

# **PeopleSoft Query Training**

**PeopleSoft Version: 9.0** 

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## I. Introduction

#### **Overview**

The Query Designer provides PeopleSoft users with a simple, intuitive way to create and run queries. The results can be viewed online or exported to an Excel spreadsheet or a CSV text file.

You will learn basic functions of the query tool and how to create queries: selecting specific records and fields. You will learn how to modify column headings and how to retrieve the short or long descriptions for the translate value rather than the field name.

Once you know the basics, you will learn how to retrieve information based on criteria requirements such as equal to, greater than, in a list, between and like. You will also learn how to add runtime prompts. Runtime prompts give the user the ability to enter specific values for a designated field. The values are used as criteria for retrieving the information for your report. You will learn to create queries using effective dates because PeopleSoft uses effective dating in order to show data in a historical perspective.

In addition, you will explore how to create complex queries using multiple tables using predefined joins.

## **Objectives**

- Reviewing Query Types
- Finding, Selecting and Running a Predefined Query
- Create Simple Queries
- Specify Criteria for Retrieving Data
- Creating Complex Queries using Multiple Tables
- Sorting and Ordering Query Results



# II. Reviewing the Types of Queries

PeopleSoft Query provides the following different types of queries:

#### **User queries**

Create and run queries to retrieve data from the database directly from Windows-based Query Designer, or the web-based Query Manager/Query Viewer applications.

#### **Process queries**

Write queries that are intended to run periodically by batch processes, most likely using PeopleSoft Application Engine and the Query API (application programming interface).

#### Role queries

Write queries that PeopleSoft Workflow uses to determine to whom to send emails, forms, or worklist entries.



## **III. Basic Query Concepts**

#### **Overview**

You will learn the basic features and concepts of Query, including how to run a predefined query, how to create a query from one record, how to modify your view preferences and how to manipulate data in your query.

## Running a Query: Browser

PS query provides powerful querying capabilities within the PeopleSoft Internet Architecture. Through your browser you can define and modify queries, run queries and schedule queries to be run on a regular basis.

The query viewer is the primary place for the end user to run and view queries. Once the query is found you can choose to run the query immediately in the browser or schedule it to be run at a later time.





# IV. Finding and Selecting and Running a Predefined Query

**Step 1**. Navigate to the Query Manager

<u>Reporting Tools</u> > <u>Query</u> > <u>Query Manager</u>



## V. Creating a Basic Query

## **Terminology**

#### **Record Definitions**

The record definitions are the design specifications that determine the structure of your PeopleSoft application data tables and online processing.

#### **Tables**

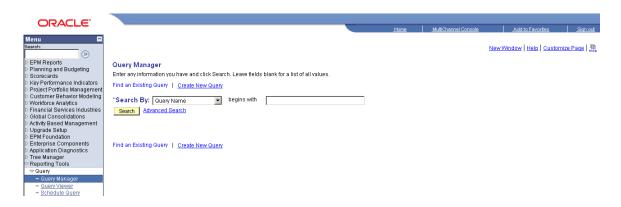
The table is made up of columns and rows. Columns determine how the data will be stored. Rows represent the actual data stored in the database.

## Creating a Basic Query



**Step 1**. Navigate to the Query Manager

Reporting Tools > Query > Query Manager





#### Step 2. Click on Create New Query

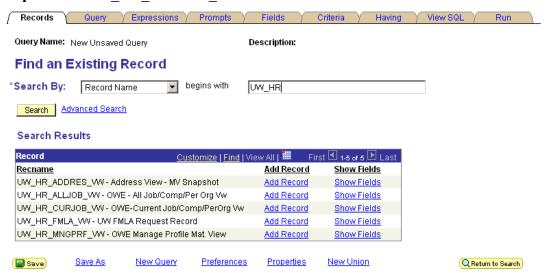
This will open the Find an Existing Record search page where you select the table that you want to use

If you weren't sure of the name of the table, you can leave that field blank. This is not the most efficient way to search because it will bring up the 1<sup>st</sup> 300 tables.



