

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

Categoria: **Database**

INFORMAZIONI SUL CORSO



Durata:
4 Giorni



Categoria:
Database



Qualifica Istruttore:
Oracle Certified
Professional



Dedicato a:
Sviluppatore



Produttore:
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

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- 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

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- 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

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- 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

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- 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

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- 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)