

## **INFORMATICA 9**

### **30 Hours**

#### **INTRODUCTION TO DATA WAREHOUSING**

- Data Warehousing Concepts.
- Differences between Transaction data and Warehouse data
- Data Warehouse Architecture
- Source data, Staging data and Target data
- OLAP Types
- MOLAP,ROLAP,HOLAP
- Operational Data Store(ODS)
- Metadata and Data Mining
- Differences between Data Mart And Data Warehouse
- Schemas used In Data Warehouse
- Slowly Changing Dimensions
- Real Time Data Warehouse

#### **DATABASE DESIGN AND DATA MODELLING**

- Entity-Relational Model(E-R model) for Transactional Database
- Defining Entities and Their Relationship
- Distribution Of Attributes Under Entities
- Normalization Of Entities
- Conversion of logical model into physical model
- Modeling Logical E-R model Using Erwin Tool
- Description About Structured Query Language
- Case Studies

#### **DIMENSIONAL MODEL FOR DATA WAREHOUSE**

- Define Dimensions And Measures
- Defining Levels And Hierarchies
- Granularity Of Data
- Description About Snow Flak Schema
- Dimension table And Fact table

- Fact less Fact Table
- Additive Measures, Non-Additive And Semi-Additive
- Normalization and De-normalization
- Many-To-Many Dimension
- Case Studies

## **OLAP DATA WAREHOUSE**

- Introduction of Data Warehousing Process
- Detailed explanation about OLTP system
- Detailed explanation about OLAP system
- Explanation of DWH Life Cycle
- Detailed Explanation of OLAP Life Cycle
- Explanation of OLAP Types
- Detailed Explanation of Dimensional Modeling
- Detailed Explanation STAR and SNOW FLAK SCHEMA

## **DEVELOPER ROLES INCLUDING**

- Responsible for building database and importing databases.
- Models or application for end-users include data mart development
- Metadata and OLAP models
- Building and deployment of reports.
- Administration handling.

## **DATA WAREHOUSING ETL: - INFORMATICA**

- Architecture of Informatica
- Informatica Server and client set-up
- Repository Manager-Repository Creation, deletion, Back-up and Restore
- Repository Manager: Multiple repository and multiple folders
- Repository Manager: Folder creation and deletion and privileges set up
- Repository Manager: User, group and privileges Management.
- Designer: Defining Source from RDBMS, Semi RDBMS, Flat files, XML file, Cobol files
- Designer: Defining Target for staging database and for data warehouse
- Designer: Creating multi dimensional cubes
- Designer: Transformation developer for reusable user defined mapping.
- Designer: Mappings to apply Transformation rules like Router, Filter, Expression and etc
- Designer: Global referencing of objects across Folders
- Designer: Data staging
- Server Manager: Setting up server for repository
- Server Manager: creating sessions and batches.
- Server Manager: Scheduling sessions and batches
- Server Manager: Monitoring sessions and batches for data loading
- Server Manager: Troubleshooting Data loading errors