Szkolenie: Oracle
Oracle Data Integrator 12c: Integration and Administration

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* (+VAT zgodnie z obowiązującą stawką w dniu wystawienia faktury)

LOKALIZACJE

Kraków - ul. Tatarska 5, II piętro, godz. 9:00 - 16:00
Warszawa - ul. Bielska 17, godz. 9:00 - 16:00

Cel szkolenia:

Oracle Data Integrator is a comprehensive data integration platform that covers all data integration requirements from high-volume, high-performance batch loads, to event-driven integration processes and SOA-enabled data services. Oracle Data Integrator’s Extract, Load, Transform (E-LT) architecture leverages disparate RDBMS engines to process and transform the data - the approach that optimizes performance, scalability and lowers overall solution costs.

Plan szkolenia:

- Introduction
  - Identifying the Course Units
  - What is Oracle Data Integrator?
  - Why Oracle Data Integrator?
  - Overview of ODI Architecture
  - Overview of ODI Components
  - About Graphical Modules
  - Types of ODI Agents
  - Overview of Oracle Data Integrator Repositories
- Administering ODI Repositories and Agents
  - Administering the ODI Repositories
  - Creating Repository Storage Spaces
Creating and Connecting to the Master Repository
Creating and Connecting to the Work Repository
Managing ODI Agents
Creating a Physical Agent
Launching a Listener, Scheduler and Web Agent
Example of Load Balancing

ODI Topology Concepts
- Overview of ODI Topology
- About Data Servers and Physical Schemas
- Defining the Physical Architecture
- Defining the Logical Architecture
- Mapping Logical and Physical Resources
- Defining Agents
- Defining a Topology
- Planning the Topology

Describing the Physical and Logical Architecture
- Overview of Topology Navigator
- Creating Physical Architecture
- Creating a Data Server
- Testing a Data Server Connection
- Creating a Physical Schema
- Creating Logical Architecture
- Overview of Logical Architecture and Context Views
- Linking the Logical and Physical Architecture

Setting Up a New ODI Project
- Overview of ODI Projects
- Creating a New Project
- Creating and Maintaining Folders
- Organizing Projects and Folders
- Understanding Knowledge Modules
- Exchanging ODI Objects and Sharing Global Objects
- Exporting and Importing Objects
- Creating and Labeling with Markers

Oracle Data Integrator Model Concepts
- What is a Model?
- Understanding Metadata in ODI
Understanding Reverse Engineering
Creating Models
Organizing Models
Creating Data stores
Configuring Constraints in ODI
Creating Keys and References

Organizing ODI Models and Creating Data stores
  What is a Mapping?
  Business Rules for Mappings
  Creating a Basic Mapping
  What is a Join?
  What is a Filter?
  What is a Constraint?
  What is a Staging Area?

ODI Mapping Concepts
  What is a Mapping?
  Business Rules for Mapping
  What is a Mapping, a Filter, a Join?
  Overview of Integration Process
  What is a Staging Area?
  Execution Location
  Mapping with Knowledge Modules (KM)
  Creating an Intermediate Mapping

Designing Mappings
  Designing a Mapping
  Multiple Source Data stores
  Creating Joins
  Filtering Data
  Disabling Transformations
  Overview of the Flow
  Specifying the Staging Area
  Selecting Knowledge Modules

Mapping: Monitoring and Debugging
  Monitoring Mappings
  Creating Objects with Operator
  Viewing Sessions and Tasks
How to Monitor Execution of a Mapping
How to Troubleshoot a Session
Keys to Reviewing the Generated Code
Working with Errors
Tips for Preventing Errors

Designing Mappings: Advanced Topics
Mapping with Business Rules
Overview of Business Rule Elements
Creating and Tracking Variables
Creating User Functions
Mapping Substitution Methods
Modifying a KM
Showing Variable Values in Log
Customizing Reverse Engineering Using RKM

Creating and Running ODI procedures
What is a Procedure?
Examples of Procedures
Creating Procedures
Adding Commands
Adding Options
Running a Procedure
Viewing Results with Operator

Creating and Running ODI Packages
What is a Package?
Creating a Package
Executing a Package
Creating Advanced Packages
Error Handling
Controlling an Execution Path
Creating a Loop
Using the Advanced tab

Managing ODI Scenarios and Versions
What is a Scenario?
Managing Scenarios with Load Plans
Preparing Scenarios for Deployment
Automating Scenario Management
- Scheduling the ODI Scenario
- Overview of ODI version management
- Handling concurrent changes

- Enforcing Data Quality and Auditing Data with ODI
  - Why Data Quality?
  - When to Enforce Data Quality?
  - Data Quality in Source Applications
  - Data Quality Control in the Integration Process
  - Data Quality in the Target Applications
  - Enforcing Data Quality
  - Exploring Your Data
  - Auditing Data Quality

- Working with Changed Data Capture
  - Overview of ODI version management
  - Techniques of Changed Data Capture
  - Changed Data Capture in ODI
  - CDC Strategies and Infrastructure
  - CDC Consistency
  - Creating Change Data Capture (CDC)
  - Viewing Data/Changed data
  - Journalizing

- Administering ODI Resources: Advanced Topics
  - Using Open Tools
  - Installing Open Tools
  - Using Open Tools in a Package
  - Using Open Tools in a Procedure or in a KM
  - Developing Your Own Open Tools
  - Setting Up ODI Security
  - Defining Security Policies
  - Defining Password Policies

- Creating Web Services and Integration of ODI with SOA
  - Web Services in Action
  - Using Data Services
  - Setting Up Data Services
  - Testing Data Services
  - Installing Public Web Services
○ Using Public Web Services  
○ Invoking Web Services  
○ Integrating ODI with SOA  
○ Extending ODI with the SDK  
○ Coding SDK Public Interfaces  
○ Integrating through ODI SDK  
○ Examining SDK examples

Wymagania:

Wymagane prerekwizyty:

○ Basic knowledge of ELT data processing

Sugerowane prerekwizyty:

○ Working knowledge of SQL

Poziom trudności

Certyfikaty:

Uczestnicy szkoleń otrzymają zaświadczenia o ukończeniu kursu sygnowane przez firmę Oracle.

Prowadzący:

Autoryzowany wykładowca Oracle.