuum 15-730 days after exit to unknown destination
5	Continuous engagement with continuum

Relevant Data

Source

tlsa_HHID
HoHID
ActiveHHType
Exit1HHType
Exit2HHType
EntryDate
ExitDate

Target

tlsa_Exit
Stat

Logic

Previous Activity

System engagement status is based on the EntryDate for the qualifying exit (qx) and, if it exists, the tlsa_HHID record with the most recent (effective) **ExitDate** prior to the **ExitDate** for the qualifying exit (qx)where:

- [Previous].**HoHID** = tlsa_Exit.**HoHID**
- [Previous].**EntryDate** < qx.**EntryDate**
- [Previous]**.ExitDate** between [qx.**EntryDate** – 730 days] and [qx.**ExitDate**]
- The household type matches tlsa_Exit.**HHType** for the tlsa_Exit.**Cohort**:
    - If **Cohort** = 0, **ActiveHHType**
    - If **Cohort** = -1, **Exit1HHType**
    - If **Cohort** = -2, **Exit2HHType**

In the event that there are two or more enrollments with the same (most recent) exit date:

- Select the one with the lowest **ExitDest** value; or
- If multiple enrollments have the same exit date and **ExitDest** value, select the one with the most recent entry date; or
- If multiple enrollments have the same exit date, **ExitDest** value, and entry date, select the one with the highest **EnrollmentID**.

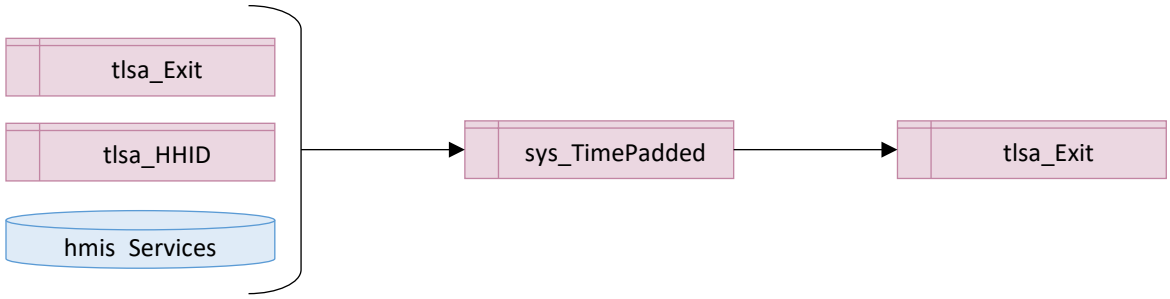
Stat

If the household had no previous activity consistent with the criteria above, or if the household had previous activity in the 14 days prior to the **EntryDate** for the reportable exit, **Stat** is set regardless of the exit destination for the previous activity.

Otherwise – if the household has an exit 15-730 days prior to the enrollment for the reportable exit – **Stat** is determined by the exit destination for the previous enrollment.

Priority	Stat	Category	Other Condition
1	1	First-time homeless	(There is no tlsa_HHID record that meets the criteria for previous activity.)
1	5	Continuous engagement with continuum	[Previous].**ExitDate** > [qx.**EntryDate** – 15 days]
2	2	Return 15-730 days after exit to permanent destination	[Previous].**ExitDest** between 1 and 6
2	3	Re-engage 15-730 days after exit to temporary destination	[Previous].**ExitDest** between 7 and 14
2	4	Re-engage 15-730 days after exit to unknown destination	(any other)

7.6. Last Inactive Date for Exit Cohorts



RelevantData

tlsa_Exit
Cohort
HoHID
HHType
tlsa_HHID
HoHID
ActiveHHType
Exit1HHType
Exit2HHType
EntryDate

ExitDate
hmis_Services
EnrollmentID
BedNightDate (*DateProvided* where *RecordType* = 200)

Targets

sys_TimePadded	Column Description
Cohort	From tlsa_Exit
HoHID	From tlsa_Exit
HHType	From tlsa_Exit
StartDate	• For tlsa_HHID **EnrollmentID**s in night-by-night ES, each *BedNightDate* associated with the enrollment between 10/1/2012 and **CohortEnd** • For all other tlsa_HHID enrollments, the **EntryDate**
EndDate	• For tlsa_HHID **EnrollmentID**s in night-by-night ES, the earlier of [**StartDate** + 6 days] or **CohortEnd** • For all other tlsa_HHID enrollments, the earlier non-NULL of [**ExitDate** + 6 days] or **CohortEnd**

tlsa_Exit
LastInactive

Logic

This step identifies, based on the qualifying exit and potentially relevant inactive enrollments from the previous step, the date immediately prior to the first day of continuous system engagement for exit cohort households – or the household's last inactive date prior to the qualifying exit.

Specifically, this is the latest date in the most recent period of at least seven nights during which a household was not enrolled in a continuum ES, SH, TH, RRH, or PSH project. Enrollments in tlsa_HHID that occurred between the last inactive date and the **EntryDate** for the reportable exit are part of the household's **SystemPath** if they have the same **HoHID** and there is a match for household type:

- If tlsa_Exit.**Cohort** = 0, **ActiveHHType**
- If tlsa_Exit.**Cohort** = -1, **Exit1HHType**
- If tlsa_Exit.**Cohort** = -2, **Exit2HHType**

LastInactive is the later of 9/30/2012 and the most recent date where:

- [Date] < tlsa_Exit.**EntryDate**
- [Date] is not between a *BedNightDate* and (*BedNightDate* + 6 days); and
- [Date] is not between a tlsa_HHID.**EntryDate** and the associated (**ExitDate** + 6 days) for project types other than ES nbn.

7.7. Set SystemPath for LSAExit

Relevant Data

Source

tlsa_Exit
HoHID
HHType
Cohort
LastInactive
tlsa_HHID
HoHID
ActiveHHType
Exit1HHType
Exit2HHType
EntryDate
ExitDate
ProjectType
EntryDate
ExitDate

Target

tlsa_Exit
SystemPath

Logic

SystemPath is not relevant for households who were housed in PSH as of **CohortStart** or for households who had been housed in RRH or PSH for at least 365 days as of the date of the qualifying exit.

Set **SystemPath** = -1 for:

- Any record in tlsa_Exit where **ExitFrom** = 6 (PSH after move-in to PH) and tlsa_HHID.**MoveInDate** for the qualifying exit < **CohortStart.**
- Any record in tlsa_Exit where **ExitFrom** in (5,6) (RRH/PSH after move-in to PH) and tlsa_HHID.**MoveInDate** for the qualifying exit is 365 days or more prior to the qualifying exit date.

For all other records in tlsa_Exit, set **SystemPath** based on the combination of **ProjectTypes** in tlsa_HHID where:

- **HoHID =** tlsa_Exit.**HoHID**; and
- **EntryDate** > tlsa_Exit.**LastInactive**; and
- **EntryDate** <= the **ExitDate** for the qualifying exit; and
- tlsa_Exit.HHType =
    - If **ExitCohort** = 0, **ActiveHHType**
    - If **ExitCohort** = -1, **Exit1HHType**
    - If **ExitCohort** = -2, **Exit2HHType**

SystemPath	SystemPath Project Types	tlsa_HHID ProjectType(s)
1	ES/SH	in (1,8) and not in (2,3,13)
2	TH	= 2 and

		not in (1,3,8,13)
3	ES/SH + TH	= 2 and in (1,8) and Not in (3,13)
4	RRH	= 13 and not in (1,3,8,2)
5	ES/SH + RRH	= 13 and in (1,8) and not in (2,3)
6	TH + RRH	= 2 and = 13 and Not in (1,8,3)
7	ES/SH + TH + RRH	= 2 and in (1,8) and = 13 and <> 3
8	PSH	= 3 and Not in (1,2,8,13)
9	ES/SH + PSH	= 3 and in (1,8) and Not in (2,13)
10	ES/SH + RRH + PSH	In (1,8) and = 13 and = 3 and <> 2
11	RRH + PSH	= 3 and = 13 and Not in (1,2,8)
12	All other combinations	

7.8. LSAExit

LSAExit includes 17 columns. **RowTotal** is a count of distinct combinations of **Cohort, HoHID** and **HHType** from tlsa_Exit, grouped by the values in all other columns.

In tlsa_Exit, **ReturnTime** is populated with actual counts of days because they are needed to generate averages for LSACalculated. For export, the actual counts are grouped into categories as shown below.

Value	Return Time	From	To
-1	Not applicable	-1	-1
30	15-30 days	15	30
60	31-60 days	31	60
90	61-90 days	61	90
180	91-180 days	91	180
365	181-365 days	181	365
547	366-547 days	366	547
730	548-730 days	548	730

All of the columns in LSAExit are integers; none may be NULL.

#	Column Name
1	**RowTotal**
2	**Cohort**
3	**Stat**
4	**ExitFrom**
5	**ExitTo**
6	**ReturnTime** (group as shown above)
7	**HHType**
8	**HHVet**
9	**HHDisability**
10	**HHFleeingDV**

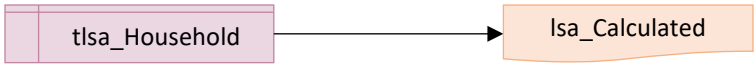
#	Column Name
11	**HoHRace**
12	**HoHEthnicity**
13	**HHAdultAge**
14	**HHParent**
15	**AC3Plus**
16	**SystemPath**
17	**ReportID**

8. HMIS Business Logic: LSACalculated

As in LSAHousehold, LSAPerson, and LSAExit, records are only included in LSACalculated if there are records in the raw data that represent the combination of household type, population, cohort, etc.

- Averages are only included if there is at least one record where the value in the source column is greater than zero for at least one household represented by the combination of household type, population, etc.
- Counts are only included if they are greater than zero.

8.1. Get Average Days for Length of Time Homeless



ReportRow, SystemPath and Source Columns for Value

For each **ReportRow** listed below, **Value** = the average of [Source Column] from tlsa_Household where [Source Column] > 0, rounded to the nearest whole number, or the result of a built-in AVERAGE or AVG function in a database that returns an integer when the datatype of the parameter is *integer*.

Report Row Category	Source Column	ReportRow
Days in ES/SH	**ESDays**	1
Days in TH	**THDays**	2
Days in ES/SH or TH	**ESTDays**	3
Days in RRH/PSH pre-move-in (excluding those overlapping with ES/SH/TH days)	**RRHPSHPreMoveInDays**	4
Days documented in ES/SH/TH or RRH/PSH pre-move-in total	**SystemHomelessDays**	5
Days homeless self-reported in 3.917 (excluding those overlapping with ES/SH/TH or RRH/PSH pre-move-in days)	**Other3917Days**	6
Days homeless total	**TotalHomelessDays**	7
Days housed in RRH	**RRHHousedDays**	8
Days documented homeless or housed in RRH total (excluding self-reported time)	**SystemDaysNotPSHHoused**	9

The value of **SystemPath** should be -1 for these records.

Population and HHType

Required populations and household types for rows 1-9 are shown in the table below.

- The ID column is the **Population** value for the LSACalculated file.
- The Household Population column provides a brief description based on the population identifier set in LSAHousehold.
- The **HHType** column indicates the household types for which the population is relevant.
    - Zero (0) represents a count of all records that meet the criteria, regardless of household type.
    - The value for **HHType** in LSACalculated should use the values shown below, based on tlsa_Household.**HHType**.
- The Criteria column shows other column values required – in combination with the household type – to identify the population.

When a report row is required in LSACalculated for any given population, values should be produced for all household types listed in the **HHType** column for the population that occur in LSAHousehold with a non-zero value in the source column.

ID	Household Population	HHType	tlsa_Household Criteria
0	All	0,1,2,3,99	-
1	Unaccompanied Youth 18-21	1	**HHAdultAge** = 18
2	Unaccompanied Youth 22-24	1	**HHAdultAge** = 24
3	Veteran	0,1,2,99	**HHVet** = 1
4	Non-Veteran 25+	1	**HHVet** = 0 and **HHAdultAge** in (25,55)
5	Disabled Adult/HoH	0,1,2,3,99	**HHDisability** = 1
6	Chronically Homeless Adult/HoH	0,1,2,3,99	**HHChronic** = 1
7	Fleeing Domestic Violence	0,1,2,3,99	**HHFleeingDV** = 1
8	Senior 55+	1	**HHAdultAge** = 55
9	Parenting Youth 18-24	2	**HHParent** = 1 and **HHAdultAge** in (18,24)
10	Parenting Child	3	**HHParent** = 1
11	AC Household with 3+ Children	2	**HHChild** = 3
12	First Time Homeless	0,1,2,3,99	**Stat** = 1
13	Return After Exit to PH	0,1,2,3,99	**Stat** = 2
14	Move-In to PSH in Report Period	0,1,2,3,99	**PSHMoveIn** = 1
15	White, non-Hispanic/Latino HoH	0,1,2,3,99	**HoHRace** = 0
16	White, Hispanic/Latino HoH	0,1,2,3,99	**HoHRace** = 1
17	Black or African American HoH	0,1,2,3,99	**HoHRace** = 2
18	Asian HoH	0,1,2,3,99	**HoHRace** = 3
19	American Indian/Alaska Native HoH	0,1,2,3,99	**HoHRace** = 4
20	Native Hawaiian/Other Pacific Islander HoH	0,1,2,3,99	**HoHRace** = 5
21	Multi-Racial HoH	0,1,2,3,99	**HoHRace** = 6
22	Non-Hispanic/Latino HoH	0,1,2,3,99	**HoHEthnicity** = 0
23	Hispanic/Latino HoH	0,1,2,3,99	**HoHEthnicity** =1
39	Youth 18-21 - Disabled Adult/HoH	1	**HHAdultAge** = 18 and **HHDisability** = 1
40	Youth 18-21 - Fleeing Domestic Violence	1	**HHAdultAge** = 18 and **HHFleeingDV** = 1
41	Youth 18-21 - First Time Homeless	1	**HHAdultAge** = 18 and **Stat** = 1
42	Youth 18-21 - Returning after Exit to PH	1	**HHAdultAge** = 18 and **Stat** = 2
43	Youth 18-21 - PSH Move-In During Report Period	1	**HHAdultAge** = 18 and **PSHMoveIn** = 1
44	Youth 18-21 - White, non-Hispanic/Latino HoH	1	**HHAdultAge** = 18 and **HoHRace** = 0
45	Youth 18-21 - White, Hispanic/Latino HoH	1	**HHAdultAge** = 18 and **HoHRace** = 1
46	Youth 18-21 - Black or African American HoH	1	**HHAdultAge** = 18 and **HoHRace** = 2
47	Youth 18-21 - Asian HoH	1	**HHAdultAge** = 18 and **HoHRace** = 3
48	Youth 18-21 - American Indian/Alaska Native HoH	1	**HHAdultAge** = 18 and **HoHRace** = 4
49	Youth 18-21 - Native Hawaiian/Other Pacific Islander HoH	1	**HHAdultAge** = 18 and **HoHRace** = 5
50	Youth 18-21 - Multi-Racial HoH	1	**HHAdultAge** = 18 and **HoHRace** = 6
51	Youth 18-21 - Non-Hispanic/Latino HoH	1	**HHAdultAge** = 18 and **HoHEthnicity** = 0
52	Youth 18-21 - Hispanic/Latino HoH	1	**HHAdultAge** = 18 and **HoHEthnicity** =1

