Szkolenie: Oracle
Oracle Database 12c: Use XML DB

ORACLE APPROVED EDUCATION CENTER

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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:

This Oracle Database 12c: Use XML DB training allows you to deep dive into the key features of Oracle XML DB. Through interactive instructions and hands-on exercises, expert Oracle University instructors will teach you how to use Oracle XML DB to store, access, manipulate, validate, search, update, annotate, transform, generate, import and export XML data.

Plan szkolenia:

- Introduction
  - Questions About You
  - Course Objectives
  - Course Prerequisites
  - Suggested Course Agenda
  - Database Schema
  - Appendixes
  - Class Account Information
  - Course Environments
- Introduction to Oracle XML
  - What is XML?
  - Example: A Simple XML Document
  - Markup Rules for Elements

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- XML Attributes
- Well-Formed XML Documents
- Document Type Definitions (DTD) and XML Schemas
- Why Validate an XML Document
- XPath and XQuery

- Introduction to Oracle XML DB
  - Oracle XML DB
  - Oracle XML DB: Benefit
  - Oracle XML DB: Features
- Storing XML Data in Oracle XML DB
  - XMLType: Overview
  - Describe XMLType storage options
  - Create objects of XMLType
  - Declaring an XMLType
  - Insert data into XMLType
  - XMLType Storage Characteristics
  - XMLType Storage Models
  - Specifying SQL Constraints
- Using XML Schema with Oracle XML DB
  - Using XML Schema with Oracle XML DB: Overview
  - XMLType and XML Schema
  - XML Schema Management
  - Creating XML Schema-Based XMLType Tables and Columns
  - Specifying Unstructured Storage of XML Schema-Based Data
  - Managing Changes in an XML Schema
- Oracle XML DB Manageability
  - Oracle XML Schema Annotations
  - Common Uses of XML Schema Annotations
  - Annotations Methods
  - Purchase-Order XML Schema: purchaseOrder.xsd
  - Annotated Purchase-Order XML Schema: purchaseOrder.xsd
  - Annotating an XML Schema by Using DBMS_XMLSCHEMA_ANNOTATE
  - Annotation Subprogram Parameters
  - Some of the Available Oracle XML DB XML Schema Elements Annotations
- Partitioning XMLType Tables
  - Partitioning concepts

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- Ordered collection tables
- Partitioning XMLType tables and columns stored object-relationally
- Specifying partitioning information for an XMLType base table
- Partition maintenance
- Online partition redefinition for ordered collection tables
- Partitioning Binary XML Tables

- Using XQuery to Retrieve XML Data in Oracle XML DB
  - Retrieving XML content
  - Using FLWOR expressions: review
  - XQuery support in Oracle Database
  - Querying the database: relational data
  - Querying the database: XMLType data
  - Querying XMLType data by using SQL/XML standard functions
- Querying XMLType data by using SQL/XML standard functions
  - Migrating from Oracle Functions for Updating XML Data to XQuery Update
  - XQuery Update Snapshots
  - Updating XML Data
  - Updating an Entire XML Document
  - General Syntax for an XQuery Update
  - Replacing XML Nodes (Current State)
  - Replacing XML Nodes (Updated State)
  - Updating XML Data to NULL Values Considerations
- Search XML Content Using XQuery Full-Text
  - Full-Text Search Capabilities
  - Available Documentation
  - Full-Text contains Expression
  - Indexing for XQuery Full Text
  - Requirements for Creating XQuery Full Text Index
  - Indexing for XQuery Full Text: Best Performance
  - Using XML Schema-Based Data with XQuery Full Text
  - Error ORA-18177: Using XML Schema-Based Data with XQuery Full Text
- Indexing XMLType Data
  - Indexing XMLType data
  - Using XMLIndex index
  - What is XMLIndex?
  - XMLIndex Unstructured Component

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- New: XMLIndex Structured Component
- Guidelines

- Generating XML Data
  - Generating XML data by using XQuery
  - Generating XML data by using the SQL/XML standard functions
  - Generating XML data by using the DBMS_XMLGEN PL/SQL package
- Transforming XML Data
  - Creating XMLType views
  - Transforming XML
  - Use XQuery to transform XML
- Creating Relational Views over XML Data
  - Introduction to Creating and Using Relational Views over XML Data
  - Creating a Relational View over XML: One Row for Each XML Document
  - Creating a Relational View over XML: Mapping XML Nodes to Columns
  - Examining the View in Oracle SQL Developer
  - Indexing Binary XML Data Exposed Using a Relational View
  - Querying XML Content As Relational Data
- Accessing Resources in Oracle XML DB Repository
  - XML DB Repository: overview
  - Creating folders and resources using PL/SQL
  - Accessing resources
  - Access control lists
  - Compound documents
  - Repository events
- Using Native Oracle XML DB Web Services
  - Overview of Web Services
  - Overview of Native Oracle XML DB Web Services
  - Configuring Web Services for Oracle XML DB
  - Enabling Web Services for Oracle XML DB
  - Querying Oracle XML DB using a Web Service
  - Accessing PL/SQL Stored Procedures using a Web Service
- Exporting and Importing XML Data
  - SQL*Loader
  - Loading XMLType data
  - Oracle Data Pump

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Wymagania:

Wymagane prerekwizyty:

- Basic experience with SQL and PL/SQL
- XML Fundamentals Ed 1.1
- Oracle Database: Develop PL/SQL Program Units

Sugerowane prerekwizyty:

- Familiarity with Oracle SQL Developer
- Familiarity with SQL*Plus
- Familiarity with PL/SQL

Poziom trudności

Certyfikaty:

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

Prowadzący:

Autoryzowany wykładowca Oracle.

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