

Oracle Training: Professional Database Tuning & Optimization (ORATUNING, 4 jours)

Description

The course Professional Database Tuning & Optimization (Oracle Training) is a detailed exploration of Oracle database performance tuning and optimization. The training includes a discussion of the tools of the performance tuning trade and quickly proceeds to coverage of structural SQL optimization techniques and PL/SQL code optimization. The course covers database indexing and server & memory optimization techniques. Fine tune your Oracle database to make them lightning fast.

Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Performance Tuning and Optimization

Learning Objectives

Performance Tuning with Initialization Parameters

Using the Oracle SQL Trace Utility

Stored Outlines

Query Tuning

Objectives Covered

Monitoring System Performance

Learning Objectives

Overview of the AWR

Identifying Problems

Baselines

Analyzing AWR Output

Metrics and Alerts

Objectives Covered

SQL Statement Structural Optimization

Learning Objectives

Optimizing for Range Queries

Optimizing for Point Queries

Optimizing Sort Operations

Optimizing for Aggregate Calculations

Optimizing for Join Operations

Optimizing Complex SQL Queries

Objectives Covered

Enhancing PL/SQL Performance

Learning Objectives

Overview

Log Timing Information

Use ROWID when Performing Iterative Processing

Standardize the PL/SQL Code

Using the Shared Pool and Pinning PL/SQL Objects

Finding Invalid Objects

Finding Disabled Triggers

Using PL/SQL Associative Arrays for Table Lookups

Using Rollback Segments

SQL Performance Analyzer

Objectives Covered

Indexing

Learning Objectives

Overview of Index Types

Choosing the Right Index

Creating Indexes

Rebuilding Indexes

Overview of Partition Indexes

Maintaining Partition Indexes

Maximizing Performance with Local and Global Indexes

Monitoring Index Partition Usage

Overview of Unusable Indexes

Rebuilding Unusable Indexes

Objectives Covered

Query Optimizer

Learning Objectives

Join Methods

Using Hints to Influence the Optimizer

Bitmap Join Index

Objectives Covered

Memory Tuning

Learning Objectives

Automatic Memory Management

Tuning the Shared Pool

Tuning the Buffer Cache

Tuning PGA and Temporary Space

Tuning Segment Space Usage

Tuning I/O

Objectives Covered

Database Replay

Learning Objectives

Overview

Workload Capture

Preprocessing a Workload

Replaying a Workload

Analyzing a Replayed Workload

Objectives Covered

A Complete Database Tuning and Optimization Lab
