

# Informatica Power Center Development with DWH Concepts

<b>1</b>	<b>Database Design</b>
	Normalization
	Denormalization
	Examples
<b>2</b>	<b>Data Warehouse Introduction</b>
	Define Data-warehouse
	Data Warehouse Architecture
	The Top-Down Approach
	The Bottom-up Approach
	Differences between OLAP & OLTP
	<b>OLAP</b>
	OLAP Architecture
	OLAP Servers
	- R OLAP Server
	- M OLAP Server
	- H OLAP Server
	<b>OLAP Operations</b>
	- Roll up Operation
	- Drill Down Operation
	- Slice Operation
	- Dice Operation
	- Pivot Operation
	<b>Types of Data Warehouse</b>
	- Enterprise Data Warehouse
	- Data Marts
	- Dependent Data Mart
	- In-dependent Data Mart
	- ODS (Operational Data Store)
<b>3</b>	<b>Data Models</b>
	Conceptual Data Model
	Logical Data Model
	Physical Data Model
	Comparisons of CDM, LDM & PDM
	Pictorial Representation of these models

4	Dimensional Modelling
	Dimension & Facts
	Attributes, Hierarchy
	Star Schema Architecture
	Snow-Flake Schema
	Pictorial Representation of Star & Snow Flake schemas
	Types of Dimensions
	Types of Facts
	Types of Fact Tables
	Slowly Changing Dimensions [SCD] & their types

5	Data Acquisition
	Define Data Acquisition [ETL]
	Steps in ETL
	ETL Architecture
	ETL tools
	Sources v/s Targets
	Define a Transformation

## Informatica Power Center Development

<b>6</b>	<b>Informatica Basics</b>
	What is Informatica
	Installation
	Architecture
	Components of Informatica & their uses
	Creating Sources & Targets
	Creating Transformations
	Creating Sessions
	Creating Workflows
	Using Work Flow Manager
<b>7</b>	<b>Transformations</b>
	Active v/s Passive Transformation
	Connected v/s Un-Connected Transformation
	Introduction to following types of Transformation
	- Source Qualifier Transformation
	- Aggregate Transformation
	- Sorter Transformation
	- Filter Transformation
	- Expression Transformation
	- Union Transformation
	- Router Transformation
	- Rank Transformation
	- Sequence Generator Transformation
	- Lookup connected Transformation
	- Lookup Un-Connected Transformation
	- Stored Procedure connected Transformation
	- Stored Procedure Un-Connected Transformation
	- SQL Transformation
	- Normalizer Transformation
	- Update Strategy Transformation
	- Reusable Transformation
	- Mapplet (Group of Transformation)
	- Mapplet Input Transformation
	- Mapplet Output Transformation
	- XML Source Qualifier Transformation
	- XML Source
	- XML Target

	- XML Generator Transformation
	- XML Parser
	- SCD Type I
	- SCD Type II (Effective Date)
	- SCD Type III
<b>8</b>	<b>Advance ETL Concepts</b>
	- Worklet Designer
	- Task Developer
	- Session Task
	- Session Partitioning
	- Session Properties
	- Email Task (Pre/Post(Success/Failure))
	- Command Task (Pre/Post(Success/Failure))
	- Event Task
	- Target Load Plan
	- Constraint Based Loading
	- Workflow Scheduler
	- Indirect File Loading
	- Exception Handling
	- Parameters/Variables (Mapping/Mapplet/Workflow/Worklet)
<b>9</b>	<b>Project</b>
	Explanation of a sample project for practicing and better understanding of Concepts
	Assignments
	Resume building
	Mock Interviews