ID	Household Population	HHType	tlsa_Household Criteria
53	Youth 22-24 - Disabled Adult/HoH	1	**HHAdultAge** = 24 and **HHDisability** = 1
54	Youth 22-24 - Fleeing Domestic Violence	1	**HHAdultAge** = 24 and **HHFleeingDV** = 1
55	Youth 22-24 - First Time Homeless	1	**HHAdultAge** = 24 and **Stat** = 1
56	Youth 22-24 - Returning after Exit to PH	1	**HHAdultAge** = 24 and **Stat** = 2
57	Youth 22-24 - PSH Move-In During Report Period	1	**HHAdultAge** = 24 and **PSHMoveIn** = 1
58	Youth 22-24 - White, non-Hispanic/Latino HoH	1	**HHAdultAge** = 24 and **HoHRace** = 0
59	Youth 22-24 - White, Hispanic/Latino HoH	1	**HHAdultAge** = 24 and **HoHRace** = 1
60	Youth 22-24 - Black or African American HoH	1	**HHAdultAge** = 24 and **HoHRace** = 2
61	Youth 22-24 - Asian HoH	1	**HHAdultAge** = 24 and **HoHRace** = 3
62	Youth 22-24 - American Indian/Alaska Native HoH	1	**HHAdultAge** = 24 and **HoHRace** = 4
63	Youth 22-24 - Native Hawaiian/Other Pacific Islander HoH	1	**HHAdultAge** = 24 and **HoHRace** = 5
64	Youth 22-24 - Multi-Racial HoH	1	**HHAdultAge** = 24 and **HoHRace** = 6
65	Youth 22-24 - Non-Hispanic/Latino HoH	1	**HHAdultAge** = 24 and **HoHEthnicity** = 0
66	Youth 22-24 - Hispanic/Latino HoH	1	**HHAdultAge** = 24 and **HoHEthnicity** =1
67	Non-Veteran 25+ - Disabled Adult/HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HHDisability** = 1
68	Non-Veteran 25+ - Fleeing Domestic Violence	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HHFleeingDV** = 1
69	Non-Veteran 25+ - First Time Homeless	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **Stat** = 1
70	Non-Veteran 25+ - Returning after Exit to PH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **Stat** = 2
71	Non-Veteran 25+ - with PSH Move-In During Report Period	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **PSHMoveIn** = 1
72	Non-Veteran 25+ - White, non-Hispanic/Latino HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 0
73	Non-Veteran 25+ - White, Hispanic/Latino HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 1
74	Non-Veteran 25+ - Black or African American HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 2
75	Non-Veteran 25+ - Asian HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 3
76	Non-Veteran 25+ - American Indian/Alaska Native HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 4
77	Non-Veteran 25+ - Native Hawaiian/Other Pacific Islander HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 5
78	Non-Veteran 25+ - Multi-Racial HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 6
79	Non-Veteran 25+ - Non-Hispanic/Latino HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHEthnicity** = 0
80	Non-Veteran 25+ - Hispanic/Latino HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHEthnicity** =1
81	Veteran - Disabled Adult/HoH	0,1,2,99	**HHVet** = 1 and **HHDisability** = 1

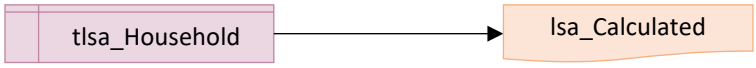
ID	Household Population	HHType	tlsa_Household Criteria
82	Veteran - Fleeing Domestic Violence	0,1,2,99	**HHVet** = 1 and **HHFleeingDV** = 1
83	Veteran - First Time Homeless	0,1,2,99	**HHVet** = 1 and **Stat** = 1
84	Veteran - Returning after Exit to PH	0,1,2,99	**HHVet** = 1 and **Stat** = 2
85	Veteran - PSH Move-In During Report Period	0,1,2,99	**HHVet** = 1 and **PSHMoveIn** = 1
86	Veteran - White, non-Hispanic/Latino HoH	0,1,2,99	**HHVet** = 1 and **HoHRace** = 0
87	Veteran - White, Hispanic/Latino HoH	0,1,2,99	**HHVet** = 1 and **HoHRace** = 1
88	Veteran - Black or African American HoH	0,1,2,99	**HHVet** = 1 and **HoHRace** = 2
89	Veteran - Asian HoH	0,1,2,99	**HHVet** = 1 and **HoHRace** = 3
90	Veteran - American Indian/Alaska Native HoH	0,1,2,99	**HHVet** = 1 and **HoHRace** = 4
91	Veteran - Native Hawaiian/Other Pacific Islander HoH	0,1,2,99	**HHVet** = 1 and **HoHRace** = 5
92	Veteran - Multi-Racial HoH	0,1,2,99	**HHVet** = 1 and **HoHRace** = 6
93	Veteran - Non-Hispanic/Latino HoH	0,1,2,99	**HHVet** = 1 and **HoHEthnicity** = 0
94	Veteran - Hispanic/Latino HoH	0,1,2,99	**HHVet** = 1 and **HoHEthnicity** =1
95	Veteran 55+	0,1,2	**HHVet** = 1 and **HHAdultAge** = 55
96	Non-Veteran 55+	1	**HHVet** = 0 and **HHAdultAge** = 55

Cohort, Universe, and ProjectID

For all LOTH averages, the value of **Cohort** is 1 and the value of **Universe** is -1.

ProjectID is NULL.

8.2. Get Average Days for Length of Time Homeless by System Path



ReportRow, SystemPath, and Source Columns for Value

For each **ReportRow** listed below, **Value** = the average of [Source Column] from tlsa_Household where [Source Column] > 0, rounded to the nearest whole number, or the result of a built-in AVERAGE or AVG function in a database that returns an integer when the datatype of the parameter is *integer*.

The averages for LSACalculated are grouped by the **SystemPath** values from LSAHousehold.

Report Row Category	Source Column and Criteria	ReportRow
Days in ES/SH	**ESDays** where **SystemPath** in (1,3,5,7,9,10,12)	1
Days in TH	**THDays** where **SystemPath** in (2,3,6,7,12)	2
Days in ES/SH or TH	**ESTDays** where **SystemPath** in (3,7,12)	3
Days in RRH/PSH pre-move-in (excluding those overlapping with ES/SH/TH days)	**RRHPSHPreMoveInDays** where **SystemPath** in (4,5,6,7,8,9,10,11,12)	4
Days documented in ES/SH/TH or RRH/PSH pre-move-in total	**SystemHomelessDays** where **SystemPath** in (5,6,7,8,9,10,11,12)	5
Days homeless self-reported in 3.917 (excluding those overlapping with ES/SH/TH or RRH/PSH pre-move-in days)	**Other3917Days** where **SystemPath** <> -1	6
Days homeless total	**TotalHomelessDays** where **SystemPath** <> -1	7

Report Row Category	Source Column and Criteria	ReportRow
Days housed in RRH	**RRHHousedDays** where **SystemPath** in (4,5,6,7,10,11,12)	8
Days documented homeless or housed in RRH total (excluding self-reported time)	**SystemDaysNotPSHHoused** where **SystemPath** <> -1	9

Population and HHType

Generate rows 10-11 for each of the following populations and household types.

The **HHType** column indicates the household types for which the population is relevant.

- Zero (0) represents a count of all records that meet the criteria, regardless of household type.
- The value for **HHType** in LSACalculated should use the values shown below, based on tlsa_Household.**HHType**.

When a report row is required in LSACalculated for any given population, values should be produced for all household types listed in the **HHType** column for the population that occur in LSAHousehold with a non-zero value in the source column.

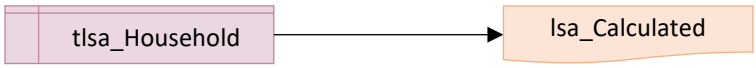
ID	Household Population	HHType	tlsa_Household Criteria
0	All	0,1,2,3,99	-
1	Youth 18-21	1	**HHAdultAge** = 18
2	Youth 22-24	1	**HHAdultAge** = 24
3	Veteran	0,1,2,99	**HHVet** = 1
4	Non-Veteran 25+	1	**HHVet** = 0 and **HHAdultAge** in (25,55)

Cohort, Universe, and ProjectID

For all LOTH averages, the value of **Cohort** is 1 and the value of **Universe** is -1.

ProjectID is NULL.

8.3. Get Average Days for Cumulative Length of Time Housed in PSH



ReportRow, SystemPath and Source Columns for Value

For each **ReportRow** listed below, **Value** = the average of [Source Column] from tlsa_Household where [Source Column] > 0, rounded to the nearest whole number, or the result of a built-in AVERAGE or AVG function in a database that returns an integer when the datatype of the parameter is *integer*.

Report Row Category	Source Column and Criteria	ReportRow
Days housed in PSH – exited in report period	**PSHHousedDays** (where **PSHMoveIn** in (1,2) and **PSHStatus** in (12,22))	10
Days housed in PSH – housed at report end	**PSHHousedDays** (where **PSHMoveIn** in (1,2) and **PSHStatus** in (11,21))	11

The value of **SystemPath** should be -1 for these records.

Population and HHType

Generate rows 10-11 for each of the following populations and household types.

The **HHType** column indicates the household types for which the population is relevant.

- Zero (0) represents a count of all records that meet the criteria, regardless of household type.
- The value for **HHType** in LSACalculated should use the values shown below, based on tlsa_Household.**HHType**.

When a report row is required in LSACalculated for any given population, values should be produced for all household types listed in the **HHType** column for the population that occur in LSAHousehold with a non-zero value in the source column.

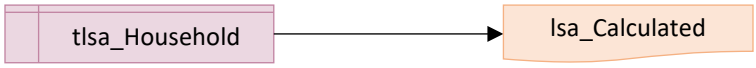
ID	Household Population	HHType	tlsa_Household Criteria
0	All	0,1,2,3,99	-
1	Youth 18-21	1	**HHAdultAge** = 18
2	Youth 22-24	1	**HHAdultAge** = 24
3	Veteran	0,1,2,99	**HHVet** = 1
4	Non-Veteran 25+	1	**HHVet** = 0 and **HHAdultAge** in (25,55)

Cohort, Universe, and ProjectID

For all LOTH averages, the value of **Cohort** is 1 and the value of **Universe** is -1.

ProjectID is NULL.

8.4. Get Average Days for Length of Time in RRH Projects



ReportRow, SystemPath and Source Columns for Value

For each **ReportRow** listed below, **Value** = the average of [Source Column] from tlsa_Household where [Source Column] > 0, rounded to the nearest whole number, or the result of a built-in AVERAGE or AVG function in a database that returns an integer when the datatype of the parameter is *integer*.

Report Row Category	Source Column and Criteria	ReportRow
RRH start to exit for households not placed in PH before exiting	**RRHPreMoveInDays** where **RRHStatus** in (12,22) and **RRHMoveIn** in = 0	12
RRH start to report end for active households not yet placed in PH	**RRHPreMoveInDays** where **RRHStatus** in (11, 21) and **RRHMoveIn** in = 0	13
RRH start to move-in for all households placed in PH	**RRHPreMoveInDays** where **RRHMoveIn** in (1,2) and **RRHStatus** > 2	14
RRH move-in to exit for households placed before exiting	**RRHHousedDays** where **RRHStatus** in (12,22) and **RRHMoveIn** in (1,2)	15
RRH move-in to report end for active households placed in PH	**RRHHousedDays** where **RRHStatus** in (11,21) and **RRHMoveIn** in (1,2)	16

The value of **SystemPath** should be -1 for these records.

Population and HHType

Generate rows 12-16 for each of the following populations and household types.

- The **HHType** column indicates the household types for which the population is relevant.
    - Zero (0) represents a count of all records that meet the criteria, regardless of household type.

- The value for **HHType** in LSACalculated should use the values shown below, based on tlsa_Household.**HHType**.

When a report row is required in LSACalculated for any given population, values should be produced for all household types listed in the **HHType** column for the population that occur in LSAHousehold with a non-zero value in the source column.

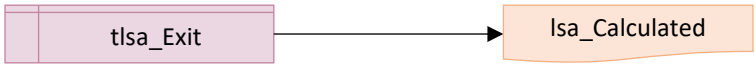
ID	Household Population	HHType	tlsa_Household Criteria
0	All	0,1,2,3,99	-
1	Youth 18-21	1	**HHAdultAge** = 18
2	Youth 22-24	1	**HHAdultAge** = 24
3	Veteran	0,1,2,99	**HHVet** = 1
4	Non-Veteran 25+	1	**HHVet** = 0 and **HHAdultAge** in (25,55)

Cohort, Universe, and ProjectID

For all LOTH averages, the value of **Cohort** is 1 and the value of **Universe** is -1.

ProjectID is NULL.

8.5. Get Average Days to Return/Re-engage by Last Project Type



ReportRow, SystemPath and Source Columns for Value

For each **ReportRow** listed below, **Value** = the average of [Source Column] from tlsa_Exit where **ReturnTime** > 0, rounded to the nearest whole number, or the result of a built-in AVERAGE or AVG function in a database that returns an integer when the datatype of the parameter is *integer*.

Report Row Category	Source Column and Criteria	ReportRow
Days to return after exit from ES	**ReturnTime** where **ExitFrom** = 2	18
Days to return after exit from TH	**ReturnTime** where **ExitFrom** = 3	19
Days to return after exit from SH	**ReturnTime** where **ExitFrom** = 4	20
Days to return after exit from RRH (placed in PH)	**ReturnTime** where **ExitFrom** = 5	21
Days to return after exit from PSH (placed in PH)	**ReturnTime** where **ExitFrom** = 6	22
Days to return after exit from RRH (not placed)	**ReturnTime** where **ExitFrom** = 7	63
Days to return after exit from PSH (not placed)	**ReturnTime** where **ExitFrom** = 8	64

The value of **SystemPath** should be -1 for these records.

Population and HHType

Generate rows 18-22 for each of the following populations and household types.

The **HHType** column indicates the household types for which the population is relevant.

- Zero (0) represents a count of all records that meet the criteria, regardless of household type.
  - The value for **HHType** in LSACalculated should use the values shown below, based on tlsa_Exit.**HHType**.

When a report row is required in LSACalculated for any given population, values should be produced for all household types listed in the **HHType** column for that population that occur in LSAExit where **ReturnTime** > 0.

ID	Household Population	HHType	tlsa_Exit Criteria
0	All	0,1,2,3,99	-

ID	Household Population	HHType	tlsa_Exit Criteria
1	Youth 18-21	1	**HHAdultAge** = 18
2	Youth 22-24	1	**HHAdultAge** = 24
3	Veteran	0,1,2,99	**HHVet** = 1
4	Non-Veteran 25+	1	**HHVet** = 0 and **HHAdultAge** in (25,55)

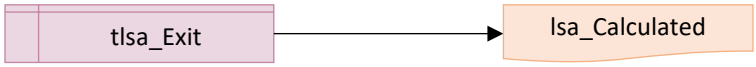
Cohort, Universe, and ProjectID

Rows 18-22 are required for exit cohorts -2, -1, and 0; lsa_Calculated.**Cohort** is populated using those values.

The value of **Universe** is based on LSAExit (tlsa_Exit) **ExitTo**.

Category	ExitTo	Universe
Return 15-730 days after exit to permanent destination	**ExitTo** between 1 and 6	2
Re-engage 15-730 days after exit to temporary destination	**ExitTo** between 7 and 14	3
Re-engage 15-730 days after exit to unknown destination	**ExitTo** in (15,99)	4

8.6. Get Average Days to Return/Re-engage by Population



ReportRow, SystemPath and Source Columns for Value

For **ReportRow** 23, **Value** = the average of **ReturnTime** where **ReturnTime** > 0, rounded to the nearest whole number, or the result of a built-in AVERAGE or AVG function in a database that returns an integer when the datatype of the parameter is *integer*.

The value of **SystemPath** in LSACalculated should be -1 for these records; records are selected for inclusion regardless of the **SystemPath** value in LSAExit.

Population and HHType

Generate row 23 for each of the following populations and household types. (Note: LSAExit does not include reporting on Households with a Chronically Homeless Adult/HoH or Households with Move-In to PSH in Report Period; associated population IDs (e.g., 6 and 43) are deliberately omitted from the list below.)

The **HHType** column indicates the household types for which the population is relevant.

- Zero (0) represents a count of all records that meet the criteria, regardless of household type.
- The value for **HHType** in LSACalculated should use the values shown below, based on tlsa_Exit.**HHType**.

