

DENOMINACIÓN: Tuning para desarrolladores Oracle10g

OBJETIVOS: Describir los pasos básicos en el proceso de las sentencias SQL Describir las causas de los problemas más comunes Comprender cómo seguir la metodología del tuning Comprender el Automatic SQL Tuning Recopilación de información sobre las sentencias SQL El Optimizador, su influencia en el comportamiento de las sentencias. Cómo afecta el modelo de datos.

DIRIGIDO A: Desarrolladores Oracle

REQUISITOS: conocimientos sólidos de SQL

HORAS: 18 Horas

METODOLOGÍA: Presencial

COSTE: 2340 €

CONTENIDOS

Modulo 1. Following a Tuning Methodology

Describing the Causes of Performance Problems
Identifying Performance Problems
Using a Tuning Methodology
Listing the Steps to Tune SQL

Modulo 2. SQL Statement Processing

Describe the basic steps involved in processing a SQL statement
Monitor the use of shared SQL areas
Write SQL statements to take advantage of shared SQL areas
Understand how to use the CURSOR_SHARING parameter
Use automatic PGA memory management

Modulo 3. EXPLAIN and AUTOTRACE

Using the EXPLAIN PLAN Command
Identifying the AUTOTRACE Syntax
Interpreting EXPLAIN Output
Interpreting AUTOTRACE Statistics

Modulo 4. SQL Trace and TKPROF

Invoking the SQL Trace Facility
Setting Up Appropriate Initialization Parameters
Formatting Trace Files with TKPROF
Interpreting the Output of the TKPROF Command

Modulo 5. SQL Analyze

Using SQL Analyze for SQL Tuning

Modulo 6. Introduction to the Optimizer

Cost-Based Optimization
Optimizing for Fast Response
Choosing an Access Paths
Rule-Based Optimization

Modulo 7. Indexes and Basic Access Methods

Identifying Row Access Methods
Creating B*-Tree Indexes
Understanding B*-Tree Index Access and Index Merging

Modulo 8. Gathering Statistics

Using the DBMS_STATS Package
Identifying Table, Column, and Index Statistics
Building Histograms

Modulo 9. Influencing the Optimizer

Setting Up Appropriate Initialization Parameters
Using the ALTER SESSION Command
Using Hints

Modulo 10. Sorting and Joining

Sorting Guidelines

Using Top-N SQL

Nested Loops Joins Sort/Merge Joins

Outer Joins

Star Joins

Hash Joins

Modulo 11. Optimizer Plan Stability

Purpose and Benefits of Optimizer Plan Stability

Creating Stored Outlines

Outline: Administration and Security

Modulo 12. Advanced Indexes

Creating Bitmapped Indexes

Creating Function-Based Key Indexes

Optimizing Star Joins with Star Transformation

Modulo 13. Materialized Views and Temporary Tables

Using the CREATE MATERIALIZED VIEW Syntax

Utilizing Query Rewrites

Creating and Using Temporary Tables

Modulo 14. Alternative Storage Techniques

Creating Index-Organized Tables

Creating External Tables

DATOS DEL PROVEEDOR

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