



Oracle Data Integrator 12c: Advanced Integration and Development

Training Details

Training Time	:	3 Days
Capacity	:	16
Prerequisites	:	There are no prerequisites for this course.

About Training

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This Oracle Data Integrator course covers advanced techniques for using Oracle Data Integrator 12c (ODI). You learn how to implement high-performance movement and transformation of data among various platforms. 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 mappings, set up ODI security, and automate ODI tasks.

What You'll Learn

- Describe GoldenGate integration
- Design advanced integration mappings
- Automate ODI tasks using Groovy
- 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
- Develop and enhance Knowledge Modules
- Describe BigData support

Who Should Attend

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

Outline

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 Mappings

- Designing Integration Mappings: E-LT and ETL Mappings
- Selecting LKM and Mono-Connection (Single Technology) IKM
- Applying Best Practices for Integration Mapping Design
- Designing Reusable Mappings
- 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 a Mapping with Complex Files
- Implementing JSON 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

Integration of ODI in 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 in SOA

Choosing Integration Strategies: Best Practices

- Selecting Integration Strategies
- Loading and Integration Patterns
- Selecting Staging Area Location
- Working with Slowly Changing Dimensions (SCD)
- Working with Changed Data Capture
- Using ODI with Oracle GoldenGate
- Locate OGG/ODI VM for further research

ODI and Big Data

- Describe Big Data concepts
- Contrast Hadoop, NoSQL, Apache, Hive, HBase, HDFS
- Implement ODI mapping for Big Data to Oracle SQL
- Locate BigDataLite VM for further research