When a report row is required in LSACalculated for any given population, values should be produced for all household types listed in the **HHType** column for that population that occur in LSAExit where **ReturnTime** > 0.

ID	Household Population	HHType	LSAExit Criteria
0	All	0,1,2,3,99	-
1	Youth 18-21	1	**HHAdultAge** = 18
2	Youth 22-24	1	**HHAdultAge** = 24
3	Veteran	0,1,2,99	**HHVet** = 1
4	Non-Veteran 25+	1	**HHVet** = 0 and **HHAdultAge** in (25,55)
5	Disabled Adult/HoH	0,1,2,3,99	**HHDisability** = 1
7	Fleeing Domestic Violence	0,1,2,3,99	**HHFleeingDV** = 1

ID	Household Population	HHType	LSAExit Criteria
8	Senior 55+	1	**HHAdultAge** = 55
9	Parenting Youth 18-24	2	**HHParent** = 1 and **HHAdultAge** in (18,24)
10	Parenting Child	3	**HHParent** = 1
11	AC Household with 3+ Children	2	**AC3Plus** = 1
12	First Time Homeless	0,1,2,3,99	**Stat** = 1
13	Return After Exit to PH	0,1,2,3,99	**Stat** = 2
15	White, non-Hispanic/Latino HoH	0,1,2,3,99	**HoHRace** = 0
16	White, Hispanic/Latino HoH	0,1,2,3,99	**HoHRace** = 1
17	Black or African American HoH	0,1,2,3,99	**HoHRace** = 2
18	Asian HoH	0,1,2,3,99	**HoHRace** = 3
19	American Indian/Alaska Native HoH	0,1,2,3,99	**HoHRace** = 4
20	Native Hawaiian/Other Pacific Islander HoH	0,1,2,3,99	**HoHRace** = 5
21	Multi-Racial HoH	0,1,2,3,99	**HoHRace** = 6
22	Non-Hispanic/Latino HoH	0,1,2,3,99	**HoHEthnicity** = 0
23	Hispanic/Latino HoH	0,1,2,3,99	**HoHEthnicity** =1
39	Youth 18-21 - Disabled Adult/HoH	1	**HHAdultAge** = 18 and **HHDisability** = 1
40	Youth 18-21 - Fleeing Domestic Violence	1	**HHAdultAge** = 18 and **HHFleeingDV** = 1
41	Youth 18-21 - First Time Homeless	1	**HHAdultAge** = 18 and **Stat** = 1
42	Youth 18-21 - Returning after Exit to PH	1	**HHAdultAge** = 18 and **Stat** = 2
44	Youth 18-21 - White, non-Hispanic/Latino HoH	1	**HHAdultAge** = 18 and **HoHRace** = 0
45	Youth 18-21 - White, Hispanic/Latino HoH	1	**HHAdultAge** = 18 and **HoHRace** = 1
46	Youth 18-21 - Black or African American HoH	1	**HHAdultAge** = 18 and **HoHRace** = 2
47	Youth 18-21 - Asian HoH	1	**HHAdultAge** = 18 and **HoHRace** = 3
48	Youth 18-21 - American Indian/Alaska Native HoH	1	**HHAdultAge** = 18 and **HoHRace** = 4
49	Youth 18-21 - Native Hawaiian/Other Pacific Islander HoH	1	**HHAdultAge** = 18 and **HoHRace** = 5
50	Youth 18-21 - Multi-Racial HoH	1	**HHAdultAge** = 18 and **HoHRace** = 6
51	Youth 18-21 - Non-Hispanic/Latino HoH	1	**HHAdultAge** = 18 and **HoHEthnicity** = 0
52	Youth 18-21 - Hispanic/Latino HoH	1	**HHAdultAge** = 18 and **HoHEthnicity** =1
53	Youth 22-24 - Disabled Adult/HoH	1	**HHAdultAge** = 24 and **HHDisability** = 1
54	Youth 22-24 - Fleeing Domestic Violence	1	**HHAdultAge** = 24 and **HHFleeingDV** = 1
55	Youth 22-24 - First Time Homeless	1	**HHAdultAge** = 24 and **Stat** = 1
56	Youth 22-24 - Returning after Exit to PH	1	**HHAdultAge** = 24 and **Stat** = 2
58	Youth 22-24 - White, non-Hispanic/Latino HoH	1	**HHAdultAge** = 24 and **HoHRace** = 0
59	Youth 22-24 - White, Hispanic/Latino HoH	1	**HHAdultAge** = 24 and **HoHRace** = 1
60	Youth 22-24 - Black or African American HoH	1	**HHAdultAge** = 24 and **HoHRace** = 2
61	Youth 22-24 - Asian HoH	1	**HHAdultAge** = 24 and **HoHRace** = 3
62	Youth 22-24 - American Indian/Alaska Native HoH	1	**HHAdultAge** = 24 and **HoHRace** = 4

ID	Household Population	HHType	LSAExit Criteria
63	Youth 22-24 - Native Hawaiian/Other Pacific Islander HoH	1	**HHAdultAge** = 24 and **HoHRace** = 5
64	Youth 22-24 - Multi-Racial HoH	1	**HHAdultAge** = 24 and **HoHRace** = 6
65	Youth 22-24 - Non-Hispanic/Latino HoH	1	**HHAdultAge** = 24 and **HoHEthnicity** = 0
66	Youth 22-24 - Hispanic/Latino HoH	1	**HHAdultAge** = 24 and **HoHEthnicity** =1
67	Non-Veteran 25+ - Disabled Adult/HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HHDisability** = 1
68	Non-Veteran 25+ - Fleeing Domestic Violence	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HHFleeingDV** = 1
69	Non-Veteran 25+ - First Time Homeless	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **Stat** = 1
70	Non-Veteran 25+ - Returning after Exit to PH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **Stat** = 2
72	Non-Veteran 25+ - White, non-Hispanic/Latino HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 0
73	Non-Veteran 25+ - White, Hispanic/Latino HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 1
74	Non-Veteran 25+ - Black or African American HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 2
75	Non-Veteran 25+ - Asian HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 3
76	Non-Veteran 25+ - American Indian/Alaska Native HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 4
77	Non-Veteran 25+ - Native Hawaiian/Other Pacific Islander HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 5
78	Non-Veteran 25+ - Multi-Racial HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 6
79	Non-Veteran 25+ - Non-Hispanic/Latino HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHEthnicity** = 0
80	Non-Veteran 25+ - Hispanic/Latino HoH	1	**HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHEthnicity** =1
81	Veteran - Disabled Adult/HoH	0,1,2,99	**HHVet** = 1 and **HHDisability** = 1
82	Veteran - Fleeing Domestic Violence	0,1,2,99	**HHVet** = 1 and **HHFleeingDV** = 1
83	Veteran - First Time Homeless	0,1,2,99	**HHVet** = 1 and **Stat** = 1
84	Veteran - Returning after Exit to PH	0,1,2,99	**HHVet** = 1 and **Stat** = 2
86	Veteran - White, non-Hispanic/Latino HoH	0,1,2,99	**HHVet** = 1 and **HoHRace** = 0
87	Veteran - White, Hispanic/Latino HoH	0,1,2,99	**HHVet** = 1 and **HoHRace** = 1
88	Veteran - Black or African American HoH	0,1,2,99	**HHVet** = 1 and **HoHRace** = 2
89	Veteran - Asian HoH	0,1,2,99	**HHVet** = 1 and **HoHRace** = 3
90	Veteran - American Indian/Alaska Native HoH	0,1,2,99	**HHVet** = 1 and **HoHRace** = 4
91	Veteran - Native Hawaiian/Other Pacific Islander HoH	0,1,2,99	**HHVet** = 1 and **HoHRace** = 5
92	Veteran - Multi-Racial HoH	0,1,2,99	**HHVet** = 1 and **HoHRace** = 6
93	Veteran - Non-Hispanic/Latino HoH	0,1,2,99	**HHVet** = 1 and **HoHEthnicity** = 0
94	Veteran - Hispanic/Latino HoH	0,1,2,99	**HHVet** = 1 and **HoHEthnicity** =1

ID	Household Population	HHType	LSAExit Criteria
95	Veteran 55+	0,1,2	**HHVet** = 1 and **HHAdultAge** = 55
96	Non-Veteran 55+	1	**HHVet** = 0 and **HHAdultAge** = 55

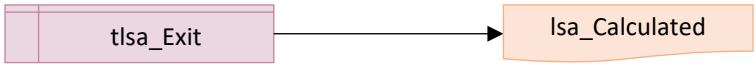
Cohort, Universe, and ProjectID

Row 23 is required for exit cohorts -2, -1, and 0; lsa_Calculated.**Cohort** is populated using those values. The value of **Universe** is based on LSAExit (tlsa_Exit) **ExitTo**.

Category	ExitTo	Universe
Return 15-730 days after exit to permanent destination	**ExitTo** between 1 and 6	2
Re-engage 15-730 days after exit to temporary destination	**ExitTo** between 7 and 14	3
Re-engage 15-730 days after exit to unknown destination	**ExitTo** in (15,99)	4

ProjectID is NULL.

8.7. Get Average Days to Return/Re-engage by System Path



ReportRow, SystemPath, and Source Column for Value

For each **ReportRow** listed below, **Value** = the average of **ReturnTime** where **ReturnTime** > 0 and **SystemPath** meets the listed criteria, rounded to the nearest whole number.

For **ReportRow**s 24-35, averages are grouped by the **SystemPath** value in LSAExit; the **SystemPath** value in LSACalculated should match the SystemPath value in LSAExit.

ReportRow 36 includes all records where the LSAExit value for **SystemPath** <> - 1 – i.e., SystemPath values 1-12. Because the average is for multiple **SystemPath** values, the LSACalculated value for **SystemPath** = -1 for this row.

Report Row Category	tlsa_Exit Values	ReportRow
Days to return after ES/SH only path	**SystemPath** = 1	24
Days to return after TH path	**SystemPath** = 2	25
Days to return after ES/SH/TH path	**SystemPath** = 3	26
Days to return after RRH only path	**SystemPath** = 4	27
Days to return after ES/SH/RRH path	**SystemPath** = 5	28
Days to return after TH/RRH path	**SystemPath** = 6	29
Days to return after ES/SH/TH/RRH path	**SystemPath** = 7	30
Days to return after PSH only path	**SystemPath** = 8	31
Days to return after ES/SH/PSH path	**SystemPath** = 9	32
Days to return after ES/SH/RRH/PSH path	**SystemPath** = 10	33
Days to return after RRH/PSH path	**SystemPath** = 11	34
Days to return after other path	**SystemPath** = 12	35
Days to return after any system path	**SystemPath** = <> -1	36

Population and HHType

Generate rows 24-36 for each of the following populations and household types.

The **HHType** column indicates the household types for which the population is relevant.

- Zero (0) represents a count of all records that meet the criteria, regardless of household type.
- The value for **HHType** in LSACalculated should use the values shown below, based on tlsa_Exit.**HHType**.

When a report row is required in LSACalculated for any given population, values should be produced for all household types listed in the **HHType** column for that population that occur in LSAExit where **ReturnTime** > 0.

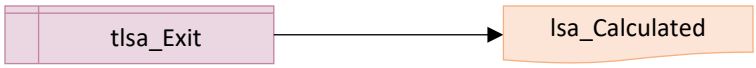
ID	Household Population	HHType	LSAExit Criteria
0	All	0,1,2,3,99	-
1	Youth 18-21	1	**HHAdultAge** = 18
2	Youth 22-24	1	**HHAdultAge** = 24
3	Veteran	0,1,2,99	**HHVet** = 1
4	Non-Veteran 25+	1	**HHVet** = 0 and **HHAdultAge** in (25,55)

Cohort, Universe, and ProjectID

Rows 24-36 are required for exit cohorts -2, -1, and 0; lsa_Calculated.**Cohort** is populated using those values. The value of **Universe** is based on LSAExit (tlsa_Exit) **ExitTo**.

Category	ExitTo	Universe
Return 15-730 days after exit to permanent destination	**ExitTo** between 1 and 6	2
Re-engage 15-730 days after exit to temporary destination	**ExitTo** between 7 and 14	3
Re-engage 15-730 days after exit to unknown destination	**ExitTo** in (15,99)	4

8.8. Get Average Days to Return/Re-engage by Exit Destination



ReportRow, SystemPath, and Source Column for Value

For each **ReportRow** listed below, **Value** = the average of **ReturnTime** where **ReturnTime** > 0 and tlsa_Exit.**ExitTo** meets the listed criteria, rounded to the nearest whole number, or the result of a built-in AVERAGE or AVG function in a database that returns an integer when the datatype of the parameter is *integer*.

The **ExitTo** column in tlsa_Exit determines the **ReportRow** and **Universe**, which distinguishes between permanent, temporary, and unknown destination types.

Report Row Category	tlsa_Exit Identifiers	ReportRow	Universe
Days to return after PSH destination	**ExitTo** = 1	37	2
Days to return after PH - rent with temp subsidy destination	**ExitTo** = 2	38	2
Days to return after PH - rent/own with subsidy destination	**ExitTo** = 3	39	2
Days to return after PH - rent/own no subsidy destination	**ExitTo** = 4	40	2
Days to return after Family - permanent destination	**ExitTo** = 5	41	2
Days to return after Friends - permanent destination	**ExitTo** = 6	42	2
Days to return after Institutions - group/ assisted destination	**ExitTo** = 7	43	3
Days to return after Institutions - medical destination	**ExitTo** = 8	44	3
Days to return after Institutions - incarceration destination	**ExitTo** = 9	45	3
Days to return after Temporary - not homeless destination	**ExitTo** = 10	46	3

Report Row Category	tlsa_Exit Identifiers	ReportRow	Universe
Days to return after Homeless - ES/SH/TH destination	**ExitTo** = 11	47	3
Days to return after Homeless - Street destination	**ExitTo** = 12	48	3
Days to return after Family - temporary destination	**ExitTo** = 13	49	3
Days to return after Friends - temporary destination	**ExitTo** = 14	50	3
Days to return after Deceased destination	**ExitTo** = 15	51	4
Days to return after Unknown destination	**ExitTo** = 99	52	4

The value of LSACalculated.**SystemPath** should be -1 for these records.

Population and HHType

Generate rows 37-52 for each of the following populations and household types.

The **HHType** column indicates the household types for which the population is relevant.

- Zero (0) represents a count of all records that meet the criteria, regardless of household type.
- The value for **HHType** in LSACalculated should use the values shown below, based on tlsa_Exit.**HHType**.

When a report row is required in LSACalculated for any given population, values should be produced for all household types listed in the **HHType** column for that population that occur in LSAExit where **ReturnTime** > 0.

ID	Household Population	HHType	LSAExit Criteria
0	All	0,1,2,3,99	-
1	Youth 18-21	1	**HHAdultAge** = 18
2	Youth 22-24	1	**HHAdultAge** = 24
3	Veteran	0,1,2,99	**HHVet** = 1
4	Non-Veteran 25+	1	**HHVet** = 0 and **HHAdultAge** in (25,55)

Cohort, Universe, and ProjectID

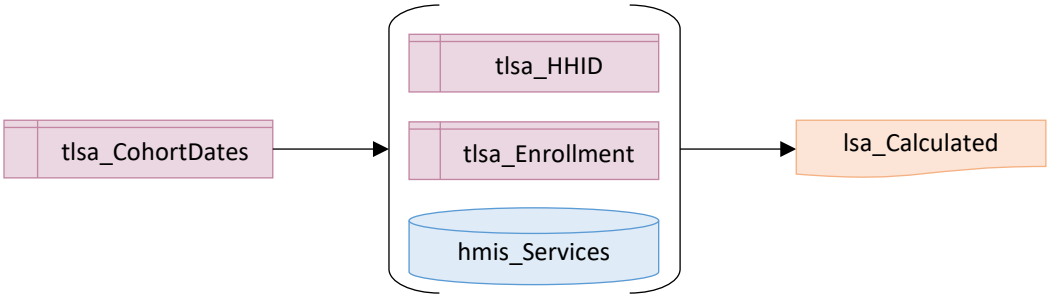
Rows 37-52 are required for exit cohorts -2, -1, and 0; lsa_Calculated.**Cohort** is populated using those values. Rows 37-45 are required for universe 2; Rows 43-50 are required for universe 3; Rows 51-52 are required for universe 4. The value of **Universe** is based on LSAExit (tlsa_Exit) **ExitTo**.

