

# Informatica

# Power Center 10.x

## Course Overview



Informatica™

# Contents

- Module 1: Overview of Informatica Power Center
- Module 2: Working with Designer and Transformations
- Module 3: Working with Workflow Manager and Monitor
- Module 4: Reusability
- Module 5: Parameters and Variables
- Module 6: Working with Repository Manager & Admin Console
- Module 7: Real Time Implementation Scenarios
- Module 8: Real Time Project to load Data Mart

# Prerequisites

- Knowledge of databases and basic SQL Queries
- Windows/Mac/Linux OS with minimum 4 GB RAM/20 GB disk space
- Oracle/Microsoft SQL Server installed in system
- Informatica Power Center 9.x/10.x installed in system

# Learning Objectives

- Utilize Designer to build mappings that extract and load data with the necessary transformations.
- Deploy transformations to cleanse, format, join, aggregate and route data to appropriate targets.
- Use Workflow Manager to build and run workflows and to control data transformation processes.
- Understand the Power Center Architecture.
- Determine the structure and use of Parameter Files.
- Describe the effect of mapping design on performance and apply these design principles to a mapping.
- Normalize and De-normalize data using Power Center.
- Use the Lookup transformation in Dynamic mode.

# Module 1

## Overview of Informatica Power Center

- Basics of Data Warehousing
- Data Warehouse Architecture
- Types of Data Warehouse
- Data Integration using ETL
- Facts and Dimensions
- Slowly Changing Dimensions – Type1, Type2 and Type3
- Star and Snowflake Schemas
- Overview of Informatica Power Center
- Informatica Power Center 10.x Architecture
- Concept of Domain, Nodes and Grids
- Repository and Integration Services
- Overview of Informatica Repository and Metadata
- Overview of Power Center Client Components

# Module 2

## Working with Designer and Transformations

- Overview of Designer interface
- Introduction to Mappings and Transformations
- Design first mapping using Designer
- Run first workflow using Workflow Manager
- Working with Relational Database and Flat File sources and targets
- Active and Passive Transformations
- Data Flow rules in a mapping
- Connected v/s Unconnected Transformations
- Working with Source Qualifier Transformation
- Overview of Expression Transformation
- Filter Transformation
- Router Transformation
- Sorter Transformation
- Use of Sorter Cache



- Aggregator Transformation
- Aggregator caches
- Use of Joiner transformation
- Understanding Joiner Caches
- Tips and Guidelines to use Aggregator and Joiner
- Sequence Generator Transformation and properties
- Lookup Transformation overview
- Understanding lookup caches
- Joiner v/s Lookup
- Update Strategy Transformation
- Rank Transformation Overview
- Understanding Rank Caches
- Union Transformation
- Converting columns to rows using Normalizer Transformation

# Module 3

## Working with Workflow

## Manager & Workflow Monitor

- Overview of Workflow Manager interface
- Understanding Tasks and Sessions
- Link conditions
- Command Task and Email Task
- Event Raise and Event Wait Task
- Control Task, Decision Task and Timer Task
- Assignment Task
- Scheduling Workflows
- Using File Lists
- Overview of Workflow Monitor interface
- Task view and Gantt Chart view
- Stop, Abort and Restart tasks and workflows
- Monitoring session run statistics
- Analyzing session logs and workflow logs

# Module 4

## Reusability

- Using Reusable Transformations
- Mapplet overview
- Data sources defined outside and inside mapplet
- Mapplet Input and Output Transformation
- Active and Passive mapplets
- User Defined Functions
- Using Public and Private UDF's
- Using Reusable Tasks
- Worklet overview
- Reusable and non-reusable worklet

# Module 5

## Parameters and Variables

- Declaring Mapping Parameters and Variables
- Initialization priority of parameters and variables
- User defined session parameters
- Maintaining parameter files
- System variables
- Functions to set Mapping Variables
- Built in and User defined Workflow Variables
- Mapplet parameters and variables
- Worklet parameters and variables

# Module 6

## Working with Repository Manager & Admin Console



- Repository Manager overview
- Working with Folders and Labels
- Import and export XML's
- Comparing objects
- Viewing dependencies of objects
- Creating static and dynamic deployment groups
- Migrating objects
- Overview of Administration Console
- Domain, Node and Service properties
- Creating Users, Groups and Roles
- Assigning Roles and Permissions

Module 7

Real Time Implementation

Scenarios

- Implementing Type 1, Type 2 and Type 3 SCD
- Implementing Changed Data Capture (CDC)
- Implementing Incremental Aggregation
- Practice sets on Interview based scenario questions

Module 8

Load Sales Data Mart

- Prepare/Analyze the Dimensional Model
- Create the Source and Target definitions
- Load Staging, Dimension and Fact Tables
- Velocity Standards overview for the project related objects
- Project Requirement walkthrough
- Preparing mappings, session and workflows to load data mart.

Thank You