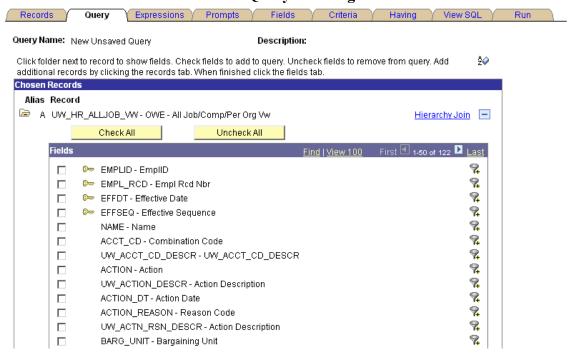
Step 3. Enter UW\_HR in the begins with box and click on the Search icon

**Step 4**. Find UW\_HR\_ALLJOB\_VW table and click on the Add Record icon.



All the fields in the table will be available for selection.





**Step 5.** Choose the following fields:

BUSINESS\_UNIT
DEPTID
EMPLID
NAME
EMPL\_RCD
HIRE\_DT
EXPECTED\_END\_DATE
HR\_STATUS
EMPL\_CLASS
ACTION
ACTION\_REASON
JOBCODE
UW\_JOBCODE\_DESCR
COMPRATE
FTE

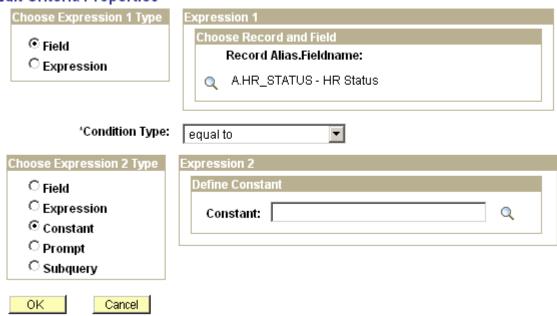
Step 6. Click on the Fields tab





**Step 7.** Click on the Add Criteria icon for HR\_STATUS

## **Edit Criteria Properties**



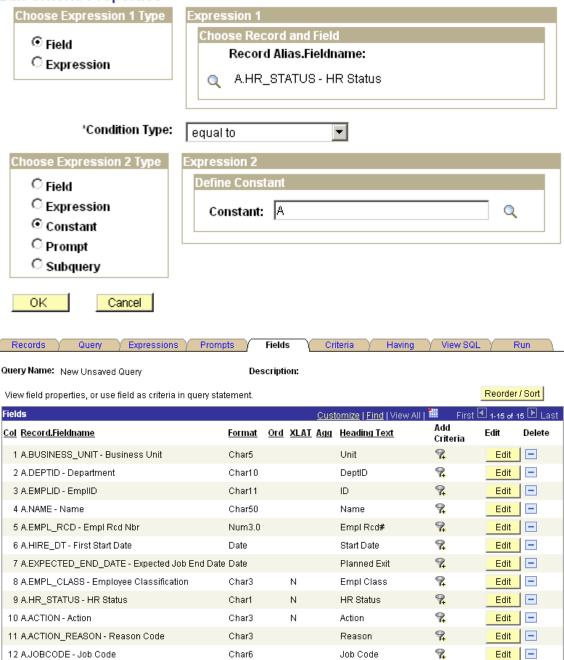
The Edit Criteria Properties page is displayed.

**Step 8.** Enter HR Status in the Constant box and click on the occurrence of icon. Be sure to enter the HR status as it is configured in the system, as PeopleSoft query is case sensitive.