Category	ExitTo	Universe
Return 15-730 days after exit to permanent destination	**ExitTo** between 1 and 6	2
Re-engage 15-730 days after exit to temporary destination	**ExitTo** between 7 and 14	3
Re-engage 15-730 days after exit to unknown destination	**ExitTo** in (15,99)	4

ProjectID is NULL.

The objective of this step is to calculate specified counts for various groups of households based on identifiers established in tlsa_Household.

8.9. Get Counts of People by Project and Household Characteristics



ReportRow, Universe, ProjectID, and Value

ReportRow 53 counts people in households whose members have various characteristics.

The **Universe** for project-level counts is 10; there must be a value in the **ProjectID** column that matches a record in Project.csv.

Value = a count of distinct **PersonalID***s* in tlsa_Enrollment where **Active** = 1, grouped by **ProjectID**, with one or more enrollments that meet the criteria for the **Cohort**, **HHType**, and **Population** for the report row.

Cohort

For each of the date ranges in tlsa_CohortDates, cohort members include people (distinct **PersonalID**s) in tlsa_Enrollment where **Active** = 1 and:

- **ProjectType** in (1,2,3,8,13); and
- If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
- If **ProjectType** in (1,2,8), **EntryDate** <= CohortEnd; and
- If **ProjectType**=1 and **TrackingMethod** = 3, there is a *BedNightDate* between CohortStart and CohortEnd; and
- **ExitDate** is NULL; or
    - **ExitDate** > **CohortStart**; or
    - **ProjectType** = 13 and **ExitDate** = **CohortStart** and **MoveInDate** = **CohortStart**

Category	Cohort	CohortStart	CohortEnd
Active in current report period	1	ReportStart	ReportEnd
Active October 31	10	October 31 of ReportStart year	= CohortStart
Active January 31	11	January 31 of ReportEnd year	= CohortStart
Active April 30	12	April 30 of ReportEnd year	= CohortStart
Active July 31	13	July 31 of ReportEnd year	= CohortStart

Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project.

The **HHType** column indicates the household types for which the population is relevant.

- Zero (0) represents a count of all records that meet the criteria, regardless of household type.
- The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

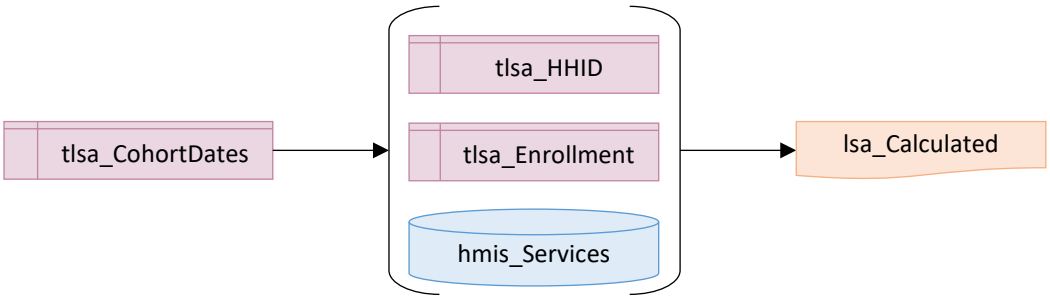
ID	Household Population	HHType	tlsa_HHID Criteria
0	All	0,1,2,3,99	-

ID	Household Population	HHType	tlsa_HHID Criteria
1	Youth 18-21	1	**HHAdultAge** = 18
2	Youth 22-24	1	**HHAdultAge** = 24
3	Veteran	0,1,2,99	**HHVet** = 1
4	Non-Veteran 25+	1	**HHVet** = 0 and **HHAdultAge** in (25,55)
5	Disabled Adult/HoH	0,1,2,3,99	**HHDisability** = 1
6	Chronically Homeless Adult/HoH	0,1,2,3,99	**HHChronic** = 1
7	Fleeing Domestic Violence	0,1,2,3,99	**HHFleeingDV** = 1
8	Senior 55+	1	**HHAdultAge** = 55
9	Parenting Youth 18-24	2	**HHParent** = 1 and **HHAdultAge** in (18,24)
10	Parenting Child	3	**HHParent** = 1

SystemPath

SystemPath is always -1 for counts of people by project.

8.10. Get Counts of People by Project Type and Household Characteristics



ReportRow, Universe, and Value

ReportRow 53 counts people in households whose members have various characteristics.

The value in the Project.csv **ProjectType** column for these counts determines the **Universe:**

Universe	Active Enrollment
11=ES project type	**ProjectType** = 1
12=SH project type	**ProjectType** = 8
13=TH project type	**ProjectType** = 2
14=Housed in RRH	**ProjectType** = 13
15=Housed in PSH	**ProjectType** = 3
16=ES/SH/TH unduplicated	**ProjectType** in (1,8,2)

Value = a count of distinct **PersonalID***s* in tlsa_Enrollment where **Active** = 1, grouped by **ProjectID**, with one or more enrollments that meet the criteria for the **Cohort**, **HHType**, and **Population** for the report row.

Cohort

For each of the date ranges in tlsa_CohortDates, cohort members include people (distinct **PersonalID**s) in tlsa_Enrollment where **Active** = 1 and:

- **ProjectType** in (1,2,3,8,13); and
- If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
- If **ProjectType** in (1,2,8), **EntryDate** <= CohortEnd; and

- If **ProjectType**=1 and **TrackingMethod** = 3, there is a *BedNightDate* between CohortStart and CohortEnd; and
- **ExitDate** is NULL; or
    - **ExitDate** > **CohortStart**; or
    - **ProjectType** = 13 and **ExitDate** = **CohortStart** and **MoveInDate** = **CohortStart**

Category	Cohort	CohortStart	CohortEnd
Active in current report period	1	ReportStart	ReportEnd
Active October 31	10	October 31 of ReportStart year	= CohortStart
Active January 31	11	January 31 of ReportEnd year	= CohortStart
Active April 30	12	April 30 of ReportEnd year	= CohortStart
Active July 31	13	July 31 of ReportEnd year	= CohortStart

Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project type.

The **HHType** column indicates the household types for which the population is relevant.

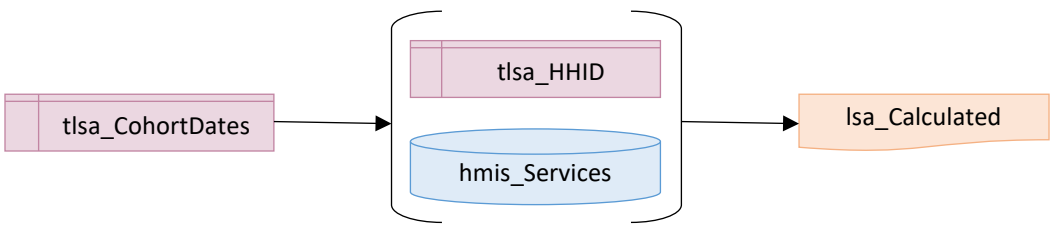
- Zero (0) represents a count of all records that meet the criteria, regardless of household type.
- The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

ID	Household Population	HHType	tlsa_HHID Criteria
0	All	0,1,2,3,99	-
1	Youth 18-21	1	**HHAdultAge** = 18
2	Youth 22-24	1	**HHAdultAge** = 24
3	Veteran	0,1,2,99	**HHVet** = 1
4	Non-Veteran 25+	1	**HHVet** = 0 and **HHAdultAge** in (25,55)
5	Disabled Adult/HoH	0,1,2,3,99	**HHDisability** = 1
6	Chronically Homeless Adult/HoH	0,1,2,3,99	**HHChronic** = 1
7	Fleeing Domestic Violence	0,1,2,3,99	**HHFleeingDV** = 1
8	Senior 55+	1	**HHAdultAge** = 55
9	Parenting Youth 18-24	2	**HHParent** = 1 and **HHAdultAge** in (18,24)
10	Parenting Child	3	**HHParent** = 1

SystemPath and ProjectID

SystemPath is always -1 and **ProjectID** is always NULL for counts of people by project type.

8.11. Get Counts of Households by Project



ReportRow, Universe, ProjectID, and Value

ReportRow 54 counts households whose members have various characteristics.

The **Universe** for project-level counts is 10; there must be a value in the **ProjectID** column that matches a record in Project.csv.

Value = a count of distinct **HoHID/ActiveHHType**s in tlsa_HHID, grouped by **ProjectID**, with one or more enrollments that meet the criteria for the **Cohort**, **HHType**, and **Population** for the report row.

Cohort

For each of the date ranges in tlsa_CohortDates, cohort members include households (distinct **HoHID**/**HHType**s) in tlsa_Household where the HoHID has an active enrollment where:

- **ProjectType** in (1,2,3,8,13); and
- If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
- If **ProjectType** in (1,2,8), **EntryDate** <= CohortEnd; and
- If **ProjectType**=1 and **TrackingMethod** = 3, there is a *BedNightDate* between CohortStart and CohortEnd; and
- **ExitDate** is NULL; or
    - **ExitDate** > **CohortStart**; or
    - **ProjectType** = 13 and **ExitDate** = **CohortStart** and **MoveInDate** = **CohortStart**

Category	Cohort	CohortStart	CohortEnd
Active in current report period	1	ReportStart	ReportEnd
Active October 31	10	October 31 of ReportStart year	= CohortStart
Active January 31	11	January 31 of ReportEnd year	= CohortStart
Active April 30	12	April 30 of ReportEnd year	= CohortStart
Active July 31	13	July 31 of ReportEnd year	= CohortStart

Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project.

The **HHType** column indicates the household types for which the population is relevant.

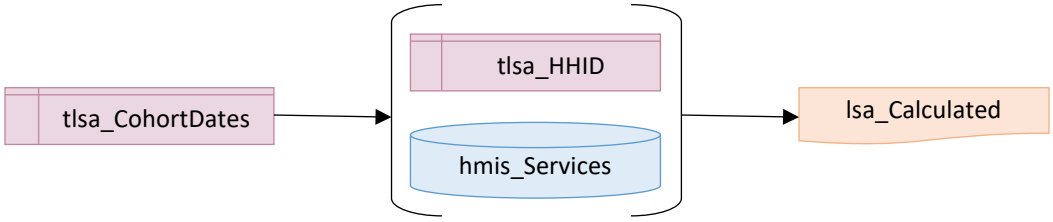
- Zero (0) represents a count of all records that meet the criteria, regardless of household type.
- The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

ID	Household Population	HHType	tlsa_HHID Criteria
0	All	0,1,2,3,99	-
1	Youth 18-21	1	**HHAdultAge** = 18
2	Youth 22-24	1	**HHAdultAge** = 24
3	Veteran	0,1,2,99	**HHVet** = 1
4	Non-Veteran 25+	1	**HHVet** = 0 and **HHAdultAge** in (25,55)
5	Disabled Adult/HoH	0,1,2,3,99	**HHDisability** = 1
6	Chronically Homeless Adult/HoH	0,1,2,3,99	**HHChronic** = 1
7	Fleeing Domestic Violence	0,1,2,3,99	**HHFleeingDV** = 1
8	Senior 55+	1	**HHAdultAge** = 55
9	Parenting Youth 18-24	2	**HHParent** = 1 and **HHAdultAge** in (18,24)
10	Parenting Child	3	**HHParent** = 1

SystemPath

SystemPath is always -1 for counts of households by project.

8.12. Get Counts of Households by Project Type



ReportRow, Universe, and Value

ReportRow 54 counts households whose members have various characteristics.

The value in the Project.csv **ProjectType** column for these counts determines the **Universe:**

Universe	Active Enrollment
11=ES project type	**ProjectType** = 1
12=SH project type	**ProjectType** = 8
13=TH project type	**ProjectType** = 2
14=Housed in RRH	**ProjectType** = 13
15=Housed in PSH	**ProjectType** = 3
16=ES/SH/TH unduplicated	**ProjectType** in (1,8,2)

Value = a count of distinct **HoHID/ActiveHHType**s in tlsa_HHID where **Active** = 1, grouped by project type (**Universe**), with one or more enrollments that meet the criteria for the **Cohort**, **HHType**, and **Population** for the report row.

Counts are unduplicated across projects, but not across project types.

- A household with overlapping enrollments in two emergency shelters on a given date should be counted once in ES and once in the combined ES/SH/TH project group.
- A household with overlapping enrollments in an emergency shelter and a Safe Haven should be counted once in ES, once in SH, and once in the combined ES/SH/TH project group.

Cohort

For each of the date ranges in tlsa_CohortDates, cohort members include households (distinct **HoHID**/**ActiveHHType**s) in tlsa_HHID where **Active** = 1 and:

- **ProjectType** in (1,2,3,8,13); and
- If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
- If **ProjectType** in (1,2,8), **EntryDate** <= CohortEnd; and
- If **ProjectType**=1 and **TrackingMethod** = 3, there is a *BedNightDate* between CohortStart and CohortEnd; and
- **ExitDate** is NULL; or
    - **ExitDate** > **CohortStart**; or
    - **ProjectType** = 13 and **ExitDate** = **CohortStart** and **MoveInDate** = **CohortStart**

Category	Cohort	CohortStart	CohortEnd
Active in current report period	1	ReportStart	ReportEnd

Category	Cohort	CohortStart	CohortEnd
Active October 31	10	October 31 of ReportStart year	= CohortStart
Active January 31	11	January 31 of ReportEnd year	= CohortStart
Active April 30	12	April 30 of ReportEnd year	= CohortStart
Active July 31	13	July 31 of ReportEnd year	= CohortStart

Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project type.

The **HHType** column indicates the household types for which the population is relevant.

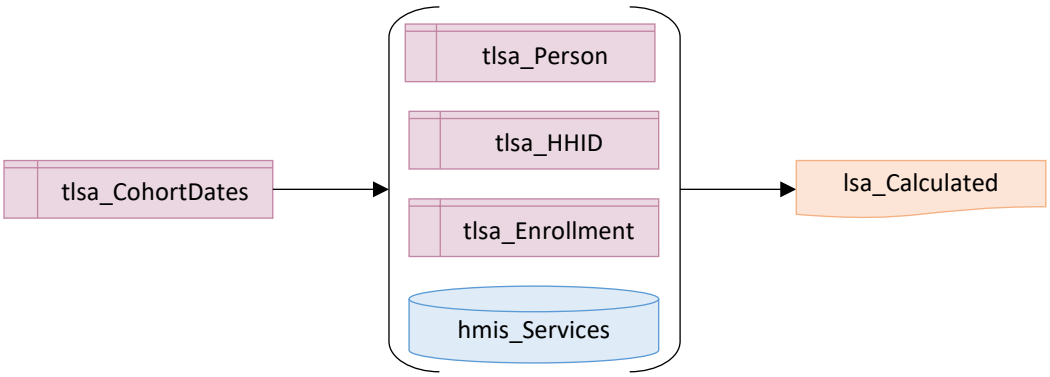
- Zero (0) represents a count of all records that meet the criteria, regardless of household type.
- The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

ID	Household Population	HHType	tlsa_HHID Criteria
0	All	0,1,2,3,99	-
1	Youth 18-21	1	**HHAdultAge** = 18
2	Youth 22-24	1	**HHAdultAge** = 24
3	Veteran	0,1,2,99	**HHVet** = 1
4	Non-Veteran 25+	1	**HHVet** = 0 and **HHAdultAge** in (25,55)
5	Disabled Adult/HoH	0,1,2,3,99	**HHDisability** = 1
6	Chronically Homeless Adult/HoH	0,1,2,3,99	**HHChronic** = 1
7	Fleeing Domestic Violence	0,1,2,3,99	**HHFleeingDV** = 1
8	Senior 55+	1	**HHAdultAge** = 55
9	Parenting Youth 18-24	2	**HHParent** = 1 and **HHAdultAge** in (18,24)
10	Parenting Child	3	**HHParent** = 1

SystemPath and ProjectID

SystemPath is always -1 and **ProjectID** is always NULL for counts of households by project type.

