

Course Brochure

DATA WAREHOUSING

Overview

•A Data Warehouse is a storage area, which holds the complete data specific to the organization so that efficient queries can be built on it for Analysis and Reporting purpose. Data Warehouse is a subject-oriented database where data is associated to a single organizational process, often called entity. A Data Warehouse is integrated with various source databases, which provides enormous strategic implication for Business Intelligence. The Data Warehouse on the other hand does not cater to real time operational requirements of the enterprise. It is a storehouse of current and historical data extracted from either internal or external data source(s).

Pre-requisites

•Knowledge of Oracle is essential.

Applications

COURSE CONTENTS

Introduction to Data warehousing

- ❖ What Is Data warehousing?
- ❖ Who needs Data warehouse?
- ❖ Why Data warehouse is required?
- ❖ Types of Systems
(i)OLTP (ii) DSS
- ❖ Maintenance of Data warehouse
- ❖ Datawarehousing Life cycle
- ❖ Data warehousing Testing Ute Cycle

Data warehousing Architecture

- ❖ Source
- ❖ Integration Layer
- ❖ Staging Area
- ❖ Targets
- ❖ Analysis & Reporting
- ❖ HPQS

Data Modelling

- ❖ Introduction
- ❖ Different Phases of Modelling

Multi Dimensional Modelling

- ❖ What Is a Dimension?
- ❖ What are Facts?
- ❖ Multi Dimensional Model
- ❖ Hierarchies
- ❖ OLAP
- ❖ MOLAP
- ❖ ROLAP
- ❖ HOLAP
- ❖ Cubes and its Functions
- ❖ Star Schema
- ❖ Fact Table
- ❖ Dimensional Tables
- ❖ Snow flake Schema
- ❖ Fact less Fact Table
- ❖ Confirmed Dimensions

Data Modelling Tools

- ❖ Introduction to Erwin
- ❖ Forward Engineering
- ❖ Reverse Engineering
- ❖ Update Model, Alter database
- ❖ Complete compare

Informatica 7.1

1. Introduction to Information

- ❖ Overview
- ❖ Basic Definitions
- ❖ Informatica Products
- ❖ Informatica Architecture
- ❖ Tools and their roles
- ❖ Folders -sub Folders
- ❖ Power Center I Power Malt

2. Informatica Designer -Introduction

- ❖ Introduction to designer
- ❖ Designer interfaces
- ❖ Designer tools
- ❖ Defining Sources
 - ❖ (i) Database as a source
 - ❖ (ii) Rat Flies sources
- ❖ Defining Targets
- ❖ Importing from database
- ❖ Creating a new target
- ❖ Creating target database objects

3. Informatica Designer

- ❖ Mapping Introduction
- ❖ Source Qualifier
- ❖ Ports
- ❖ Mapping -Table to Table
- ❖ Mapping flat File to Table
- ❖ Connected/Unconnected Transformations
- ❖ Active and Passive Transformation
- ❖ Source Qualifier Transformation
- ❖ SQL Override-Source Qualifier Transformation

COURSE CONTENTS

- ❖ Mapping Source Qualifier as Filter
- ❖ Source qualifier to join Data
- ❖ Filter Transformation
- ❖ Expression Transformation
- ❖ Sequence Generator Transformation
- ❖ Rank Transformation
- ❖ Router Transformation
- ❖ Aggregator Transformation
- ❖ Joiner Transformation
- ❖ Stored procedure Transformation (Connected & Unconnected)
- ❖ Union Transformation
- ❖ XMI Transformation
- ❖ Mapping Wizards
- ❖ Implementing Type-I, Type-II, Type-III
- ❖ Mappings

4. Informatica -workflow Manager

- ❖ Workflow Introduction
- ❖ Tasks
- ❖ Workflow tools
- ❖ Connections
- ❖ Defining tasks
 - ❖ (i) Command Task
 - ❖ (ii) Email Task
 - ❖ (iii) Session Task
 - ❖ (iv) Link Conditions
 - ❖ (v) Event Wait & Event Raise
- ❖ Setting Properties of Session Task
- ❖ Creating Workflow
- ❖ Starting Workflow
- ❖ Monitoring Workflow