UW Query Training.doc



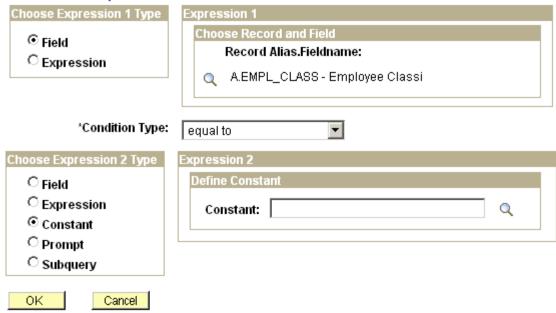
#### **Edit Criteria Properties**



Step 9. Click on the Add Criteria icon for EMPL CLASS

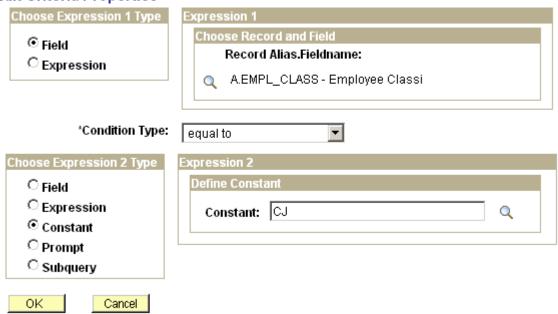


#### **Edit Criteria Properties**



**Step 10.** Enter your employee classification in the Constant box and click on the ok icon

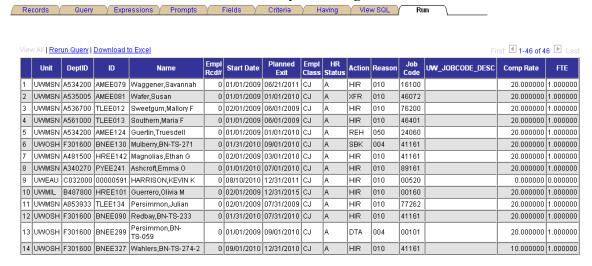
#### **Edit Criteria Properties**



**Step 11.** Click on the Run tab.

The query results will automatically be displayed in a grid format.





The results of your query can now be saved as an Excel spreadsheet.

Step 12. To save the query click on the save icon.

#### Enter a name to save this query:



**Step 13.** Enter a query name and click on the occurrence icon.

Queries can be saved Private or Public queries. If you are saving the query as a public query, you will want to use the naming conventions developed by the organization.

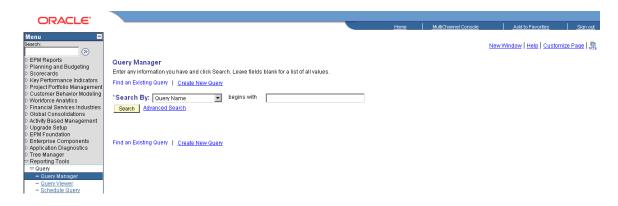


# VI. Creating a Query using Multiple Tables



**Step 1**. Navigate to the Query Manager

Reporting Tools > Query > Query Manager





#### Step 2. Click on Create New Query

This will open the Find an Existing Record search page where you select the table that you want to use



- **Step 3**. Enter UW\_HR in the begins with box and click on the Search icon.
- **Step 4**. Find UW\_HR\_ALLJOB\_VW table and click on the Add Record icon.







**Step 5.** Choose the following fields:

BUSINESS\_UNIT DEPTID EMPLID NAME

**Step 6.** Click on the Records tab. Find UW\_HR\_ADDRES\_VW and click on the Join Record icon.





The Select join type page is displayed.

Using Query Manager, you can create a join between two records (any record join) by selecting your initial base record, defining its output fields and associated criteria, and then returning to the Record page to select the second record.

If you have AutoJoin Wizard option enabled, then PeopleSoft Query automatically attempts to join the new record to the existing record by looking for matching columns on the two records. This function does not always create the correct join.

Select join type and then record to join with UW\_HR\_ADDRES\_VW - Address View - MV Snapshot.



Step 7. Click on A = UW HR ALLJOB WW-OWE-AllJob/Comp/Per Org Vw icon.

The Auto Join automatically brings back the fields it has determined that the join should be made on.

**Step 8.** Click on the Add Criteria icon

#### Auto Join Criteria

Query has detected the join conditions shown below.

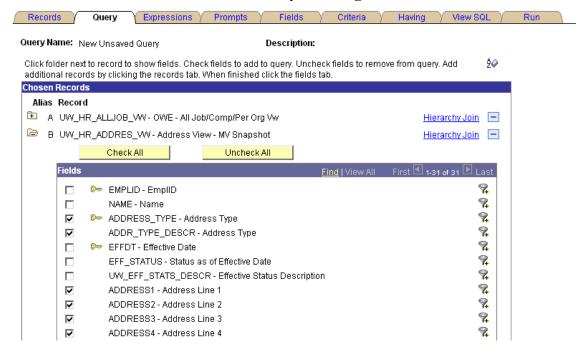
Use the checkboxes to unselect the criteria that you do not want to add to the query and click add criteria when done. The criteria added can always be modified later using the criteria tab.