8.13. Get Counts of People by Project and Personal Characteristics



ReportRow, Universe, ProjectID, and Value

ReportRow 55 counts people based on a combination of household characteristics and their own personal characteristics; for example, only veterans are included in the 'Veteran' count.

The **Universe** for project-level counts is 10; there must be a value in the **ProjectID** column that matches a record in Project.csv.

Value = a count of distinct **PersonalID**s in tlsa_Person active in relevant projects (**ProjectID**) during the cohort period (**Cohort**) that meet the criteria for inclusion based on household type and personal characteristics in tlsa_Person.

Cohort

For each of the date ranges in tlsa_CohortDates, cohort members include people (distinct **PersonalID**s) in tlsa_Enrollment where **Active** = 1 and:

- **ProjectType** in (1,2,3,8,13); and
- If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
- If **ProjectType** in (1,2,8), **EntryDate** <= CohortEnd; and
- If **ProjectType**=1 and **TrackingMethod** = 3, there is a *BedNightDate* between CohortStart and CohortEnd; and
- **ExitDate** is NULL; or
    - **ExitDate** > **CohortStart**; or
    - **ProjectType** = 13 and **ExitDate** = **CohortStart** and **MoveInDate** = **CohortStart**

Category	Cohort	CohortStart	CohortEnd
Active in current report period	1	ReportStart	ReportEnd
Active October 31	10	October 31 of ReportStart year	= CohortStart
Active January 31	11	January 31 of ReportEnd year	= CohortStart
Active April 30	12	April 30 of ReportEnd year	= CohortStart
Active July 31	13	July 31 of ReportEnd year	= CohortStart

HouseholdType and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project.

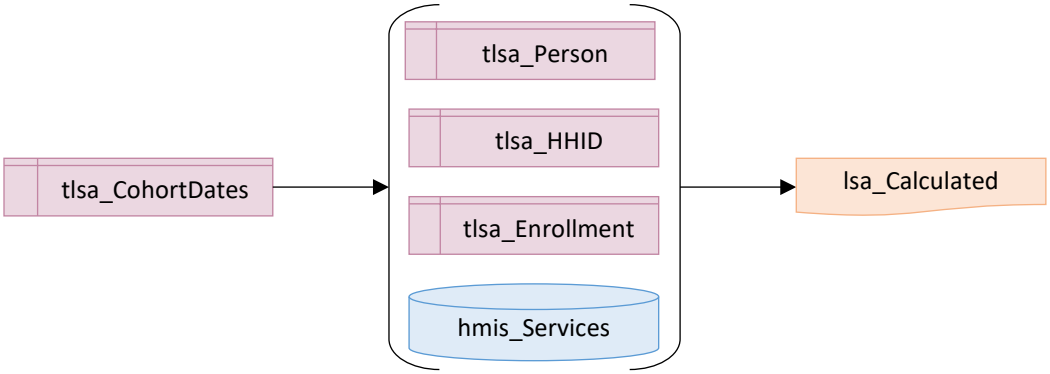
- The **HHType** column indicates the household types for which the population is relevant.
- Zero (0) represents a count of all records that meet the criteria, regardless of household type.
- The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

ID	Population	HHType	Criteria
3	Veteran	0,1,2,99	tlsa_Person.**VetStatus** = 1
6	Chronically Homeless Adult/HoH	0,1,2,3,99	tlsa_Person.**DisabilityStatus** = 1 and: • **CHTime** = 365 and **CHTimeStatus** in (1,2); or • **CHTime** = 400 and **CHTimeStatus** = 2
145	Age 18-21 in AO Youth Household	1	tlsa_Enrollment.Maximum **ActiveAge** = 21 and **HHAdultAge** in (18, 24)
146	Age 22-24 in AO Youth Household	1	tlsa_Enrollment. Maximum **ActiveAge** = 24 and **HHAdultAge** = 24
147	Age 18-21 in AC Parenting Youth Household	2	tlsa_Enrollment. Maximum **ActiveAge** = 21 and **HHAdultAge** in (18, 24) and tlsa_HHID.**HHParent** = 1
148	Age 22-24 in AC Parenting Youth Household	2	tlsa_Enrollment. Maximum **ActiveAge** = 24 and **HHAdultAge** = 24 and tlsa_HHID.**HHParent** = 1

SystemPath

SystemPath is always -1 for counts of people by **ProjectID**.

8.14. Get Counts of People by Project Type and Personal Characteristics



Report Row, Universe, and Value

ReportRow 55 counts people based on their own personal characteristics; for example, only veterans are included in the 'Veteran' count. These counts may be included under any circumstances but are required in LSACalculated only if:

- ReportStart is October 1
- ReportEnd is September 30 of the following year
- LSAReport.**LSAScope** = 1

The value in the Project.csv **ProjectType** column for these counts determines the **Universe:**

Universe	**Active Enrollment**
11=ES project type	**ProjectType** = 1
12=SH project type	**ProjectType** = 8
13=TH project type	**ProjectType** = 2
14=Housed in RRH	**ProjectType** = 13
15=Housed in PSH	**ProjectType** = 3
16 = ES/SH/TH combined	**ProjectType** in (1,8,2)

Value = a count of distinct **PersonalID**s in tlsa_Person active in relevant project types (**Universe**) during the cohort period (**Cohort**) that meet the criteria for based on household type and personal characteristics in tlsa_Person.

Cohort

For each of the date ranges in tlsa_CohortDates, cohort members include people (distinct **PersonalID**s) in tlsa_Enrollment where **Active** = 1 and:

- **ProjectType** in (1,2,3,8,13); and
- If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
- If **ProjectType** in (1,2,8), **EntryDate** <= CohortEnd; and
- If **ProjectType**=1 and **TrackingMethod** = 3, there is a *BedNightDate* between CohortStart and CohortEnd; and
- **ExitDate** is NULL; or
    - **ExitDate** > **CohortStart**; or
    - **ProjectType** = 13 and **ExitDate** = **CohortStart** and **MoveInDate** = **CohortStart**

Category	Cohort	CohortStart	CohortEnd
Active in current report period	1	ReportStart	ReportEnd
Active October 31	10	October 31 of ReportStart year	= CohortStart
Active January 31	11	January 31 of ReportEnd year	= CohortStart
Active April 30	12	April 30 of ReportEnd year	= CohortStart
Active July 31	13	July 31 of ReportEnd year	= CohortStart

Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project type.

The **HHType** column indicates the household types for which the population is relevant.

- Zero (0) represents a count of all records that meet the criteria, regardless of household type.
- The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

Criteria refer to columns in tlsa_Person unless otherwise specified. Data from tlsa_HHID and tlsa_Enrollment is always limited to records where **Active** = 1.

Counts include heads of household and all household members with the exception of counts of parenting children and youth (population IDs 113 – 144). These are limited to heads of household (because it is not possible to identify any other household member as a parent).

ID	Population	HHType	Criteria
3	Veteran	0,1,2,99	**VetStatus** = 1
6	Chronically Homeless Adult/HoH	0,1,2,3,99	**DisabilityStatus** = 1 and: **CHTime** = 365 and **CHTimeStatus** in (1,2); or **CHTime** = 400 and **CHTimeStatus** = 2
15	White, non-Hispanic/Latino	0,1,2,3,99	**Race** = 0
16	White, Hispanic/Latino	0,1,2,3,99	**Race** = 1
17	Black or African American	0,1,2,3,99	**Race** = 2
18	Asian	0,1,2,3,99	**Race** = 3
19	American Indian/Alaska Native	0,1,2,3,99	**Race** = 4
20	Native Hawaiian/Other Pacific Islander	0,1,2,3,99	**Race** = 5
21	Multi-Racial	0,1,2,3,99	**Race** = 6
22	Non-Hispanic/Latino	0,1,2,3,99	**Ethnicity** = 0
23	Hispanic/Latino	0,1,2,3,99	**Ethnicity** =1
24	<1 year	0,2,3,99	Maximum **ActiveAge** = 0
25	1 to 2 years	0,2,3,99	Maximum **ActiveAge** = 2
26	3 to 5 years	0,2,3,99	Maximum **ActiveAge** = 5
27	6 to 17 years	0,2,3,99	Maximum **ActiveAge** = 17
28	18 to 21 years	0,1,2,99	Maximum **ActiveAge** = 21
29	22 to 24 years	0,1,2,99	Maximum **ActiveAge** = 24
30	25 to 34 years	0,1,2,99	Maximum **ActiveAge** = 34
31	35 to 44 years	0,1,2,99	Maximum **ActiveAge** = 44
32	45 to 54 years	0,1,2,99	Maximum **ActiveAge** = 54
33	55 to 64 years	0,1,2,99	Maximum **ActiveAge** = 64
34	65 and older	0,1,2,99	Maximum **ActiveAge** = 65
35	Female	0,1,2,3,99	**Gender** = 1

ID	Population	HHType	Criteria
36	Male	0,1,2,3,99	**Gender** = 2
37	Transgender	0,1,2,3,99	**Gender** = 3
38	Gender non-conforming	0,1,2,3,99	**Gender** = 4
97	Veteran - Female	0,1,2,99	**VetStatus** = 1 and **Gender** = 1
98	Veteran - Male	0,1,2,99	**VetStatus** = 1 and **Gender** = 2
99	Veteran - Transgender	0,1,2,99	**VetStatus** = 1 and **Gender** = 3
100	Veteran - Gender non-conforming	0,1,2,99	**VetStatus** = 1 and **Gender** = 4
101	Veteran - White, non-Hispanic/Latino	0,1,2,99	**VetStatus** = 1 and **Race** = 0
102	Veteran - White, Hispanic/Latino	0,1,2,99	**VetStatus** = 1 and **Race** = 1
103	Veteran - Black or African American	0,1,2,99	**VetStatus** = 1 and **Race** = 2
104	Veteran - Asian	0,1,2,99	**VetStatus** = 1 and **Race** = 3
105	Veteran - American Indian or Alaska Native	0,1,2,99	**VetStatus** = 1 and **Race** = 4
106	Veteran - Native Hawaiian / Other Pacific Islander	0,1,2,99	**VetStatus** = 1 and **Race** = 5
107	Veteran - Multiple Races	0,1,2,99	**VetStatus** = 1 and **Race** = 6
108	Veteran - Non-Hispanic/Latino	0,1,2,99	**VetStatus** = 1 and **Ethnicity** = 0
109	Veteran - Hispanic/Latino	0,1,2,99	**VetStatus** = 1 and **Ethnicity** = 1
110	Veteran - Chronically Homeless	0,1,2,99	**VetStatus** = 1 and **DisabilityStatus** = 1 and ((**CHTime** = 365 and **CHTimeStatus** in (1,2)) or (**CHTime** = 400 and **CHTimeStatus** = 2))
111	Veteran - Disabled	0,1,2,99	**VetStatus** = 1 and **DisabilityStatus** = 1
112	Veteran - Fleeing Domestic Violence	0,1,2,99	**VetStatus** = 1 and **DVStatus** = 1
113	Parenting Youth - Female	2	tlsa_HHID.**HHParent** = 1 and Maximum **ActiveAge** (HoH) in (21,24) and tlsa_Person.**Gender** = 1
114	Parenting Youth - Male	2	tlsa_HHID.**HHParent** = 1 and Maximum **ActiveAge** (HoH) in (21,24) and tlsa_Person.**Gender** = 2
115	Parenting Youth - Transgender	2	tlsa_HHID.**HHParent** = 1 and Maximum **ActiveAge** (HoH) in (21,24) and tlsa_Person.**Gender** = 3
116	Parenting Youth - Gender non-conforming	2	tlsa_HHID.**HHParent** = 1 and Maximum **ActiveAge** (HoH) in (21,24) and tlsa_Person.**Gender** = 4
117	Parenting Youth - White, non-Hispanic/Latino	2	tlsa_HHID.**HHParent** = 1 and Maximum **ActiveAge** (HoH) in (21,24) and tlsa_Person.**Race** = 0
118	Parenting Youth - White, Hispanic/Latino	2	tlsa_HHID.**HHParent** = 1 and Maximum **ActiveAge** (HoH) in (21,24) (21,24) and tlsa_Person.**Race** = 1

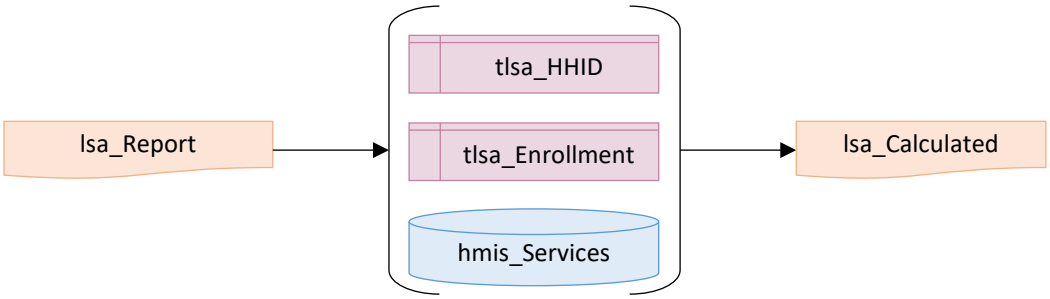
ID	Population	HHType	Criteria
119	Parenting Youth - Black or African American	2	tlsa_HHID.**HHParent** = 1 and Maximum **ActiveAge**(HoH) in (21,24)and tlsa_Person.**Race** = 2
120	Parenting Youth - Asian	2	tlsa_HHID.**HHParent** = 1 and Maximum **ActiveAge** (HoH) in (21,24) and tlsa_Person.**Race** = 3
121	Parenting Youth - American Indian or Alaska Native	2	tlsa_HHID.**HHParent** = 1 and Maximum **ActiveAge** (HoH) in (21,24) and tlsa_Person.**Race** = 4
122	Parenting Youth - Native Hawaiian / Other Pacific Islander	2	tlsa_HHID.**HHParent** = 1 and Maximum **ActiveAge** (HoH) in (21,24) and tlsa_Person.**Race** = 5
123	Parenting Youth - Multiple Races	2	tlsa_HHID.**HHParent** = 1 and Maximum **ActiveAge** (HoH) in (21,24) and tlsa_Person.**Race** = 6
124	Parenting Youth - Non-Hispanic/Latino	2	tlsa_HHID.**HHParent** = 1 and Maximum **ActiveAge** (HoH) in (21,24) and tlsa_Person.**Ethnicity** = 0
125	Parenting Youth - Hispanic/Latino	2	tlsa_HHID.**HHParent** = 1 and Maximum **ActiveAge** (HoH) in (21,24) and tlsa_Person.**Ethnicity** = 1
126	Parenting Youth - Chronically Homeless	2	tlsa_HHID.**HHParent** = 1 and Maximum **ActiveAge** (HoH) in (21,24) and tlsa_Person.**DisabilityStatus** = 1 and ((**CHTime** = 365 and **CHTimeStatus** in (1,2)) or (**CHTime** = 400 and **CHTimeStatus** = 2))
127	Parenting Youth - Disabled	2	tlsa_HHID.**HHParent** = 1 and Maximum **ActiveAge** (HoH) in (21,24) and tlsa_Person.**DisabilityStatus** = 1
128	Parenting Youth - Fleeing Domestic Violence	2	tlsa_HHID.**HHParent** = 1 and Maximum **ActiveAge** (HoH) in (21,24) and **DVStatus** (HoH) = 1
129	Parenting Child - Female	3	tlsa_HHID.**HHParent** = 1 and tlsa_Person.**Gender** (HoH) = 1
130	Parenting Child - Male	3	tlsa_HHID.**HHParent** = 1 and tlsa_Person.**Gender** (HoH) = 2
131	Parenting Child - Transgender	3	tlsa_HHID.**HHParent** = 1 and tlsa_Person.**Gender** (HoH) = 3
132	Parenting Child - Gender non-conforming	3	tlsa_HHID.**HHParent** = 1 and tlsa_Person.**Gender** (HoH) = 4
133	Parenting Child - White, non-Hispanic/Latino	3	tlsa_HHID.**HHParent** = 1 and tlsa_Person.**Race** (HoH) = 0
134	Parenting Child - White, Hispanic/Latino	3	tlsa_HHID.**HHParent** = 1 and tlsa_Person.**Race** (HoH) = 1
135	Parenting Child - Black or African American	3	tlsa_HHID.**HHParent** = 1 and tlsa_Person.**Race** (HoH) = 2

