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

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<th>CZAS TRWANIA</th>
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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.