

Szkolenie: Oracle
Oracle Database: SQL Tuning for Developers

FORMA SZKOLENIA	MATERIAŁY SZKOLENIOWE	CENA	CZAS TRWANIA
Stacjonarne	Cyfrowe	4470 PLN NETTO*	3 dni
Stacjonarne	Tablet CTAB	5070 PLN NETTO*	3 dni
Metoda dlearning	Cyfrowe	4470 PLN NETTO*	3 dni
Metoda dlearning	Tablet CTAB	4470 PLN NETTO*	3 dni

* (+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:

In the **Oracle Database: SQL Tuning for Developers** course, you learn about Oracle SQL tuning and how to apply tuning techniques to your SQL code. Learn the different ways in which data can be accessed efficiently.

Learn To:

- Use Oracle tools to identify inefficient SQL statements.
- Use Automatic SQL Tuning.
- Use Real Time SQL monitoring.
- Write more efficient SQL statements.
- Monitor and trace high load SQL statements.
- Manage optimizer statistics on database objects.
- Understand the optimizer process steps and operators.
- Interpret execution plans.
- Perform application tracing.

Plan szkolenia:

- Introduction
 - Course Objectives, Course Agenda and Appendixes Used in this Course
 - Audience and Prerequisites

- Sample Schemas Used in the Course
- Class Account Information
- SQL Environments Available in the Course
- Workshops, Demo Scripts, and Code Example Scripts
- Appendices in the Course
- Introduction to SQL Tuning
 - SQL Tuning Session
 - SQL Tuning Strategies
 - Development Environments: Overview
 - SQLTXPLAIN (SQLT) Diagnostic Tool
- Using Application Tracing Tools
 - Using the SQL Trace Facility: Overview
 - Steps Needed Before Tracing
 - Available Tracing Tools: Overview
 - The trcsess Utility
 - Formatting SQL Trace Files: Overview
- Understanding Basic Tuning Techniques
 - Developing Efficient SQL statement
 - Scripts Used in This Lesson
 - Table Design
 - Index Usage
 - Transformed Index
 - Data Type Mismatch
 - NULL usage
- Optimizer Fundamentals
 - SQL Statement Representation
 - SQL Statement Processing
 - Why Do You Need an Optimizer?
 - Components of the Optimizer
 - Query Transformer
 - Cost-Based Optimizer
 - Adaptive Query Optimization
 - Optimizer Features and Oracle Database Releases
- Generating and Displaying Execution Plans
 - Execution Plan?
 - The EXPLAIN PLAN Command

- Plan Table
- AUTOTRACE
- V\$SQL_PLAN View
- Automatic Workload Repository
- SQL Monitoring
- Interpreting Execution Plans and Enhancements
 - Interpreting a Serial Execution Plan
 - Adaptive Optimizations
- Optimizer: Table and Index Access Paths
 - Row Source Operations
 - Main Structures and Access Paths
 - Full Table Scan
 - Indexes
 - Common Observations
- Optimizer Join Operations
 - Join Methods Join Types
- Other Optimizer Operators
 - SQL operators
 - Other N-Array Operations
 - Result Cache operators
- Introduction to Optimizer Statistics Concepts
 - Optimizer Statistics
 - Types of Optimizer Statistics
 - Gather and Manage Optimizer Statistics: Overview
- Using Bind Variables
 - Cursor Sharing and Different Literal Values
 - Cursor Sharing and Bind Variables
- SQL Plan Management
 - Maintaining SQL Performance
 - SQL Plan Management
- Workshops
 - Workshop 1
 - Workshop 2
 - Workshop 3
 - Workshop 4
 - Workshop 5

- Workshop 6 & 7
- Workshop 8
- Workshop 9

Wymagania:

Recommended Related Training Courses:

- Using Java - for PL/SQL and Database Developers
- Oracle Database: SQL Workshop II
- Oracle Database: SQL Tuning for Developers
- Oracle Database: Develop PL/SQL Program Units
- Oracle Database: PL/SQL Fundamentals

Poziom trudności



Certyfikaty:

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

Prowadzący:

Autoryzowany wykładowca Oracle.