

OD-19c-SQLTQ: Oracle Database 19c: SQL Tuning Workshop

Course Code: OD-19c-SQLTQ

Duration: 3 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

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

MySQL Cloud Service provides numerous benefits over an on-premise database. It is easy to create a cloud instance, with flexible options for computing power, memory, and storage. GUI tools are available for backup and restore as well as patching and rolling back. After completing this course, you can take advantage of those benefits to use MySQL Cloud Service to its best advantage.

SKILLS COVERED

- 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

WHO SHOULD ATTEND?

This course intended for database developers, DBAs, and SQL developers.

PREREQUISITES

- Oracle Database: Introduction to SQL

COURSE CONTENTS

Lesson 01: Introduction to SQL Tuning

- Introduction to SQL Tuning
- Quick Solution Strategy

Lesson 02: Using Application Tracing Tools

- Using Application Tracing Tools
- trcsess Utility

Lesson 03: Optimizer Fundamentals

- Optimizer Fundamentals
- Query Estimator: Selectivity and Cardinality
- Plan Generator

Lesson 04: Generating and Displaying Execution Plans

- Generating and Displaying Execution Plans
- AUTOTRACE
- Automatic Workload Repository

Lesson 05: Interpreting Execution Plans and Enhancements

Lesson 06: Optimizer: Table and Index Access Paths

- Optimizer: Table and Index Access Paths
- Indexes: Overview
- Bitmap Indexes
- Common Observations

Lesson 07: Optimizer: Join Operators

Lesson 08: Other Optimizer Operators

Lesson 09: Introduction to Optimizer Statistics Concepts

- Introduction to Optimizer Statistics Concepts
- Column Statistics: Histograms

Lesson 10: Using Bind Variables

- Using Bind Variables
- Cursor Sharing Enhancements

Lesson 11: SQL Plan Management

- SQL Plan Management
- Configuring SQL Plan Management
- Possible SQL Plan Manageability Scenarios

END OF PAGE