5. Informatica Advanced Features

- ❖ Incremental Aggregation
- ❖ Mapplet Implementation
- ❖ Target Load Plan
- ❖ Constraint based Loading
- ❖ Mapping Parameters
- ❖ Mapping Variables

- ❖ Session parameters
- ❖ Link Conditions
- ❖ Meta Data Backup & Restore
- ❖ Copying Repository
- ❖ Deleting Repository
- ❖ Sending Notification Messages

Business Objects 6.5 with BO-XI

- ❖ Desktop Products
- ❖ Designer Module
- ❖ Supervisor Module
- ❖ Business Objects
- ❖ Introduction to Designing Universes
- ❖ Reporting Requirements
- ❖ The Designer Module
- ❖ Populating the Structure with Tables
- ❖ Joins
- ❖ Creating and testing Classes & Objects
- ❖ Creating and testing Measure Objects
- ❖ Resolving loops In a Universe

Business objects with webintelligence 6.5

- ❖ Introduction to Webintelligence 6.5
- ❖ Getting Started with Infoview
- ❖ Viewing Documents in Infoview
- ❖ Creating New Documents with Queries
- ❖ Restriction Data Returned by a Query
- ❖ Displaying Information in different Ways
- ❖ Enhancing Report Presentation
- ❖ Formatting Reports
- ❖ Creating Formulae and Variables
- ❖ Analyzing Data at a Deeper Level
- ❖ Sharing Documents
- ❖ Architecture
- ❖ Designer
- ❖ CMS
- ❖ Desktop Intelligence
- ❖ Web Intelligence

COURSE CONTENTS

Cognos ReportNet with Cognso 8

- ❖ Introduction to Cog110S ReportNet
- ❖ Architecture
- ❖ Framework Manager
- ❖ Metadata Modelling
- ❖ Package Development
- ❖ Package Import & Export
- ❖ Query Studio
- ❖ Report Studio -Basics
- ❖ Report Studio -Advanced

DataStage 7.X

1.DataStage Administrator

- ❖ Server Properties
- ❖ DataStage Project Administration
 - Adding Projects
 - Deleting Projects
 - Cleaning up Project files
- ❖ NLS Configuration
 - Project Export Option
 - Project Import Option

2.DataStage Director

- ❖ Introduction to DataStage Director
- ❖ DataStage Director Window
- ❖ Jobs Status View
- ❖ DataStage Director Options
 - Limits Page
 - View Page
 - Priority Page
- ❖ **Running DataStage Jobs**
 - Validating a Job
 - Running a Job
 - Stopping a Job
 - Resetting a Job
 - Job Scheduling
 - Deleting a Job

❖ **Job Batches**

- Introduction to Job Batch
- Creating a Job Batch
- Running a Job Batch
- Scheduling a Job Batch
- Unscheduling a Job Batch

❖ **Monitoring Jobs**

- The Monitor Window
- Showing Unks
- Showing (I)U Usage
- Stage Status Window

3. DataStage Designer

- ❖ Importing Table Definitions
- ❖ Importing Flat Ale Definitions
- ❖ Designing Server Jobs
- ❖ Aggregator Stage
- ❖ Transformation Stage
- ❖ Annotations
- ❖ Annotations Descriptions
- ❖ Shared Containers
- ❖ Local Containers
- ❖ Reject Rows
- ❖ Implementing RouterStage
- ❖ Data Elements
- ❖ Routines
- ❖ Developing Custom Routines
- ❖ Job Sequencer
- ❖ Implementing Simple & Complex Jobs

4. DataStage Manager

- ❖ Introduction to DataStage Manager
- ❖ Importing Table Definitions
- ❖ Importing Flat File Definitions
- ❖ Managing the Meta Data Environment