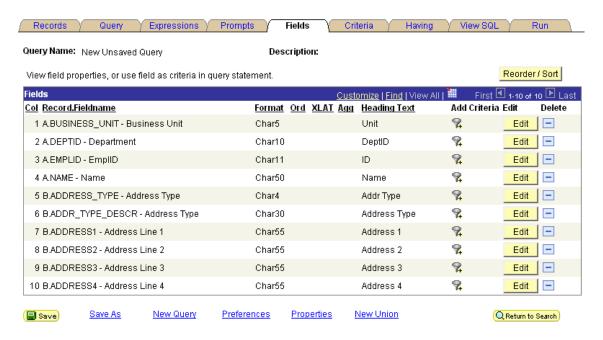
**Step 9.** Choose the following fields from UW HR ADDRES VW:

ADDRESS\_TYPE
ADDR\_TYPE\_DESCR
ADDRESS1
ADDRESS2
ADDRESS3
ADDRESS4





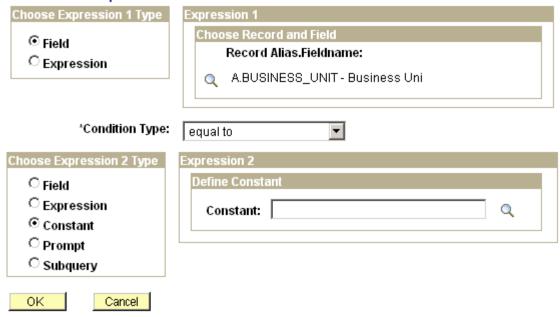
**Step 10.** Click on the Fields tab.



Step 11. Click on the RAdd Criteria icon for BUSINESS\_UNIT

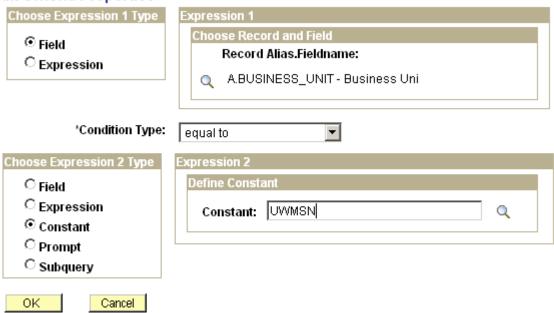


#### Edit Criteria Properties



**Step 12.** Enter your business unit in the Constant box and click on the icon.

#### **Edit Criteria Properties**



**Step 13.** Click on the Run page. The query results will automatically be displayed in a grid format.



Records Y Query Y Expressions Y Prompts Y Fields Y Criteria Y Having Y View SQL Y Run

View All | Rerun Query | Download to Excel

	Unit	DeptID	ID	Name	Addr Type	Address Type	Address 1	Address 2	Address 3	Address 4
1	UWMSN	A481500	00000523	Wade,Luke S	HOME	Home	1601 GOLDEN OAK LN	-	-	-
2	UWMSN	A062040	00000543	JEMS-CLinkler,Aouse	BUSN	Business	1210 W DAYTON ST	-	-	-
3	UWMSN	A062040	00000543	JEMS-CLinkler,Aouse	BUSN	Business	1210 W DAYTON ST	-	-	-
4	UWMSN	A062040	00000546	JEMS-CLinkler,Louse	BUSN	Business	1210 W DAYTON ST	-	-	-
5	UWMSN	A062040	00000546	JEMS-CLinkler,Louse	BUSN	Business	1210 W DAYTON ST	-	-	-
6	UWMSN	A062040	00000547	JEMS-CLinkler,Aouse	BUSN	Business	1210 W DAYTON ST	-	-	-
7	UWMSN	A062040	00000547	JEMS-CLinkler,Aouse	BUSN	Business	1210 W DAYTON ST	-	-	-
8	UWMSN	A534900	00000551	Jems-Park,Jim	HOME	Home	12 Main	-	-	-
9	UWMSN	A534900	00000551	Jems-Park,Jim	BUSN	Business	1656 LINDEN DR	-	-	-
10	UWMSN	A481500	AMEE002	Gubbe,Maya F	номе	Home	3001-3003 HERMINA STREET	-	-	-
11	UWMSN	A535005	AMEE083	Wadford,Sienna	HOME	Home	3600 N. 55TH STREET	-	-	-
12	UWMSN	A532000	AMEE087	Smoothleaf,Sophia	HOME	Home	4610 BONNER LANE	-	-	-
13	UWMSN	A534200	AMEE099	loms,Tristan	HOME	Home	3700 N. 37TH STREET	-	-	-
14	UWMSN	A534200	AMEE134	Guajardo,William	HOME	Home	3706 LEXINGTON AVENUE	-	-	-

**Step 14.** Enter a Query Definition and save the query as a private query.

#### Enter a name to save this query:

