



ORADB_SQLTW - Oracle Database SQL Tuning Workshop

Oracle - Oracle Sviluppo - Sviluppo

Durata:

3 Giorni

Lingue:

Italiano

Certificazione:

-

Descrizione del corso

This course introduces query optimization techniques by examining Oracle's syntax and statement processing. A good knowledge of SQL is required.

Programma

Introduction to SQL Tuning

Introduction to the Optimizer

- SQL Statement Parsing: Overview
- Optimization During Hard Parse Operation
- Transformer & Estimator
- Cost-Based Optimizer
- Plan Generator

Interpreting Execution Plans

Execution Plan? Where To Find Execution Plans and Viewing Execution Plans

- Plan Table & AUTOTRACE
- Using the V\$SQL_PLAN View
- Automatic Workload Repository (AWR)

ITCore Group

Via Balestra, 12
6900 Lugano (CH)
+41.091.9760019
www.itcoregroup.com

Via Lanino, 36
21047 Saronno (VA)
+39.02.84108669
www.itcoregroup.com

- SQL Monitoring: Overview
- Interpreting an Execution Plan
- Reading More Complex Execution Plans and Reviewing the Execution Plan
- Looking Beyond Execution Plans

Optimizer: Table and Index Operations

- Access Paths
- Full Table Scan
- Indexes: Overview and B*-tree Indexes and Nulls
- Using Indexes: Considering Nullable Columns
- Index-Organized Tables
- Bitmap Indexes, Bitmap Operations and Bitmap Join Index
- Composite Indexes and Invisible Index
- Guidelines for Managing Indexes and Investigating Index Usage

Optimizer Join Methods

- Nested Loops Join
- Sort Merge join
- Hash Join and Cartesian Join
- Outer Joins

Optimizer Statistics

- Types of Optimizer Statistics
- Table, Index and Column Statistics
- Index Clustering Factor
- Histograms, Frequency Histograms and Histogram Considerations
- Multicolumn Statistics and Expression Statistics Overview
- Gathering System Statistics and Statistic Preferences
- Manual Statistics Gathering
- Locking Statistics, Export/Import Statistics and Set Statistics

Using Bind Variables

- Cursor Sharing and Different Literal Values
- Cursor Sharing and Bind Variables

ITCore Group

Via Balestra, 12
6900 Lugano (CH)
+41.091.9760019
www.itcoregroup.com

Via Lanino, 36
21047 Saronno (VA)
+39.02.84108669
www.itcoregroup.com

- Bind Variable Peeking
- Cursor Sharing Enhancements
- The CURSOR_SHARING Parameter
- Forcing Cursor Sharing
- Adaptive Cursor Sharing
- Interacting with Adaptive Cursor Sharing

SQL Tuning Advisor, SQL Access Advisor

SQL Performance Management

- Maintaining SQL Performance and SQL Plan Management: Overview
- SQL Plan Baseline: Architecture
- Important Baseline SQL Plan Attributes
- SQL Plan Selection
- Possible SQL Plan Manageability Scenarios
- SQL Performance Analyzer and SQL Plan Baseline Scenario
- Loading a SQL Plan Baseline Automatically and Purging SQL Management Base Policy

ITCore Group

Via Balestra, 12
6900 Lugano (CH)
+41.091.9760019
www.itcoregroup.com

Via Lanino, 36
21047 Saronno (VA)
+39.02.84108669
www.itcoregroup.com