

Szkolenie: Oracle
Oracle Database 11g: Performance Tuning


FORMA SZKOLENIA	MATERIAŁY SZKOLENIOWE	CENA	CZAS TRWANIA
Stacjonarne	Cyfrowe	7450 PLN NETTO*	5 dni
Stacjonarne	Tablet CTAB	8050 PLN NETTO*	5 dni
Metoda dlearning	Cyfrowe	7450 PLN NETTO*	5 dni
Metoda dlearning	Tablet CTAB	7450 PLN NETTO*	5 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:

Students learn how to use Oracle Database 11g automatic tuning features such as SQL Tuning Advisor, SQL Access Advisor, Automatic Workload Repository and Automatic Database Diagnostic Monitor, and practice these tuning methods. The course focuses on the tuning tasks expected of a DBA: reactive tuning of SQL statements, maintaining SQL statement performance, and tuning the Oracle Database Instance components. Throughout the course, students practice the art of tuning an Oracle Instance through a series of workshops. The methodology is practiced in the workshops rather than taught.

This course does not address partition tuning, materialized views, or RAC specific issues as they are covered in courses specifically for these products. This course makes use of many features that require the Enterprise Edition and optional Packs.

Plan szkolenia:

- Introduction
 - Tuning Questions
 - Who tunes
 - What to tune
 - How to tune
- Monitoring With Basic Tools
 - Monitoring tools overview
 - Enterprise Manager

- V\$ views, Statistics and Metrics
- Wait Events
- Time Model: Overview
- Using Automatic Workload Repository
 - Automatic Workload Repository: Overview
 - Automatic Workload Repository Data
 - Database Control and AWR
 - Generating AWR Reports in SQL*Plus
- Identifying the Problem
 - Tuning Life Cycle Phases
 - Identify a Tuning Issue
 - Remedy one problem
- Identifying Problem SQL Statements
 - Characteristics of a bad SQL statement
 - Role of the Optimizer
 - Generate explain plan
 - Access Paths Choices
 - Trace the execution
- Influencing the Optimizer
 - Manage Optimizer Statistics
 - Calibrate I/O
 - Optimizer Cost
 - Changing Optimizer Behavior
- SQL Plan Management
 - Automatic Maintenance Tasks
 - SQL Profiles
 - SQL Access Advisor
 - SQL Outlines
 - SQL Plan Baselines
- Change Management
 - Types of changes
 - SQL Performance Analyzer
 - DB Replay
 - Server-Generated Alerts
- Using Metrics and Alerts
 - Benefits of Metrics

- Database Control Usage Model
- User-Defined SQL Metrics
- Using AWR Based Tools
 - Automatic Maintenance Tasks
 - Using ADDM
 - Using Active Session History
 - Historical Data View
- Monitoring an Application (Using Services)
 - Service Overview
 - Managing Service
 - Service Aggregation and Tracing
 - Tracing Your Session
- Baselines
 - Working with Metric Baselines
 - Setting Adaptive Alert Thresholds
 - Configuring Normalization Metrics
- Tuning the Shared Pool
 - Shared Pool Operation
 - Mutex
 - Statspack/AWR Indicators
 - Library Cache Activity
 - Diagnostic Tools
 - UGA and Oracle Shared Server
 - Large Pool
- Tuning the Buffer Cache
 - Architecture
 - Tuning Goals and Techniques
 - Symptoms
 - Solutions
- Tuning PGA and Temporary Space
 - Monitoring SQL Memory Usage
 - Temporary Tablespace Management
- Automatic Memory Management
 - Automatic Memory Management Architecture
 - Dynamic SGA Feature
 - Managing Automatic Memory Management

- Tuning Block Space Usage
 - Space Management
 - Extent Management
 - Anatomy of a Database Block
 - Block Space Management
- Tuning I/O
 - I/O Architecture
 - Striping and Mirroring
 - Using RAID
 - I/O Diagnostics
 - Using Automatic Storage Management
- Performance Tuning: Summary
 - Important Initialization Parameters with Performance Impact
 - Database High Availability: Best Practices
 - Tablespace: Best Practices
 - Statistics Gathering
- Using Statspack
 - Introduction to Statspack
 - Capturing Statspack Snapshots
 - Reporting with Statspack
 - Statspack considerations
 - Statspack and AWR

Wymagania:

Required Prerequisites:

- Oracle Database 11g: Administration Workshop I DBA
- Oracle Database 11g: Administration Workshop II DBA

Poziom trudności



Certyfikaty:

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

Prowadzący:

Autoryzowany wykładowca Oracle.