Oracle SQL Tuning for Developers Workshop

Duration: 3 Days

What you will learn

This Oracle SQL Tuning for Developers Workshop will help you explore Oracle SQL statement tuning. Learn how to write well-tuned SQL statements appropriate for the Oracle database.

Learn To:

Interpret execution plans and the different ways in which data can be accessed.
Decipher, decide and then apply tuning to SQL code. Use various tuning techniques.
Take advantage of bind variables, trace files and use the different types of indexes.
Use different access paths for better optimization.

Benefits to You

Ensure fast, reliable, secure and easy to manage performance. Optimize database workloads, lower IT costs and deliver a higher quality of service by enabling consolidation onto database clouds.

Understand Basic Tuning Techniques

Expert instructors will also teach you how to rewrite queries for better performance. Furthermore, you'll learn how to utilize SQL Tuning Advisor using SQL Developer 3.0.

Audience

Data Warehouse Developer
Database Designers
Developer
PL/SQL Developer

Related Training

Required Prerequisites

Oracle Database: Introduction to SQL

Suggested Prerequisites

Oracle Database: Conceptos Fundamentales de PL/SQL

Oracle Database: Fundamentos de PL/SQL

Course Objectives

Choose an appropriate SQL tuning approach

Gather and interpret session statistics using the SQL trace facility

Identify the SQL statements that perform poorly

Use tuning techniques to tune inefficient SQL statements

Interpret Execution Plans

Describe the Oracle optimizer fundamentals

Manage SQL performance through changes

Course Topics

Introduction

Introduction to SQL Tuning
Find a workaround to enhance performance
Analyze a poorly written SQL statement
Create a function based index
Redesign a simple table
Rewrite the SQL statement

Using SQL Trace Facility and TKPROF
Explore a trace file to understand the optimizer’s decisions

Understand Basic Tuning Techniques
Rewrite queries for better performance
Rewrite applications for better performance
Utilize SQL Tuning Advisor using SQL Developer 3.0

Optomizer Fundamentals
Explore a trace file to understand the optimizer’s decisions

Understanding Serial Execution Plans
Use different techniques to extract execution plans
Use SQL monitoring

Optimizer: Table and Index Access Paths
Learn about using different access paths for better optimization

Optimizer: Join Operations
Use different access paths for better optimization
Examine and use the result cache

Other Optimizer Methods
Use different access paths for better optimization

Examine and use the result cache

Optimizer Statistics
Analyze and use system statistics
Use automatic statistics gathering

Using Bind Variables
Use adaptive cursor sharing and bind peeking
Use the CURSOR_SHARING initialization parameter

SQL Plan Management
Use SQL Plan Management