

# Informatica Development- DWH

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**Duration: 50 Hours**

## **Prerequisites**

- Basic knowledge of SQL and Unix is advantageous

## **Course Contents**

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### **1. RDBMS Concepts**

- What is RDBMS?
- Evolution of the Database Model
- Entity Relationship Model
- Normalization
- Integrity Rules
- ER Diagrams
- ER Model

### **2. Data Warehousing Concepts**

- What is Datawarehousing
- Need For Datawarehousing
- Data Warehouse Properties
- Data Warehouse and Data Mart
- OLTP and OLAP
- Data Warehouse Lifecycle
- Data Warehouse Testing Lifecycle
- Dimension Modeling
- Dimensions and Facts
- Types of Dimensions (Conformed, Junk, Degenerate, Role Playing, Slowly Changing Dimensions(1,2,3) etc.
- Types of Facts (Additive, Semi Additive, Non Additive)
- Levels and Hierarchy
- Star Schema/Snowflake Schema/Fact Constellation Schema
- ROLAP/MOLAP/HOLAP
- Slowly changing Dimensions (SCD Type 1,2,3)
- Cubes and its Functions

### **3. ERWIN (Data Modeling Tool)**

- Forward Engineering
- Reverse Engineering
- Update Model, Alter database
- Complete Compare

### **4. Basic SQL/PLSQL**

- Oracle Pre Defined Data types
- DDL Commands( Create, Alter (add, modify, rename, drop)Columns, Rename, truncate, drop
- DML- Insert, update, delete
- DQL-SELECT Statements using WHERE clause
- Comparison and Conditional Operators
- Arithmetic and Logical Operators
- Set Operators (UNION, UNION ALL, INTERSECT, MINUS)
- Introduction to Pl/SQL
- Iterations(Loop, While loop, For loop)

- Cursors(Implicit and Explicit)
- Stored Procedures
- Functions
- Triggers
- Exceptions

### **5. INFORMatica**

- Introduction to ETL
- Introduction to Informatica
- Naming Conventions
- Repository Module
  - Understanding Repository
  - Creating Folders and Granting Object Permissions
  - Labels
  - Copying Folders
- Designer Module
  - Working with Sources
  - Working with Flat Files
  - Working with Targets
  - Data Transformation Source and Target
  - Mapping Parameters and Variables
  - Using the Debugger
  - Creating Cubes and Dimensions
  - Using the Mapping Wizards
- Transformation Module
- Working with Transformations
  - Aggregator Transformation
  - Expression Transformation
  - Filter Transformation
  - Router Transformation
  - Normalizer Transformation
  - Rank Transformation
- Transformation Module
  - SQL Transformation
  - Union Transformation
  - Update Strategy Transformation
  - Source Qualifier Transformation
  - Stored Procedure Transformation
  - Lookup Transformation
  - Joiner Transformation
  - Transaction Control Transformation
  - Sorter Transformation
  - Sequence Generator Transformation
- Workflow Module
  - Workflow Manager Overview
  - Workflow Designer
  - Task Developer
  - Worklet Designer
  - Using Workflow Wizard

- Creating a Task
- Configuring Task
- Creating different types of tasks (Session ,Command ,Assignment Decision ,Timer)
- Working with Worklets
- Workflow links
- Connection Objects Overview
- Validating Tasks ,Workflows and Worklets
- Scheduling and Running Workflows
- Using the Debugger
- Workflow Monitor
  - Workflow Monitor Overview
  - Using Workflow Monitor
  - Customize Workflow Monitor
  - Working with Tasks and Workflows
  - Workflow and Task Status
  - Using Gantt Chart and Task Views
  - Session and Workflow Logs
  - Workflow Monitor Details
- Command Reference
- Using Command Line Programs
  - infacmd
  - infasetup
  - pmcmd
  - pmrep
- ❖ **Real Time Datawarehousing Project Scenarios**
- ❖ **Interview Questions**