ODAT-6 - ORACLE DATABASE 19C: SQL TUNING WORKSHOP

Categoria: **Database**

INFORMAZIONI SUL CORSO

Durata:	Categoria:	Qualifica Istruttore:	Dedicato a:	Produttore:
4 Giorni	Database	Oracle Certified Professional	Sviluppatore	Oracle

OBIETTIVI

-Identificare i problemi nelle istruzioni SQL
-Modificare un'istruzione SQL per eseguirla al meglio
-Effettuare la traccia di un'applicazione
-Capire come il Query Optimizer prende decisioni sulle modalità di accesso ai dati
-Interpretare i piani di esecuzione
-Utilizzare hint di ottimizzazione efficace
-Generare un test di carico

PREREQUISITI

Oracle Database 19c: SQL Workshop

CONTENUTI

1: Course Introduction

-Course Introduction
-Workshop 1: Enhancing the Performance of a SQL Query Statement

2: Introduction to SQL Tuning

-Introduction to SQL Tuning
-Quick Solution Strategy
-Workshop 2: Reviewing the Execution Steps of the SQL Statement
-Practice 2-1: Using SQL Developer

3: Using Application Tracing Tools

-Using Application Tracing Tools
-trcsess Utility
-Workshop 3: Learn to Tune Sort Operation Using an Index in the ORDER BY Clauses
-Practice 3-1: Tracing Applications (Part 01)
-Practice 3-1: Tracing Applications (Part 02)

4: Optimizer Fundamentals

- -Optimizer Fundamentals
- -Query Estimator: Selectivity and Cardinality
- -Plan Generator
- -Workshop 4: Identifying and Tuning a Poorly Written SQL Statement
- -Practice 4-1: Understanding Optimizer Decisions (Optional)

5: Generating and Displaying Execution Plans

- -Generating and Displaying Execution Plans
- -AUTOTRACE
- -Automatic Workload Repository
- -Workshop 5: Effects of Changing the Column Order in a Composite Index
- -Practice 5-1: Extracting an Execution Plan by Using SQL Developer
- -Practice 5-2: Extracting Execution Plans

6: Interpreting Execution Plans and Enhancements

- -Interpreting Execution Plans and Enhancements
- -Workshop-6: Using Information in the 10053 File to Tune a SQL Statement
- -Practice 6-1: Using Dynamic Plans

7: Optimizer: Table and Index Access Paths

- -Optimizer: Table and Index Access Paths
- -Indexes: Overview
- -Bitmap Indexes
- -Common Observations
- -Workshop 7: Understanding the Optimizer’s Decision
- -Practice 7-1: Using Different Access Paths (Part 01)
- -Practice 7-1: Using Different Access Paths (Part 02)
- -Practice 7-1: Using Different Access Paths (Part 03)
- -Practice 7-1: Using Different Access Paths (Part 04)

8: Optimizer: Join Operators

- -Optimizer: Join Operators
- -Workshop 8: Tuning Strategy
- -Practice 8: Using Join Paths

9: Other Optimizer Operators

- -Other Optimizer Operators
- -Workshop 9: Using SQL Plan Baseline to Manage a Better Execution Plan
- -Practice 9-1: Using the Result Cache
- -Practice 9-2: Using Other Access Paths (Optional)

10: Introduction to Optimizer Statistics Concepts

- -Introduction to Optimizer Statistics Concepts
- -Column Statistics: Histograms
- -Session-Specific Statistics for Global Temporary Tables
- -Practice 10-1: Index Clustering Factor
- -Practice 10-2: Creating Expression Statistics
- -Practice 10-3: Enabling Automatic Statistics Gathering Optional (Part 01)

-Practice 10-3: Enabling Automatic Statistics Gathering Optional (Part 02)
-Practice 10-4: Using System Statistics (Optional)

11: Using Bind Variables
-Using Bind Variables
-Cursor Sharing Enhancements
-Practice 11-1: Using Adaptive Cursor Sharing
-Practice 11-2: Using CURSOR_SHARING (Optional)

12: SQL Plan Management
-SQL Plan Management
-Configuring SQL Plan Management
-Possible SQL Plan Manageability Scenarios
-Practice 12-1: Using SQL Plan Management SPM (Part 01)
-Practice 12-1: Using SQL Plan Management SPM (Part 02)

13: Workshops
-Workshops

INFO

Materiale didattico: Materiale didattico ufficiale Oracle in formato digitale
Costo materiale didattico: incluso nel prezzo del corso a Calendario
Natura del corso: Operativo (previsti lab su PC)