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## Oracle Data Integrator Syllabus

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## Oracle Data Integrator Course Topics

- What Is Oracle Data Integrator?

- The Oracle Data Integrator Architecture

- ETL versus ELT

- Components

- Graphical Modules

## Topology Concepts

- Overview of the Topology

- What Is the Topology?

- The Physical Architecture

- Data Servers and Physical Schemas

- The Logical  Architecture

- Contexts and Agents

- Linking the Logical and Physical Architecture

## Setting Up a New Project

- Overview of Oracle Data Integrator Projects

- Creating a New Project

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- Folders

- Exporting and Importing

## Oracle Data Integrator Model Concepts

- Models, Sub-models,  Data Stores, constraints, filters

- Reverse-Engineering

- What Is Reverse-Engineering?

- Methods for DBMS Reverse-Engineering

- Standard Versus Customized Reverse-Engineering

## Interface Design:

- Creating and Naming a New Interface

- Defining the Target Datastore

- Defining the Source Datastore

- What Is a Mapping?

- Defining the Mappings

- Static / Flow Control

- Filters

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- ➢ Joins

- ➢ Handling Grouping clause

- ➢ Distinct

- ➢ Set operations

- ➢ Saving the Interface

## Executing and Debugging Interfaces

- ➢ How to Execute an Interface

- ➢ What Happens at Run Time

- ➢ Monitoring Interfaces

- ➢ Operator: Viewing the Log

- ➢ Sessions, Steps, Tasks: The Hierarchy

- ➢ Viewing Sessions and Tasks

- ➢ How to Monitor Execution of an Interface

- ➢ Troubleshooting a Session

## Defining Simple Procedures

- ➢ ODI  Procedure

- ➢ How to Create a New Procedure

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- ➢ Creating a New Command

- ➢ Arranging Steps in Order

- ➢ Which Parameters Should be Set?

- ➢ Command on source / command on target

- ➢ Options

## Variables and Sequences

- ➢ ODI  Variable

- ➢ Variable Scope

- ➢ Refreshing a Variable with SQL

- ➢ Binding Versus Substitution

- ➢ How to Create a Variable Step

- ➢ Properties of Sequences

- ➢ Using Oracle Data Integrator Sequences in Mappings

## Package Design 1

- ➢ What Is a Package?

- ➢ How to Create a Package

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- ➤ Package Diagram Toolbar

- ➤ How to Create an Interface Step

- ➤ How to Create an Oracle Data Integrator Tool Step

- ➤ A Simple Package

- ➤ How to Sequence Package Steps

- ➤ Executing a Package

## Package Design 2

- ➤ Types of Package Steps

- ➤ Basic & Advanced Step Types

- ➤ How to Create a Procedure Step

- ➤ Model, Sub-Model and Datastore Steps

- ➤ Models, Sub-Models, and Datastore Steps

- ➤ How to Create a Variable Step

- ➤ Controlling the Execution Path

- ➤ Controlling Execution

## Releasing Projects

- ➤ What Is a Scenario?

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- ➢ Properties of Scenarios

- ➢ Managing Scenarios

- ➢ Generating a Scenario

- ➢ Generation Versus Regeneration

- ➢ Executing a Scenario from the GUI

- ➢ Executing a Scenario from a Project

**Note: We will have practical sessions for all the topics mentioned above.**

## Data Warehousing Syllabus

- ➢ Evolution of Datawarehousing - History

- ➢ The need of Datawarehousing

- ➢ Why Datawarehousing

- ➢ What is Datawarehousing – The Definition

  - o Subject -Oriented

  - o Integrated

  - o Non – Volatile

  - o Time Varying

- ➢ Datawarehousing Architecture

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- o   Data Source Layer

- o   Data Extraction Layer

- o   Staging Layer

- o   ETL Layer

- o   Data Storage Layer

- o   Data Logic Layer

- o   Data Presentation Layer

- o   Metadata Layer

- o   System Operation Layer

- ➢   Dimension table

- ➢   Fact table

  - o   Additive Facts

  - o   Semi Additive Facts

  - o   Non – Additive Fact

  - o   Cumulative

  - o   Snapshot

- ➢   Attribute

- ➢   Hierarchy

- ➢   Types of Schema

  - o   Star Schema

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- o Snow Flake Schema

- o Fact Constellation Schema

- ➢ Slow Changing Dimension

    - o SCD1 – Advantages/ Disadvantages

    - o SCD2 – Advantages/ Disadvantages

    - o SCD3 – Advantages/ Disadvantages

- ➢ OLAP and OLTP

    - - Difference between OLAP and OLTP

    - - Types Of OLAP

        - o Multi-Dimensional (MOLAP)

        - o Relational(ROLAP)

        - o Hybrid(HOLAP)

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