Oracle Data Integrator 11g: Advanced Integration and Development

Duration: 3 Days

What you will learn

This Oracle Data Integrator training covers advanced techniques for using Oracle Data Integrator 11g (ODI). Learn to implement high-performance movement and transformation of data among various platforms.

Learn To:

Perform data integration and transformation among various platforms using advance techniques.

Design advanced ODI interfaces, procedures and packages to perform EL-T data transformations.

Set up ODI security by implementing strongly secured approach with non-generic profiles and external user authentication.

Develop and customize Knowledge Modules with substitution methods and Java.

Automate ODI tasks using Groovy script editor.

Implement various integration strategies with ODI using best practices.

Use ODI Web services and perform integration of ODI in an Enterprise environment and SOA.

Benefits to You

Improve performance and reduce integration costs across your organizations' heterogeneous systems. Centralize data across databases using your new skills to perform data integration, design advanced ODI interfaces, setup ODI security, and automate ODI tasks.

Administering the IT infrastructure & Metadata

This course will help you learn to use the ODI Studio for developing projects and models. Expert Oracle instructors will also explore how to monitor executions through instruction and hands-on exercises.

Advanced ODI development for High-Performance Data Integration

Furthermore, this course will teach you how to perform advanced ODI topology configuration. Learn to design advanced ODI interfaces, procedures, packages and other objects for high-performance data integration among various technologies.

Perform Extract Load Transform (EL-T) in Enterprise Environment

For enterprise SOA deployments, there is almost always a need for enterprise data extraction, loading and transformation. By leveraging the native SOA architecture within Oracle Data Integrator, this course will help you perform EL-T from SOA applications.

You'll also learn how to implement the integration of ODI in an Enterprise environment and in SOA. In addition, this course will teach you how to execute ODI transformation from a BPEL process.

Apply Strongly Secured Approach

Taking this course will help you learn how to enhance the ODI security by applying the Strongly Secured Approach and by implementing External Authentication. This course is based on Oracle Data Integrator 11g(11.1.1.6).

Audience
Business Analysts
Data Modelers
Data Warehouse Administrator
Database Administrators
SOA Architect
Technical Consultant

Related Training

Required Prerequisites

Basic Knowledge of ODI 11g

Basic knowledge of ELT data processing

Basic knowledge of SQL

Suggested Prerequisites
Oracle Data Integrator 11g: Integration and Administration

Working Knowledge of ODI 11g

Working knowledge of SQL

Course Objectives
Develop and enhance Knowledge Modules

Design advanced integration interfaces

Automate ODI tasks using ODI Groovy editor

Enhance ODI security with strongly secured approach

Expose ODI Scenarios as Web services

Integrate ODI in Enterprise environment and SOA

Describe best practices for implementing integration strategies

Describe Various ODI Integration Patterns

Course Topics

Developing ODI Knowledge Modules
Overview of Different Types of KMs
Guidelines for KM Developers
Working with Substitution Methods
Applying Various ODI Tags
Implementing Java in KMs
Troubleshooting and Debugging KMs

Designing Advanced Integration Interfaces
Designing Integration Interfaces: E-LT and ETL - Style Interfaces
Selecting LKM and Mono-Connection (Single Technology) IKM
Applying Best Practices for Integration Interfaces Design
Designing Temporary Interfaces
Implementing Lookups
Combining Multiple Datasets
Using Set-Based Operators
Partitioning ODI Datastores

Using variables
Describing a Variable's Scope
Inserting Variables in Object Properties
Using Variables within Variables
Defining Variables in the Resource Name of a Datastore
Applying Variables in Topology Objects
Setting Variables as Start Up Parameters
Tracking Variables

Using Groovy in ODI
Interacting Programmatically with ODI
Overview of ODI SDK
Introduction to Groovy
Using Groovy Editor
Automating Development Tasks with Groovy

Using Complex Files
What are Complex Files
Determining Technical Requirements for Complex Files Project
Applying nXSD Schema: an Example
Setting up the Topology for Complex Files
Creating and Reverse-Engineering a Complex Files Model
Designing an Interface with Complex Files

Enhancing ODI Security
Overview of ODI Security

Best Practices for Enhancing ODI Security
Applying Non-Generic Profiles
Configuring External Authentication
Configuring LDAP for External Authentication with ODI

Integration of ODI in Enterprise Environment
Configuring Java EE Agent
Monitoring ODI Environment with Enterprise Manager
Monitoring ODI Environment with ODI Console

Integration of ODI within SOA
Working with Web Services with ODI
Overview of Public Web Services
Invoking Web Services from ODI
Exposing ODI Scenario as a Web Service
Configuring the OdiInvokeWebService Tool
Executing an ODI Scenario from a BPEL Process within SOA

Choosing Integration Strategies: Best Practices
Selecting Integration Strategies
Loading and Integration Patterns
Selecting Staging Area Location
Working with Slowly Changing Dimensions
Working with Changed Data Capture
Using ODI with Oracle Golden Gate