



Data Warehousing Concepts

- Data Warehousing Definition
- Basic Data Warehousing Architecture
- Transaction & Transactional Data
- OLTP / Operational System / Transactional System
- OLAP / Data Warehouse / Decision Supporting System (DSS)
- Need of Data Warehouse
- Issues with OLTP Reporting
- Benefits with OLAP Reporting
- Benefits of Building a Data Warehouse
- Need of ETL Tools
- Data Warehouse Definition By Ralph Kimball&Bill Inmon
- Characteristics of Data Warehouse
 - ✓ Subject Oriented
 - ✓ Integrated
 - ✓ Time Variant
 - ✓ Non Volatile
- OLTP Vs. OLAP
- Data Warehousing Architecture with Staging Area
- Staging Area
- Need of Staging Area
- Data Warehousing Architecture with ODS
- Operational Data Store (ODS)
- Data Mart
- Data Warehouse Design Approaches
 - ✓ Top - Down Data Warehouse Design Approach By Bill Inmon
 - ✓ Bottom - Up Data Warehouse Design Approach By Ralph Kimball
- Types of Data Marts
 - ✓ Dependent Data Marts
 - ✓ Independent Data Marts
- ER Modeling
- Dimensional Modeling
- Dimension Table, Fact Table
- Dimension, Fact
- Star Schema
- Snowflake Schema
- Fact Constellation Schema Or Galaxy Schema
- Benefits of Dimensional Modeling
- Types of Dimensions and Dimension Tables



- ✓ Unchanged Dimension / Static Dimension
- ✓ Slowly Changing Dimension
 - SCD Type1
 - SCD Type2
- ✓ Rapidly Changing Dimension
- ✓ Degenerated Dimension
- ✓ Conformed Dimension
- ✓ Junk Dimension
- ✓ Role Playing Dimension
- ✓ Shrunken Dimension
- ✓ Inferred Dimensions
- Types of Facts
 - ✓ Additive Fact
 - ✓ Semi Additive Fact
 - ✓ Non Additive Fact
- Types of Fact Tables
 - ✓ Fact less Fact Table
 - ✓ Detailed Fact Table
 - ✓ Additive Fact Table or Cumulative Fact Table
- Granularity
- Surrogate Key
- Primary Key Vs. Surrogate Key
- What is ETL
- Code Based ETL
- GUI Based ETL
- Data Acquisition
- Data Extraction
- Data Transformation
- Data Loadings
 - ✓ Initial Load
 - ✓ Incremental Load

Informatica PowerCenter Architecture

- Domain
- Administration Console
- Domain Metadata
- Repository
- PowerCenter Server Components
 - ✓ Repository Service
 - ✓ Integration Service
- PowerCenter Client Tools
 - ✓ Repository Manager
 - ✓ Designer



- ✓ Workflow Manager
- ✓ Workflow Monitor
- Repository Manager
- Designer Tools
 - ✓ Source Analyzer
 - ✓ Target Designer
 - ✓ Transformation Developer
 - ✓ Mapplet Designer
 - ✓ Mapping Designer
- Workflow Manager Tools
 - ✓ Task Developer
 - ✓ Worklet Designer
 - ✓ Workflow Designer
- Workflow Monitor
- Requirements to Implement ETL process
- Execution Process

PowerCenter Transformations

- Transformation, Types of Transformations, Views of Transformations
- Types of ports and Ports Execution Order
- Filter Transformation
- Router Transformation
- Expression Transformation
- Union Transformation
- Sorter Transformation
- Rank Transformation
- Joiner Transformation
- Aggregator Transformation, Incremental Aggregation
- Source Qualifier Transformation
- Sequence Generator Transformation
- Update Strategy Transformation
- Lookup Transformation, Types of Lookup Caches
- Stored Procedure Transformation
- Normalizer Transformation
- Transaction Control Transformation

Advanced Concepts

- Flat files



- Flat file types / Flat file formats
 - ✓ Fixed Width
 - ✓ Delimited
- Fixed Width and Delimited File processing in Informatica
- Direct and Indirect Flat File Loading (Source File Type)
- Mapping Parameters
- Mapping Variables
- Session Parameters
- SCD Type1
- SCD Type2
- MD5 Function
- Reusable Transformation
- Mapplet
- Target Load Plan / Target Load Order
- Constraint Based Loading /Constraint Based Load Ordering
- Worklet
- Types of Batch Processing
- Link Condition
- Version Control
- Task and Types of Tasks
- Scheduling Workflow
- PMCMD Utility
- PMREP Utility
- Session Recovery
- User Defined Functions
- Shortcut, Copy
- Normal and Bulk Loading
- Debugger
- Performance Tuning
- Session Partitioning
- Push Down Optimization
- Unit Testing
- Code Migration through Exporting and Importing
- Code Migration by Copy from Folder
- Data Warehousing Projects Life Cycle
- How Informatica Tool Implemented in Data Warehousing Projects

Add-on



Informatica Course Content



- Interview Questions Discussion
- Resume Preparation
- Mock Interviews By Real Time Experts

Pre-requisites

Knowledge of SQL and basic UNIX

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