ID	Population	HHType	Criteria
136	Parenting Child - Asian	3	tlsa_HHID.**HHParent** = 1 and tlsa_Person.**Race** (HoH) = 3
137	Parenting Child - American Indian or Alaska Native	3	tlsa_HHID.**HHParent** = 1 and tlsa_Person.**Race** (HoH) = 4
138	Parenting Child - Native Hawaiian / Other Pacific Islander	3	tlsa_HHID.**HHParent** = 1 and tlsa_Person.**Race** (HoH) = 5
139	Parenting Child - Multiple Races	3	tlsa_HHID.**HHParent** = 1 and tlsa_Person.**Race** (HoH) = 6
140	Parenting Child - Non-Hispanic/Latino	3	tlsa_HHID.**HHParent** = 1 and tlsa_Person.**Ethnicity** (HoH) = 0
141	Parenting Child - Hispanic/Latino	3	tlsa_HHID.**HHParent** = 1 and tlsa_Person.**Ethnicity** (HoH) = 1
142	Parenting Child - Chronically Homeless	3	tlsa_HHID.**HHParent** = 1 and tlsa_Person.**DisabilityStatus** (HoH) = 1 and ((**CHTime** = 365 and **CHTimeStatus** in (1,2)) or (**CHTime** = 400 and **CHTimeStatus** = 2))
143	Parenting Child - Disabled	3	tlsa_HHID.**HHParent** = 1 and tlsa_Person.**DisabilityStatus**(HoH) = 1
144	Parenting Child - Fleeing Domestic Violence	3	tlsa_HHID.**HHParent** = 1 and tlsa_Person.**DVStatus** (HoH) = 1
145	Age 18-21 in AO Youth Household	1	tlsa_HHID.**HHAdultAge** in (18,24) and Maximum **ActiveAge** = 21
146	Age 22-24 in AO Youth Household	1	tlsa_HHID.**HHAdultAge** = 24 Maximum **ActiveAge** = 24
147	Age 18-21 in AC Parenting Youth Household	2	tlsa_HHID.**HHParent** = 1 and tlsa_HHID.**HHAdultAge** in (18,24) Maximum **ActiveAge** (any household member) = 21
148	Age 22-24 in AC Parenting Youth Household	2	tlsa_HHID.**HHParent** = 1 and tlsa_HHID.**HHAdultAge** = 24 tlsa_Person.tlsa_Enrollment.**ActiveAge** (any household member) = 24

SystemPath and ProjectID

SystemPath is always -1 and **ProjectID** is always NULL for counts of people by project type.

8.15. Get Counts of Bednights by Project and Household Characteristics



ReportRow, Universe, ProjectID, and Value

ReportRow 56 counts bed nights in the LSA report period for people in households whose members have various characteristics, grouped by **ProjectID**.

These counts may be included under any circumstances but are required in LSACalculated only if:

- ReportStart is October 1
- ReportEnd is September 30 of the following year
- LSAReport.**LSAScope** = 1

The **Universe** for project-level counts is 10; there must be a value in the **ProjectID** column that matches a record in Project.csv.

Value = a count of the combination of [Date] and distinct **PersonalID**s in tlsa_Person that meet the criteria for inclusion in the cohort, universe, household type, and population, grouped by **ProjectID,** where [Date] is between ReportStart and ReportEnd and:

Project	**[Date]**	**[Date]**
ProjectType = 3	**>=MoveInDate**	<= (**ExitDate** – 1 day) or, If **ExitDate** is NULL, ReportEnd
ProjectType = 13	**>=MoveInDate**	<= (**ExitDate** – 1 day) or, = **MoveInDate** and = **ExitDate**; or If **ExitDate** is NULL, ReportEnd
ProjectType in (2,3,8) or **ProjectType** = 1 and **TrackingMethod** = 0	**>=EntryDate**	<= (**ExitDate** – 1 day) or, If **ExitDate** is NULL, ReportEnd
ProjectType = 1 and **TrackingMethod** = 3	*=BedNightDate* (hmis_Services.*DateProvided* where *RecordType* = 200)	

Cohort

The count of bed nights is for the active cohort (**Cohort** = 1).

Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project.

The **HHType** column indicates the household types for which the population is relevant.

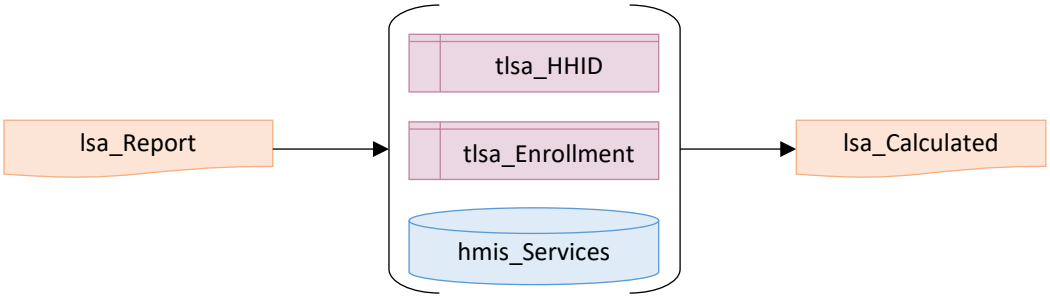
- Zero (0) represents a count of all records that meet the criteria, regardless of household type.
- The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

ID	**Household Population**	**HHType**	**Criteria**
0	All	0,1,2,3,99	-
1	Youth 18-21	1	**HHAdultAge** = 18
2	Youth 22-24	1	**HHAdultAge** = 24

SystemPath

SystemPath is always -1 for counts of bednights.

8.16. Get Counts of Bednights by Project Type and Household Characteristics



ReportRow, Universe, and Value

ReportRow 56 counts bed nights in the LSA report period for people in households whose members have various characteristics, grouped by **Universe**. These counts may be included under any circumstances but are required in LSACalculated only if:

- ReportStart is October 1
- ReportEnd is September 30 of the following year
- LSAReport.**LSAScope** = 1

The value in the Project.csv **ProjectType** column for these counts determines the **Universe:**

Universe	**Active Enrollment**
11=ES project type	**ProjectType** = 1
12=SH project type	**ProjectType** = 8
13=TH project type	**ProjectType** = 2
14=Housed in RRH	**ProjectType** = 13
15=Housed in PSH	**ProjectType** = 3
16=ES/SH/TH unduplicated	**ProjectType** in (1,8,2)

Value = a count of the combination of [Date] and distinct **PersonalID**s in tlsa_Person active in relevant projects that meet the criteria for inclusion based on household type and personal characteristics in tlsa_Person, where [Date] is between ReportStart and ReportEnd and:

Project	**[Date]**	**[Date]**
ProjectType = 3	**>=MoveInDate**	<= (**ExitDate** – 1 day) or, If **ExitDate** is NULL, ReportEnd
ProjectType = 13	**>=MoveInDate**	<= (**ExitDate** – 1 day) or, = **MoveInDate** and = **ExitDate**; or If **ExitDate** is NULL, ReportEnd
ProjectType in (2,3,8) or **ProjectType** = 1 and **TrackingMethod** = 0	**>=EntryDate**	<= (**ExitDate** – 1 day) or, If **ExitDate** is NULL, ReportEnd
ProjectType = 1 and **TrackingMethod** = 3	*=BedNightDate*	

Cohort

The count of bed nights is for the active cohort (**Cohort** = 1).

Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project type.

The **HHType** column indicates the household types for which the population is relevant.

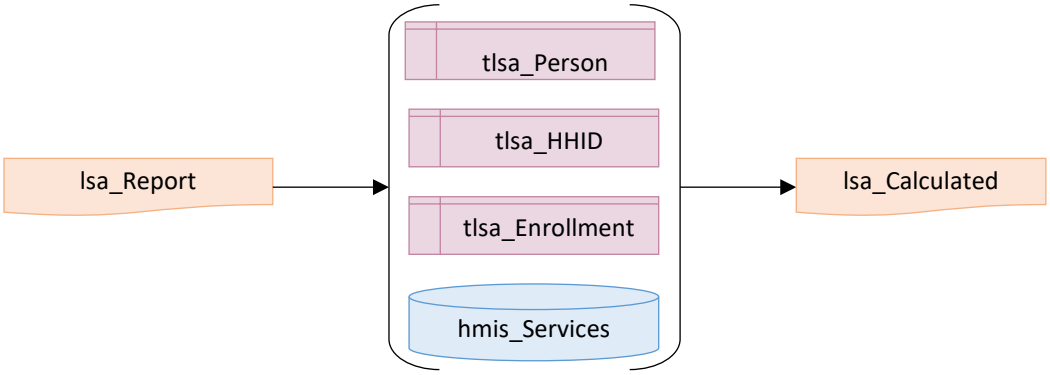
- Zero (0) represents a count of all records that meet the criteria, regardless of household type.
- The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

ID	Household Population	HHType	Criteria
0	All	0,1,2,3,99	-
1	Youth 18-21	1	**HHAdultAge** = 18
2	Youth 22-24	1	**HHAdultAge** = 24

SystemPath and ProjectID

SystemPath is always -1 for counts of bednights; **ProjectID** should be NULL for counts by project type.

8.17. Get Counts of Bednights by Project and Personal Characteristics



ReportRow, Universe, ProjectID and Value

ReportRow 57 counts bed nights for people based on their own personal characteristics; for example, only veterans are included in the 'Veteran' count.

These counts may be included under any circumstances but are required in LSACalculated only if:

- ReportStart is October 1
- ReportEnd is September 30 of the following year
- LSAReport.**LSAScope** = 1

The **Universe** for project-level counts is 10; there must be a value in the **ProjectID** column that matches a record in Project.csv.

Value = a count of the combination of [Date] and distinct **PersonalID***s* in tlsa_Person active in relevant projects (**ProjectID**) that meet the criteria for inclusion based on household type and personal characteristics in tlsa_Person, grouped by **ProjectID,** where [Date] is between ReportStart and ReportEnd and:

Project	[Date]	[Date]
ProjectType = 3	**>=MoveInDate**	<= (**ExitDate** – 1 day) or, If **ExitDate** is NULL, ReportEnd

Project	[Date]	[Date]
ProjectType = 13	**>=MoveInDate**	<= (**ExitDate** – 1 day) or, = **MoveInDate** and = **ExitDate**; or If **ExitDate** is NULL, ReportEnd
ProjectType in (2,3,8) or **ProjectType** = 1 and **TrackingMethod** = 0	**>=EntryDate**	<= (**ExitDate** – 1 day) or, If **ExitDate** is NULL, ReportEnd
ProjectType = 1 and **TrackingMethod** = 3	*=BedNightDate*	

The value in the **ProjectID** column for these counts must match a record in Project.csv.

Cohort

The count of bed nights is for the active cohort (**Cohort** = 1).

Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project. Criteria are based on tlsa_Person values.

The **HHType** column indicates the household types for which the population is relevant.

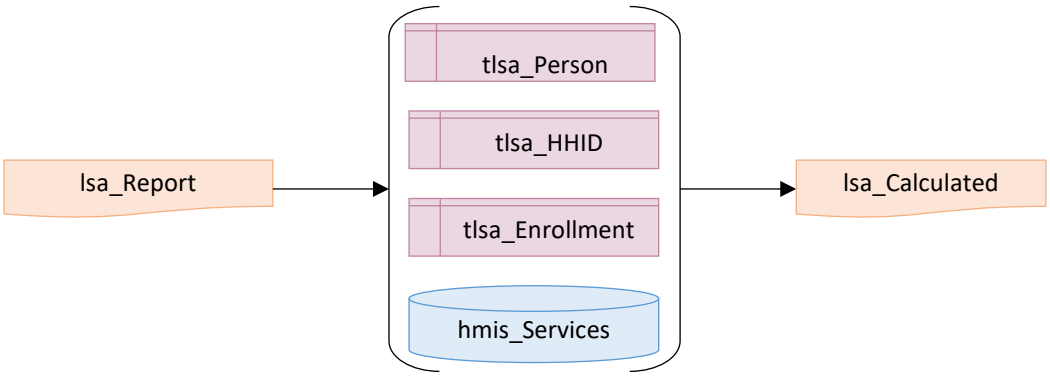
- Zero (0) represents a count of all records that meet the criteria, regardless of household type.
- The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

ID	Household Population	HHType	tlsa_Person Criteria
3	Veteran	0,1,2,99	**VetStatus** = 1
6	Chronically Homeless Adult/HoH	0,1,2,3,99	**DisabilityStatus** = 1 and: **CHTime** = 365 and **CHTimeStatus** in (1,2); or **CHTime** = 400 and **CHTimeStatus** = 2

SystemPath

SystemPath is always -1 for counts of bednights.

8.18. Get Counts of Bednights by Project Type and Personal Characteristics



ReportRow, Universe, and Value

ReportRow 57 counts bed nights for people based on their own personal characteristics; for example, only bednights for veterans are included in the 'Veteran' count.

These counts may be included under any circumstances but are required in LSACalculated only if:

- ReportStart is October 1
- ReportEnd is September 30 of the following year
- LSAReport.**LSAScope** = 1

The value in the Project.csv **ProjectType** column for these counts determines the **Universe:**

Universe	Active Enrollment
11=ES project type	**ProjectType** = 1
12=SH project type	**ProjectType** = 8
13=TH project type	**ProjectType** = 2
14=Housed in RRH	**ProjectType** = 13
15=Housed in PSH	**ProjectType** = 3
16= ES/SH/TH unduplicated	**ProjectType** in (1,8,2)

Value = a count of the combination of [Date] and distinct **PersonalID**s in tlsa_Person active in relevant projects that meet the criteria for inclusion based on household type and personal characteristics in tlsa_Person, where [Date] is between ReportStart and ReportEnd and:

Project	[Date]	[Date]
ProjectType = 3	**>=MoveInDate**	<= (**ExitDate** – 1 day) or, If **ExitDate** is NULL, ReportEnd
ProjectType = 13	**>=MoveInDate**	<= (**ExitDate** – 1 day) or, = **MoveInDate** and = **ExitDate**; or If **ExitDate** is NULL, ReportEnd
ProjectType in (2,3,8) or **ProjectType** = 1 and **TrackingMethod** = 0	**>=EntryDate**	<= (**ExitDate** – 1 day) or, If **ExitDate** is NULL, ReportEnd
ProjectType = 1 and **TrackingMethod** = 3	*=BedNightDate*	

Cohort

The count of bed nights is for the active cohort (**Cohort** = 1).

Household Type and Population

Generate these counts for each of the populations and household types listed below where the count is greater than zero based on data for the given project type. Criteria are based on tlsa_Person.

The **HHType** column indicates the household types for which the population is relevant.

