

Informatica - Datawarehousing

Duration: 50 Hours

Prerequisites

- No specific Knowledge Required.

Course Contents

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 Datawarehouse
- Need For Datawarehouse
- 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
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- 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 Datawarehouse Project Scenarios**
 - **Interview Questions**
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