Oracle 19c SQL Performance Tuning

Cursusduur: 2 Dagen   Cursuscode: O19CSPT

Beschrijving:

Oracle 19c SQL Performance Tuning Course Overview
English - Please note this course is only available in English.
Nederlands - Let op: deze training is alleen in het Engels beschikbaar.
Français - Veuillez noter que ce cours est uniquement disponible en anglais.

This Oracle 19c SQL Performance Tuning course introduces the delegate to the main concepts of Oracle SQL performance tuning. It is de

Doelgroep:

Who will the Course Benefit?
The Oracle 19c SQL Performance Tuning course is designed for SQL programmers,application developers,designers and technical support professionals who are required to tune the performance of an Oracle application running under an Oracle Database.

Doelstelling:

- Course Objectives

- To provide the skills needed to monitor and tune an Oracle database application.

Vereiste kennis en vaardigheden:

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A working knowledge of SQL is required. This can be obtained by attendance on the pre-requisite Oracle SQL course.

Vervolgcursussen:

Further Learning

- Oracle PL/SQL
- Oracle Program with PL/SQL
- Oracle Advanced PL/SQL

Cursusinhoud:

Oracle 19c SQL Performance Tuning Training Course   Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: INTRODUCTION TO ORACLE PERFORMANCE TUNING

- Overview of Oracle Database Tuning
- Application Developer Tuning Responsibilities
- Oracle DBA Tuning Responsibilities
- Oracle Tuning Process
- Plan a Routine Monitoring Regime
- Setting Suitable Goals
- Syntax Considerations

Session 2: TOOLS FOR EVALUATING SQL STATEMENTS

- Overview of SQL Statement Tuning
- Tools to Assist in SQL Tuning
- Use Explain Plan,Autotrace and SQL Trace to Examine the Execution of a SQL Statement
- Interpreting a SQL Trace

Session 3: THE SQL OPTIMIZER

- The SQL Optimizer
- Statement Transformation
- The Optimizer_Mode Initialization Parameter
- Cost Based Optimizer
- Managing Statistics with DBMS_STATS
- Automatic Statistics Gathering
- Dynamic Statistics
- Adaptive Optimization
- Transferring Statistics between Databases

Session 4: SORTS

- How Oracle Processes Sorts
- Temporary Disk Space Assignment
- SQL Operations that Use Sorts

Session 5: INDEXES

- Index Overview
- Selecting Suitable Columns for an Index
- B*Tree Indexes
- Rebuild an Index
- Create Multiple Indexes on the Same Column
- Composite Indexes
- Descending Indexes
- Access Paths with Indexes
- Index Scans
- Conditions That Stop Indexes Being Used
- Parameters that Affect Optimizer Index Choice   Oracle 19c SQL Performance Tuning Training Course   Course Contents - DAY 2

Session 6: ADVANCED INDEXES

- Bitmap Indexes
- Key Compressed Indexes
- Index Organized Tables
- Function Based Indexes
- Invisible Indexes
- Table Partitioning
- Serial Direct Path Reads

Session 7: JOIN OPERATIONS

- Understand Access Paths
- Joining Tables
- Nested Loops Join
- Merge Join
- Cluster Join
- Hash Join
- Anti Join and Semi Join
- Outer Joins
- Star Join
- Improve Optimization with Different Access Paths

Session 8: SQL TUNING ADVISOR USING SQL DEVELOPER

- Overview of the DBMS_SQLTUNE Package
- Using the SQL Tuning Advisor with SQL Developer

Session 9: SEQUENCES AND VIEWS

- Sequence Caching
- Views
- View Merging
- Inline Views
- The WITH Clause

Session 10: USING HINTS

- Using Hints to Influence Execution Plan
- Optimization Mode and Goals
- Access Methods
- Query Transformations
- Join Orders
- Join Operations
- Hint Examples

Session 11: MISCELLANEOUS

- Tips for Avoiding Problematic Queries
- SQL Performance Settings Options
- Array Size
- The Shared Pool
- Intelligent Cursor Sharing
- Bind Variable Usage
- Virtual Columns
- Result Caching
- Approximate Query Processing
- Some PL/SQL Performance Issues

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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