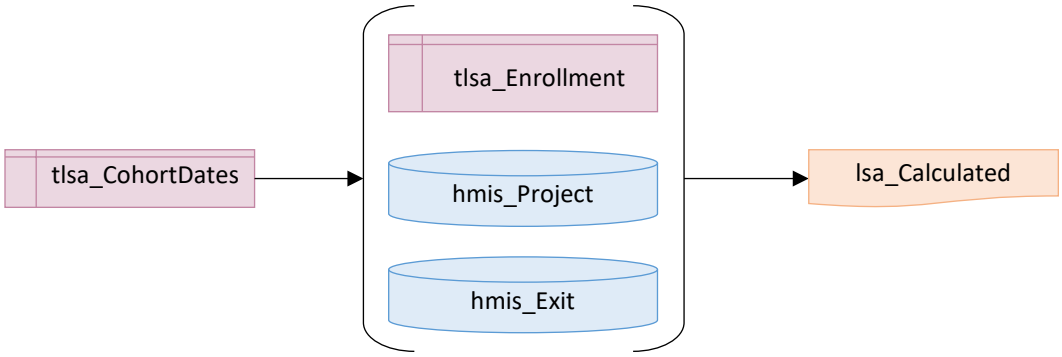
- Zero (0) represents a count of all records that meet the criteria, regardless of household type.
- The value for **HHType** in LSACalculated should use the values shown below, based on **ActiveHHType**.

ID	Household Population	HHType	tlsa_Person Criteria
3	Veteran	0,1,2,99	**VetStatus** = 1
6	Chronically Homeless Adult/HoH	0,1,2,3,99	**DisabilityStatus** = 1 and: **CHTime** = 365 and **CHTimeStatus** in (1,2); or **CHTime** = 400 and **CHTimeStatus** = 2

SystemPath and ProjectID

SystemPath is always -1 for counts of bednights; **ProjectID** should be NULL for counts by project type.

8.19. Data Quality – Get Counts of Enrollments Active After Project Operating End Date by Project



ReportRow

ReportRows 58 and 59 count a subset of enrollments in tlsa_Enrollment

ReportRow 58 counts enrollments without an *ExitDate* in continuum ES/SH/TH/RRH/PSH projects that have an *OperatingEndDate* between CohortStart and CohortEnd.

ReportRow 59 counts enrollments with an *ExitDate* from a continuum ES/SH/TH/RRH/PSH project where *OperatingEndDate* is between CohortStart and CohortEnd and *ExitDate* > *OperatingEndDate*.

Cohort

Cohort = 20 for these counts – they include all enrollments in continuum ES/SH/TH/RRH/PSH projects active in the three years ending on ReportEnd.

The cohort date range is:

CohortStart = [ReportEnd – 3 years] + 1 day

CohortEnd = ReportEnd

Universe, ProjectID, and Value

The **Universe** for project-level counts is 10.

These counts are grouped by ***ProjectID***, and may include ProjectIDs that are not included in Project.csv.

Value = a count of distinct *EnrollmentID*s in hmis_Enrollment where:

- Project.*OperatingEndDate* between CohortStart and CohortEnd
- Project.*ProjectType* in (1,2,3,8,13)
- Project.*ContinuumProject* = 1
    - Exit.*ExitDate* is NULL (**ReportRow** 58); or
    - Exit.ExitDate > Project. *OperatingEndDate* (**ReportRow** 59)
- There is an EnrollmentCoC record for the *HouseholdID* where *InformationDate* <= ReportEnd and *CoCCode* = ReportCoC

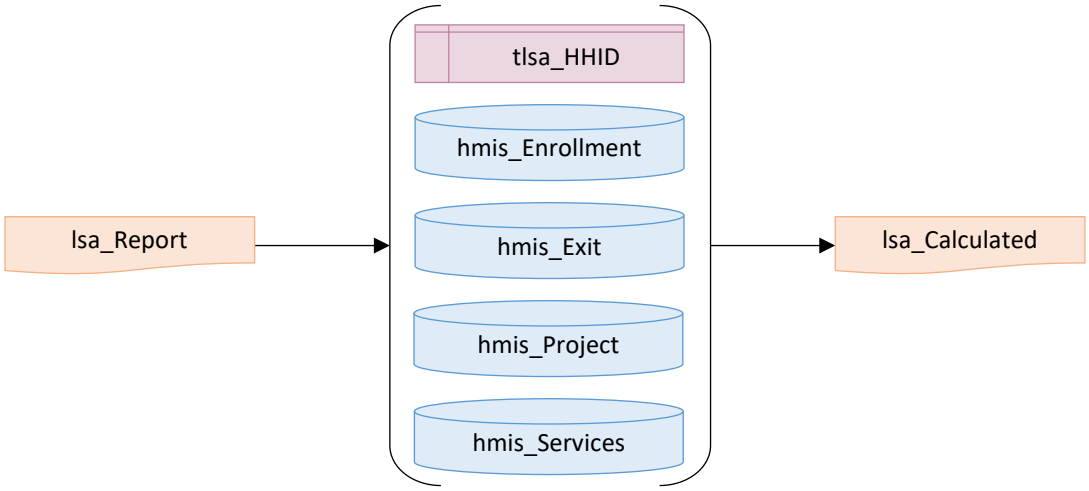
Records are only included when the count is greater than zero.

Household Type, Population, and SystemPath

HHType and **Population** for these counts is always 0.

SystemPath is always -1.

8.20. Data Quality – Get Counts of Night-by-Night Enrollments with Exit Date Discrepancies by Project



ReportRow, Universe, and ProjectID

ReportRow 60 counts enrollments without an *ExitDate* in continuum night-by-night ES projects that have no record of a bednight in the 90 days ending on ReportEnd.

ReportRow 61 counts enrollments with an *ExitDate* in continuum night-by-night ES projects between CohortStart and CohortEnd and where there is no record of a bed night on [*ExitDate* – 1 day].

The **Universe** for project-level counts is 10.

These counts are grouped by ***ProjectID***, and may include ProjectIDs that are not included in Project.csv.

Cohort

Cohort = 20 for these counts. The cohort for these counts is all clients in continuum night-by-night ES projects enrollments active in the three years ending on ReportEnd.

The cohort date range is:

CohortStart = [ReportEnd – 3 years] + 1 day

CohortEnd = ReportEnd

Value

Value = a count of distinct *EnrollmentID*s in hmis_Enrollment where:

- Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3
- Project.*ContinuumProject* = 1
- There is an EnrollmentCoC record for the *HouseholdID* where *InformationDate* <= ReportEnd and *CoCCode* = ReportCoC
    - Exit.*ExitDate* is NULL and **LastBednight** <= [CohortEnd – 90 days](**ReportRow** 60); or

- Exit.*ExitDate* between CohortStart and CohortEnd and **LastBednight** <> *ExitDate* – 1 day] (**ReportRow** 61)

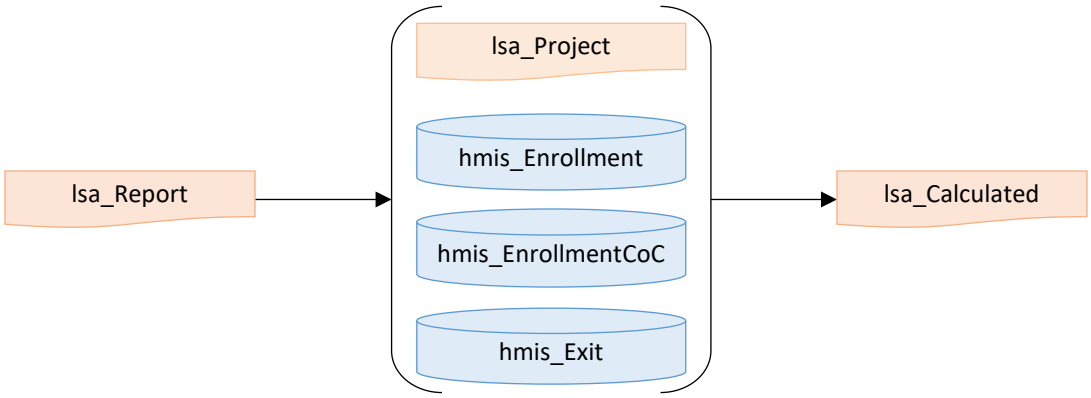
In this context, **LastBednight** is the most recent bednight for the enrollment on or before ReportEnd.

Household Type, Population, and SystemPath

HHType and **Population** for these counts is always 0.

SystemPath is always -1.

8.21. Data Quality – Get Counts of Households with no EnrollmentCoC Record by Project



ReportRow and Value

ReportRow 62 counts households that are active in a continuum ES/SH/TH/RRH/PSH project during the report period and whose enrollment(s) are not associated with any CoC.

Value = a count of distinct *HouseholdID*s in hmis_Enrollment where:

- *ProjectID* = lsa_Project.**ProjectID** and *ProjectType* is not in (9,10); and
- *EntryDate* <= ReportEnd; and
- hmis_Exit.*ExitDate* is NULL or
  - Exit.*ExitDate* >= ReportStart; and
  - Exit.*ExitDate* > Enrollment.*EntryDate*
- There is no hmis_EnrollmentCoC record where:
  - *CoCCode* is not NULL; and
  - *HouseholdID* = hmis_Enrollment.*HouseholdID*; and
  - *InformationDate* <= ReportEnd

Universe and ProjectID

The **Universe** for project-level counts is 10.

These counts are grouped by **ProjectID** and limited to **ProjectID**s included in Project.csv.

Cohort

Cohort = 1 for these counts – they are limited to household enrollments active in the report period.

In this case, the cohort only indicates only that the household was active during the report period. The counts do not include any **HouseholdID** in tlsa_HHID or tlsa_Enrollment and none of the criteria associated with identifying

active households and enrollments in other sections apply – e.g., the count of records where *RelationshipToHoH* = 1 is irrelevant.

Household Type and Value

The counts are grouped by household type, calculated based on the active age (as of the later of their own *EntryDate* or ReportStart) of all household members with the same *HouseholdID* and enrollments active in the report period (see 3.5 Enrollment Ages and 3.6 Household Types).

Records are only included when the count is greater than zero.

Household Type, Population, and SystemPath

HHType and **Population** for these counts is always 0.

SystemPath is always -1.

8.22. LSACalculated

LSACalculated has nine columns. With the exception of **ProjectID,** the datatype for all columns is integer and none may be NULL.

Value for every record must be greater than zero; neither averages nor counts are generated when there are no records that meet criteria specific to the household type, population, cohort, etc.

The data type for the **ProjectID** column is an alphanumeric string of no more than 32 characters.

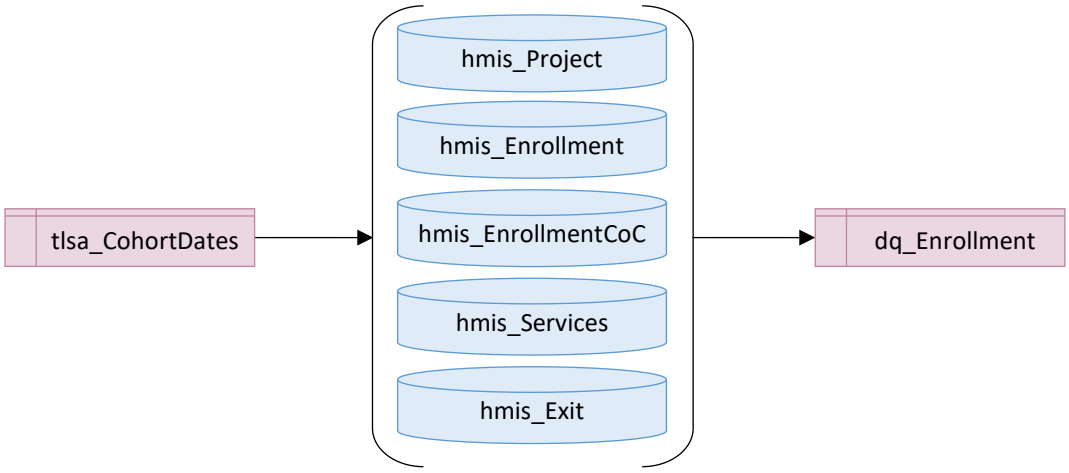
- If **Universe** <> 10, **ProjectID** must be NULL.
- If **Universe** = 10, **ProjectID** may not be NULL.
    - Unless otherwise noted (**ReportRow**s 60-62), **ProjectID**s in LSACalculated must match a **ProjectID** in Project.csv.

#	Column Name
1	**Value**
2	**Cohort**
3	**Universe**
4	**HHType**
5	**Population**
6	**SystemPath**
7	**ProjectID**
8	**ReportRow**
9	**ReportID**

9. HMIS Business Logic: LSAReport Data Quality and ReportDate

Note: Data quality is assessed systemwide at a much broader level than actual LSA reporting. For example, the data quality columns look at race, ethnicity, etc. for children who are not heads of household. This is done to get a sense of systemwide data quality.

9.1. Get HMIS Enrollments Active in the Three-Year Data Quality Report Period



Relevant Data

Source

tlsa_CohortDates
Cohort
CohortStart
CohortEnd
hmis_Project
ProjectID
ProjectType
TrackingMethod
hmis_Enrollment
EnrollmentID
PersonalID
ProjectID
HouseholdID
EntryDate
RelationshipToHoH
MoveInDate
hmis_EnrollmentCoC
EnrollmentID
InformationDate
CoCCode
hmis_Services
EnrollmentID
BedNightDate (*DateProvided* where *RecordType* = 200)

hmis_Exit
EnrollmentID
ExitDate

Target

dq_Enrollment	
EnrollmentID	From hmis_Enrollment
PersonalID	From hmis_Enrollment
HouseholdID	From hmis_Enrollment
RelationshipToHoH	From hmis_Enrollment
ProjectType	From lsa_Project
EntryDate	From hmis_Enrollment
MoveInDate	From hmis_Enrollment for RRH/PSH where *RelationshipToHoH* = 1 and *MoveInDate* <= ReportEnd
ExitDate	From hmis_Exit where *ExitDate* <= ReportEnd
Status1	For enrollments active in the report period, based on DOB in relation to the later of *EntryDate* or ReportStart: 0 (child), 1 (adult), 99 (unknown). (A NULL value indicates that the enrollment was not active in the report period.)
Status3	For all selected enrollments, based on DOB in relation to the later of *EntryDate* or ReportStart-2 years: 0 (child), 1 (adult), 99 (unknown). (All values will be non-NULL because all enrollments in dq_Enrollment were active in the three year DQ period.)
SSNValid	0 (no, does not meet checked criteria), 1 (meets checked criteria).

Logic

Record Selection

Enrollments included in LSAReport data quality reporting are those in hmis_Enrollment where :

- There is a record for the **ProjectID** in lsa_Project; and
- **ProjectType** in (1,2,3,8,13)
- tlsa_CohortDates.**Cohort** = 20
- *EntryDate* <= **CohortEnd**
- *ExitDate* is NULL or *ExitDate* >= **CohortStart**
- hmis_EnrollmentCoC.*CoCCode* = ReportCoC[2] for any EnrollmentCoC record where *InformationDate* <= **CohortEnd**

Status1

For enrollments where *ExitDate* < **CohortStart** for **Cohort** 1, **Status1** is NULL.

For other enrollments, an individual's status as adult, child, or unknown is based on *DOBDataQuality* and *DOB* in relation to the later of *EntryDate* or **CohortStart** (**AgeDate**) where **Cohort** = 1.

Priority	Condition	Status1
1	*DOBDataQuality* in (8,9)	99
2	*DOBDataQuality* not in (1,2)	99

[2] The **NoCoC** column is an exception to this; it counts records in hmis_Enrollment that do not have an associated EnrollmentCoC record with a non-NULL *CoCCode*.

Priority	Condition	Status1
3	*DOB* is missing or set to a system default	99
4	*DOB > EntryDate*	99
5	*RelationshipToHoH* = 1 and *DOB = EntryDate*	99
5	[*DOB +* 105 years] <= **AgeDate**	99
6	[*DOB +* 18 years] <= **AgeDate**	1
7	(other)	0

Status3

An individual's status as adult, child, or unknown is based on *DOBDataQuality* and *DOB* in relation to the later of *EntryDate* or **CohortStart** (**AgeDate**) where **Cohort** = 20.

Priority	Condition	Status3
1	*DOBDataQuality* in (8,9)	99
2	*DOBDataQuality* not in (1,2)	99
3	*DOB* is missing or set to a system default	99
4	*DOB > EntryDate*	99
5	*RelationshipToHoH* = 1 and *DOB = EntryDate*	99
5	[*DOB +* 105 years] <= **AgeDate**	99
6	[*DOB +* 18 years] <= **AgeDate**	1
7	(other)	0

SSNValid

SSNValid is null for any client record where SSNDataQuality in (8,9).

SSNValid = 0 for any *SSN* where:

- Length(*SSN*) <> 9; or
- *SSN* is NULL or set to system default; or
- *SSN* begins with '000', '666', or '9'; or
- *SSN* middle 2 digits are '00' (e.g. 999-00-9999); or
- *SSN* last 4 digits are '0000'; or
- *SSN* contains any character other than 0-9; or
- *SSN* in ('123456789', '111111111', '222222222', '333333333', '444444444', '555555555', '777777777', '888888888')

Otherwise, **SSNValid** = 1. (These checks will not catch every invalid SSN, but those that meet the criteria will be assumed to be valid.)

9.2. Set LSAReport Data Quality Values

For columns that are reported for both the active cohort and the three-year data quality cohort (e.g., **UnduplicatedClient1** and **UnduplicatedClient3**), cohort dates are as set in tlsa_CohortDates:

Cohort	Type	CohortStart	CohortEnd
1	Active	ReportStart	ReportEnd
20	Data quality	([ReportEnd – 3 years] + 1 day)	ReportEnd

NoCoC

LSACalculated **ReportRow** 62 (see section 8.21) includes project-level counts of households served in projects operating in ReportCoC during the report period with no EnrollmentCoC. **NoCoC** is a systemwide count of distinct *HouseholdIDs* in hmis_Enrollment with the same data quality issue for the three-year DQ cohort period.

lsa_Report	**Notes**
ReportCoC	Query parameter
tlsa_CohortDates	**Notes**
Cohort	20
CohortStart	Query parameter
CohortEnd	Query parameter
hmis_Enrollment	**Condition**
RelationshipToHoH	1
EntryDate	<= **CohortEnd** where **Cohort** = 20
hmis_Exit	**Condition**
ExitDate	>= **CohortStart** where **Cohort** = 20 or NULL
hmis_Project	**Condition**
ProjectType	in (1,2,3,8,13)
ContinuumProject	= 1
hmis_ProjectCoC	**Condition**
CoCCode	= ReportCoC
hmis_EnrollmentCoC	**Condition**
	No EnrollmentCoC records exists for the *HouseholdID* where: • *InformationDate* <= **CohortEnd** and • *CoCCode* is not NULL

NotOneHoH1/3

A count of distinct *HouseholdIDs* in hmis_Enrollment excluded from LSA reporting because there was no head of household or more than one head of household.

lsa_Report	**Condition**
ReportCoC	Query parameter
tlsa_CohortDates	**Condition**
Cohort	1 (NotOneHoH1) and 20 (NotOneHoH3)
CohortStart	Query parameter
CohortEnd	Query parameter
hmis_Enrollment	**Condition**
RelationshipToHoH	1
COUNT (distinct *EnrollmentID)*	<>1
EntryDate	<= **CohortEnd**
hmis_Exit	**Condition**
ExitDate	>= **CohortStart** or NULL
hmis_Project	**Condition**
ProjectType	in (1,2,3,8,13)
ContinuumProject	1
hmis_ProjectCoC	**Condition**
CoCCode	ReportCoC

SSNNotProvided

A count of distinct **PersonalID**s in dq_Enrollment where the client either did not know or refused to provide a Social Security number:

dq_Enrollment	Condition
PersonalID	Query parameter
SSNValid	Is NULL

SSNMissingOrInvalid

A count of distinct **PersonalID**s in dq_Enrollment where the SSN is not consistent with Social Security Administration guidelines for a valid SSN and the **PersonalID** was not counted in **SSNNotProvided**.

dq_Enrollment	Condition
PersonalID	Query parameter
SSNValid	0

ClientSSNNotUnique

A count of distinct **PersonalID**s in dq_Enrollment that have the same (apparently valid) hmis_Client.*SSN* as one or more other **PersonalID**s that appear in dq_Enrollment:

dq_Enrollment	Condition
PersonalID	Query parameter
SSNValid	1
hmis_Client	**Condition**
SSN	= hmis_Client.*SSN* where *PersonalID* <> dq_Enrollment.**PersonalID**

DistinctSSNValueNotUnique

A count of distinct (apparently valid) *SSN* values in hmis_Client which are shared by more than one dq_Enrollment.**PersonalID**:

dq_Enrollment	Condition
PersonalID	Query parameter
SSNValid	1
hmis_Client	**Condition**
PersonalID	in dq_Enrollment.**PersonalID**
Count (distinct PersonalID)	>1
SSN	= hmis_Client.*SSN* where *PersonalID* <> dq_Enrollment.**PersonalID**

UnduplicatedClient1/3

For the active and data quality cohorts, a count of distinct **PersonalID**s in dq_Enrollment where:

dq_Enrollment	Condition
Status1/Status3	Is not NULL

UnduplicatedAdult1/3

For the active and data quality cohorts, a count of distinct **PersonalID**s in dq_Enrollment where:

dq_Enrollment	Condition
Status1/Status3	= 1

AdultHoHEntry1/3

For the active and data quality cohorts, a count of distinct **EnrollmentID**s in dq_Enrollment where:

dq_Enrollment	Condition	or Condition 2
Status1/Status3	= 1	Is not NULL
RelationshipToHoH	--	1

ClientEntry1/3

For the active and data quality cohorts, a count of distinct **EnrollmentID**s in dq_Enrollment where:

dq_Enrollment	Condition
Status1/Status3	Is not NULL

ClientExit1/3

For the active and data quality cohorts, a count of distinct **EnrollmentID**s in dq_Enrollment where:

dq_Enrollment	Condition
ExitDate	Between **CohortStart** and **CohortEnd**

Household1/3

For the active and data quality cohorts, a count of distinct **HouseholdID**s in dq_Enrollment where:

dq_Enrollment	Condition
Status1/Status3	Is not NULL

HoHPermToPH1/3

A count of distinct active **EnrollmentID**s where heads of household served in RRH or PSH projects exited to a permanent housing destination:

tlsa_CohortDates	Condition
Cohort	1 (**HoHPermToPH1**) and 20 (**HoHPermToPH3**)
CohortStart	Query parameter
CohortEnd	Query parameter
dq_Enrollment	**Condition**
ExitDate	Between **CohortStart** and **CohortEnd**
RelationshipToHoH	1
ProjectType	in (3,13)
hmis_Exit	**Condition**
Destination	Permanent - in (3,31,19,20,21,26,28,10,11,22,23,33,34)

DOB1/3

For the active and data quality cohorts, a count of distinct **PersonalID**s in dq_Enrollment where:

dq_Enrollment	Condition
Status1/Status3	99

Gender1/3

For the active and data quality cohorts, a count of distinct **PersonalID**s in dq_Enrollment where:

dq_Enrollment	Condition
Status1/Status3	(is not NULL)

hmis_Client	Condition
Gender	Not between 0 and 4

Race1/3

For the active and data quality cohorts, a count of distinct **PersonalID**s in dq_Enrollment where:

dq_Enrollment	Condition
Status1/Status3	(is not NULL)
hmis_Client	**Condition**
Race	The sum of *AmIndAKNative*, *Asian*, *BlackAfAmerican*, *NativeHIOtherPacific*, and *White* = 0
	OR
	RaceNone in (8,9,99)

Ethnicity1/3

For the active and data quality cohorts, a count of distinct **PersonalID**s in dq_Enrollment where:

dq_Enrollment	Condition
Status1/Status3	(is not NULL)
hmis_Client	**Condition**
Ethnicity	not in (0,1)

VetStatus1/3

For the active and data quality cohorts, a count of distinct **PersonalID**s in dq_Enrollment where:

dq_Enrollment	Condition
Status1/Status3	1
hmis_Client	**Condition**
VeteranStatus	Not in (0,1) or is NULL

RelationshipToHoH1/3

For the active and data quality cohorts, a count of distinct **PersonalID**s in dq_Enrollment where:

dq_Enrollment	Condition
Status1/Status3	Is not null
hmis_Enrollment	**Condition**
RelationshipToHoH	Not between 1 and 5

DisablingCond1/3

A count of distinct **EnrollmentID**s in dq_Enrollment where:

dq_Enrollment	Condition
Status1/Status3	Is not null
hmis_Enrollment	**Condition**
DisablingCondition	not in (0,1)

LivingSituation1/3

A count of distinct **EnrollmentID**s in dq_Enrollment where:

dq_Enrollment	Condition 1	or Condition 2
Status1/Status3	1	Not NULL

RelationshipToHoH	--	1

And:

hmis_Enrollment	Condition
LivingSituation	in (8,9,99) or is NULL

LengthOfStay1/3

A count of distinct **EnrollmentID**s in dq_Enrollment where:

dq_Enrollment	Condition 1	or Condition 2
Status1/Status3	1	Not NULL
RelationshipToHoH	--	1

And:

hmis_Enrollment	Condition
LengthOfStay	in (8,9,99) or is NULL

HomelessDate1/3

A count of distinct **EnrollmentID**s in dq_Enrollment where:

dq_Enrollment	Condition 1	or Condition 2
Status1/Status3	1	Not NULL
RelationshipToHoH	--	1

And:

hmis_Enrollment	Condition 1	or Condition 2	or Condition 3	or Condition 4	or Condition 5
DateToESSHStreet	> EntryDate	NULL	NULL	NULL	NULL
LivingSituation	--	in (1,16,18,27)	--	in (4,5,6,7,15,25)	--
LengthOfStay	--	--	in (10,11)	in (2,3)	--
PreviousStreetESSH	--	--	1 or is NULL	1 or is NULL	--
ProjectType	--	--	--	--	In (1,8)

TimesHomeless1/3

A count of distinct **EnrollmentID**s in dq_Enrollment where:

dq_Enrollment	Condition 1	or Condition 2
Status1/Status3	1	Not NULL
RelationshipToHoH	--	1

And:

hmis_Enrollment	Condition 1	or Condition 2	or Condition 3	or Condition 4
TimesHomeless	Not in (1,2,3,4)	Not in (1,2,3,4)	Not in (1,2,3,4)	Not in (1,2,3,4)
LivingSituation	in (1,16,18,27)	--	in (4,5,6,7,15,25)	--
LengthOfStay	--	in (10,11)	in (2,3)	--
PreviousStreetESSH	--	1	1	--
ProjectType	--	--	--	In (1,8)

MonthsHomeless1/3

A count of distinct **EnrollmentID**s in dq_Enrollment where:

dq_Enrollment	Condition 1	or Condition 2
Status1/Status3	1	Not NULL
RelationshipToHoH	--	1

And:

hmis_Enrollment	Condition 1	or Condition 2	or Condition 3	or Condition 4
MonthsHomeless	Not between 101 and 113	Not between 101 and 113	Not between 101 and 113	Not between 101 and 113
LivingSituation	in (1,16,18,27)	--	in (4,5,6,7,15,25)	--
LengthOfStay	--	in (10,11)	in (2,3)	--
PreviousStreetESSH	--	1	1	--
ProjectType	--	--	--	In (1,8)

DV1/3

A count of distinct **EnrollmentID**s in dq_Enrollment where:

dq_Enrollment	Condition 1	or Condition 2
Status1/Status3	1	Not NULL
RelationshipToHoH	--	1

And:

hmis_HealthAndDV	Condition 1	or Condition 2	or Condition 3
DataCollectionStage	1	1	(no record = 1)
DomesticViolenceVictim	Not in (0,1) or is NULL	1	
CurrentlyFleeing	(any)	Not in (0,1) or is NULL	

Destination1/3

For the active and data quality cohorts, a count of distinct **EnrollmentID**s in dq_Enrollment where:

dq_Enrollment	Condition
ExitDate	**Destination1**: >= ReportStart **Destination3**: is not NULL
hmis_Exit	**Condition**
Destination	in (8,9,17,30,99) or is NULL

MoveInDate1/3

A count of distinct **EnrollmentID**s for RRH/PSH projects in dq_Enrollment where **MoveInDate** < **EntryDate** or **MoveInDate** > **ExitDate** or the head of household exited to a permanent housing destination and **MoveInDate** is NULL.

dq_Enrollment	Condition 1	or Condition 2	or Condition 3
ExitDate	Between **CohortStart** and **CohortEnd**	Between **CohortStart** and **CohortEnd**	--
RelationshipToHoH	1	1	1
ProjectType	in (3,13)	in (3,13)	in (3,13)
MoveInDate	is NULL	**> ExitDate**	**< EntryDate**
hmis_Exit	**Condition**	--	--

Destination	Permanent - in (3,31,19,20,21,26,28,10,11, 22,23,33,34)	--	--

9.3. Set LSAReport ReportDate

Set LSAReport.**ReportDate** = the system date/time when all other data required to produce the LSA CSV files has been generated.

9.4. LSAReport

LSAReport has 61 columns; none may be NULL. Data types are shown below.

#	Column Name	Data Type
1	**ReportID**	Integer
2	**ReportDate**	Date/time
3	**ReportStart**	Date
4	**ReportEnd**	Date
5	**ReportCoC**	6 character string (XX-999)
6	**SoftwareVendor**	String; up to 50 characters or 'n/a'
7	**SoftwareName**	String; up to 50 characters or 'n/a'
8	**VendorContact**	String; up to 50 characters or 'n/a'
9	**VendorEmail**	String; up to 50 characters or 'n/a'
10	**LSAScope**	Integer
11	**UnduplicatedClient1**	Integer
12	**UnduplicatedClient3**	Integer
13	**UnduplicatedAdult1**	Integer
14	**UnduplicatedAdult3**	Integer
15	**AdultHoHEntry1**	Integer
16	**AdultHoHEntry3**	Integer
17	**ClientEntry1**	Integer
18	**ClientEntry3**	Integer
19	**ClientExit1**	Integer
20	**ClientExit3**	Integer
21	**Household1**	Integer
22	**Household3**	Integer
23	**HoHPermToPH1**	Integer
24	**HoHPermToPH3**	Integer
25	**NoCoC**	Integer
26	**SSNNotProvided**	Integer
27	**SSNMissingOrInvalid**	Integer
28	**ClientSSNNotUnique**	Integer
29	**DistinctSSNValueNotUnique**	Integer
30	**DOB1**	Integer
31	**DOB3**	Integer
32	**Gender1**	Integer
33	**Gender3**	Integer
34	**Race1**	Integer
35	**Race3**	Integer
36	**Ethnicity1**	Integer

#	Column Name	Data Type
37	**Ethnicity3**	Integer
38	**VetStatus1**	Integer
39	**VetStatus3**	Integer
40	**RelationshipToHoH1**	Integer
41	**RelationshipToHoH3**	Integer
42	**DisablingCond1**	Integer
43	**DisablingCond3**	Integer
44	**LivingSituation1**	Integer
45	**LivingSituation3**	Integer
46	**LengthOfStay1**	Integer
47	**LengthOfStay3**	Integer
48	**HomelessDate1**	Integer
49	**HomelessDate3**	Integer
50	**TimesHomeless1**	Integer
51	**TimesHomeless3**	Integer
52	**MonthsHomeless1**	Integer
53	**MonthsHomeless3**	Integer
54	**DV1**	Integer
55	**DV3**	Integer
56	**Destination1**	Integer
57	**Destination3**	Integer
58	**NotOneHoH1**	Integer
59	**NotOneHoH3**	Integer
60	**MoveInDate1**	Integer
61	**MoveInDate3**	Integer