ODI 12C

Course Summary

Description

From setting up the topology through to creating mapping, packages and load plans, this course features modules and labs covering many aspects of ODI 12c functionality. As with all of our courses, we bring our trainer to you and teach all of your team, together, how to make the most of Oracle's premier data integration tool, with one of our experienced consultants leading the sessions and sharing their project experience.

Topics

- Getting Started with ODI 12c
- ODI Topology
- ODI Projects
- Models and Data Stores
- Data Quality in a Model
- Introduction to ODI Mappings
- ODI Procedures, Variables, Sequences, and User Functions
- Advanced ODI Mappings
- Packages

- Scenarios
- Load Plans
- Scheduling
- The ODI Debugger
- Versioning
- Security
- Architecture and Installation
- Change Data Capture
- Integration with Oracle GoldenGate

Audience

This course is ideal for Developers, Consultants, Project Managers, Tech Leads, and DBAs.

Prerequisites

There are no prerequisites for this course.

Duration

Four days

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Course Outline

I. Getting Started with ODI 12c
  A. What is ODI?
  B. ODI Architecture
  C. ODI Principal Components
  D. Course environment
  E. Roadmap to create an integration project in ODI

II. ODI Topology
  A. ODI Topology
  B. Elements of ODI Topology
  C. Design Time vs Run Time

III. ODI Projects
  A. ODI Project
  B. Project Components
  C. Create a new Project
  D. Create a new Folder

IV. Knowledge Modules
  A. Types of KM
  B. Choosing the appropriate KM
  C. Importing Knowledge Modules

V. Models and Data Stores
  A. Datastores
  B. Data Model and Model Folders
  C. Reverse-Engineering a Model
  D. Reverse-Engineering a File Datastore
  E. Steps to Create a Model Folder with a RDBMS and a File Model
  F. View and Edit Datastore Data
  G. Defining OLAP Properties in Datastores

VI. Data Quality in a Model
  A. Why perform data quality checks in ODI?
  B. ODI Components for data quality
  C. Datastore constraints
  D. Datastore filters
  E. Static vs. Flow Control
  F. How to perform data quality checks in an ODI Model?
  G. Executing a Static Control Check
  H. View errors

VII. Introduction to ODI Mappings
  A. What is a Mapping?
  B. Logical and Physical Design
  C. Mapping Editor
  D. Creating a mapping
  E. Run mappings
  F. Using Operator Navigator to see results
  G. Understand errors

VIII. ODI Procedures, Variables, Sequences, and User Functions
  A. What are ODI Procedures?
  B. When create an ODI Procedure?
  C. Procedure Tasks
  D. Procedure Options
  E. Steps to create a Procedure
  F. ODI Variables
  G. Steps to create a Variable
  H. Substitution and Binding methods
  I. ODI Sequences
  J. Types of Sequences
  K. Create Sequences
  L. ODI User Functions
  M. Steps to create a User Function

IX. Advanced ODI Mappings
  A. Data integrity controls in a Mapping
  B. Using Data Sets
  C. Differences Between Flow and Dataset Modeling
  D. Create and Call Reusable Mappings
  E. Multiple Targets in a Mapping
  F. Parallel Target Table Load
  G. In-Session Parallelism
  H. Multiple Deployment Specifications

X. Packages
  A. ODI Package
  B. Controlling Execution in an ODI Package
  C. Package Editor
  D. Types of Steps
  E. Steps to create an ODI Package

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Course Outline (cont'd)

XI.   Scenarios
   A. ODI Scenario
   B. Generation options for ODI Scenarios
   C. Execution options for ODI Scenarios
   D. Generate an ODI Scenario
   E. Execute an ODI Scenario
   F. Regenerate an ODI Scenario
   G. Exporting and Importing scenarios

XII.   Load Plans
   A. ODI Load Plan
   B. ODI Load Plan Editor
   C. Load Plan Steps
   D. Steps to create a Load Plan
   E. Differences between Packages and Load Plans
   F. Running a Load Plan

XIII.   Scheduling
   A. ODI Scheduling
   B. Steps to Schedule a Scenario or a Load Plan
   C. Update an Agent's Schedule
   D. Displays the Schedule
   E. Using the View Schedule Dialog
   F. Schedule using an External Scheduler

XIV.   The ODI Debugger
   A. ODI Debugger
   B. ODI Session and Blueprints
   C. Debugging a session
   D. Session Editor
   E. Debug Session Options
   F. Steps to debug a session

XV.   Versioning
   A. Versioning in ODI
   B. ODI Objects that can be versioned
   C. Creating and Restoring a Version
   D. Comparing Versions
   E. Version Comparison Tool
   F. Manage Versions with the Object Editor
   G. Deleting a version
   H. Export a version
   I. Using the Version Browser

XVI.   Security
   A. Understand security in ODI
   B. Learn how to create users
   C. Learn how to create profiles
   D. Learn how to assign profiles
   E. Create user and assign profile

XVII. Architecture and Installation
   A. ODI Architecture Components
   B. ODI Studio
   C. Master and Work repositories
   D. ODI Agents
   E. When and where to use Java EE, Standalone and Colocated Agent
   F. Installation Types
   G. Installation and Configuration Steps

XVIII. Change Data Capture
   A. About Change Data Capture (CDC)
   B. CDC Process in ODI
   C. Journalizing Components
   D. Journalizing Modes in ODI
   E. Choosing the appropriate JKM
   F. Steps to implement CDC in ODI
   G. ODI Tools for CDC
   H. View Modified Data
   I. Start and Stop Journal
   J. Steps to Automate Journalized Setup

XIX.   Integration with Oracle GoldenGate
   A. About Oracle GoldenGate
   B. How ODI - GG integration works
   C. Benefits of ODI - GG integration
   D. Oracle GoldenGate JKMs
   E. OGG and ODI Integration Steps