
Informatica 9.6.1 Syllabus

Business Intelligence (BI) & Data Warehouse (DW):

- ❖ Data Warehouse Architecture
- ❖ DW Definition
- ❖ What is BI? Definitions of BI? Why BI? Who needs BI?
- ❖ DW Features
- ❖ DW vs. OLTP DB
- ❖ Data Mart, Staging DB, Operational Data Stores (ODS)
- ❖ Datamarts

Data Modeling (ER + Dimensional):

- ❖ What is data Model?
- ❖ E-R Modeling
- ❖ Dimensional Modeling
- ❖ Dimension table
- ❖ Fact Table
- ❖ Types Measures or Facts or Metrics
- ❖ What is Schema?
STAR Schema/ SNOWFLAKE SCHEMA/ GALAXY SCHEMA
- ❖ Confirmed Dimension, Junk Dimension, Degenerated Dimension

ETL (Extract, Transform, Load) Process:

- ❖ What is ETL process?
- ❖ Functions of ETL process.
- ❖ Transformations Flow.
- ❖ Why Informatica for ETL process?

Informatica PowerCenter Developer Track:

- ❖ Introduction to Informatica PowerCenter
- ❖ Informatica 9.6.1 Latest features
- ❖ Informatica PowerCenter Architecture
- ❖ Informatica PowerCenter Tools (Repository Manager, Designer, Workflow Manager, Workflow Monitor)

PowerCenter Project Implementation:

- ❖ How to Create Straight Load mapping (One To One Mapping)
- ❖ Concatenating FIRST_NAME and LAST_NAME using the Expression Transformation
- ❖ How to filter the data from Flat File using Filter Transformation and Expression
 - Fixed width Flat Files
 - Delimited Flat Files
- ❖ Populating the Source File Name into the Target Table.
- ❖ How to Divide the data into multiple target tables using the Router Transformation
 - Filter Vs. Router
- ❖ How to generate the Target File Name with Timestamp using Expression Transformation
- ❖ How to write the data to Target file
 - How to generate the Header in Flat file
 - How to generate the Footer in Flat file
- ❖ Joiner , Sorter and Aggregator Transformation using Flat File and Relation table
- ❖ Heterogeneous Joins
- ❖ Incremental Aggregation
- ❖ Usage of Lookup Transformation
 - Different Types caches
 - Static Vs Dynamic Vs Persistent
 - Usage of Unconnected Lookup Transformation
 - Difference between Connected and Unconnected Lookup
- ❖ Update Strategy Transformation
 - Insert, Update , Delete and Reject at mapping Level
 - Update Else Insert at Session Level
- ❖ Converting Columns into Rows by using Normalizer Transformation
 - Processing Multiple Flat Files into Target using Indirect Method
 - Direct Vs. Indirect Method
 - Creating the List File
- ❖ Converting Rows into Columns using Expression and Aggregator Transformation
- ❖ Finding TOP and BOTTOM ranked products by revenue using UNION and RANK Transformation
- ❖ Generating Sequence Numbers without using sequence generator Transformation
- ❖ Reusable Transformations using Transformation Developer
- ❖ Populating the Source First Record into First Target, Second Record into Second Target and Third into Third target Using Sequence Generator Transformation and With Expression (MOD Function) and Router Transformation
- ❖ Understanding Slowly Changing Dimensions
- ❖ Implementing Slowly Changing Dimension –Type 1
- ❖ Implementing Slowly Changing Dimension –Type 2
- ❖ Implementing Slowly Changing Dimension –Type 1 Using Dynamic Lookup Cache
- ❖ Incremental load using Parameter File---FACT Load
- ❖ Historical Load

- ❖ Defining mapping Parameters
- ❖ Different ways of Creating the Parameter File
- ❖ Incremental load Using Mapping variables—FACT Load
- ❖ Splitting the target file dynamically based on the Content using Transaction Control Transformation
 - Source and Target Based Commit Interval
 - User Defined Commit Interval
- ❖ Invoking the Stored Procedure Transformation from Informatica Power Center
 - Connected Vs Unconnected Stored Procedure
 - Drop indexes using Stored Procedure
 - Create Indexes using Stored Procedure
- ❖ Reading the data from XML File Using XML Source Qualifier Transformation
- ❖ Populating Unique Records into one Target and Duplicates into another Target
- ❖ Eliminating Duplicate Records from Flat File
- ❖ Updating the Target Table which does not have Primary Key
- ❖ Sessions
- ❖ Sequential/ Parallel Workflow
- ❖ Event Wait and Event Raise task
- ❖ Email task
 - Session failure
 - Session Success
 - Workflow Failure
 - Workflow Success
 - Attaching file to email
 - Notifying support team with Success Rows, Rejected Rows, Failed Rows
- ❖ Assignment task, Decision task, Control Task, Timer Task
- ❖ Defining Workflow/Worklet Variables
- ❖ Worklets
- ❖ Command task
- ❖ Scheduling Workflows
 - Informatica Scheduler
 - Third party Scheduling Tools
 - PMCMD
 - PMREP
 - INFACMD

Informatica PowerCenter Admin Track:

- ❖ Informatica Domain Architecture
 - PowerCenter – Domain
 - PowerCenter - Administration Console
 - PowerCenter - Repository Service
 - PowerCenter - Integration Service

- ❖ Types of Nodes, Common Issues and Troubleshooting
- ❖ Installation and Configuration
 - Pre Installation Steps & System Pre-Requisites
 - Download Software
 - Database Installation for Metadata Repository
 - PowerCenter Server Installation
 - Power Center Client Installation
 - Up gradation to 9.6.1
- ❖ Administration Console
 - List of Services
 - Domain Properties
 - Node Properties
 - Setting up Repository Service
 - Setting up Integration Service
 - Start and Stopping the services
 - Starting and Stopping of Services - IDQ
- ❖ Informatica Security
- ❖ IDQ Services
 - IDQ MRS (Model Repository Service) Creation
 - IDQ DIS (Data Integration Service) Creation and Properties
 - IDQ Analyst Service
 - IDQ Content Management Service
- ❖ Web Services
- ❖ High Availability
 - Features & Configuration
 - Various Situations and Benefits
- ❖ Grids
- ❖ Operating System Profiles
- ❖ License Management
- ❖ Versioning
- ❖ Repository Metadata
- ❖ Version Upgrades

Informatica PowerCenter Repository Manager: Code Migration:

- Copying objects
- Import/Export of objects
- Deployment Groups

❖ Performance Tuning

ETL TESTING TRACK

Introduction

- What is use of ETL TESTING?
- Responsibilities of a ETL Tester

Testing methodologies

- Smoke Testing
- Functional Testing
- System Testing
- ETL Testing Work Flow Process
- How to Prepare the ETL Test Plan
- How to design the Test cases in ETL Testing.
- How to reporting the Bugs in ETL Testing?
- ETL Testing Responsibilities;
- How to detect the bugs through database queries
- ETL Performing Testing & Performing Tuning