



Oracle SQL Performance Tuning Tips & Techniques 1-Day Workshop

Give your technical staff that competitive edge with this local Oracle Workshop.

The focus of this tuning course is to illustrate coding techniques that insure a consistent response time between instances and releases of the Oracle database. This course works closely with performance tuning of actual SQL statements as well as covering a variety of Oracle Server tuning topics.

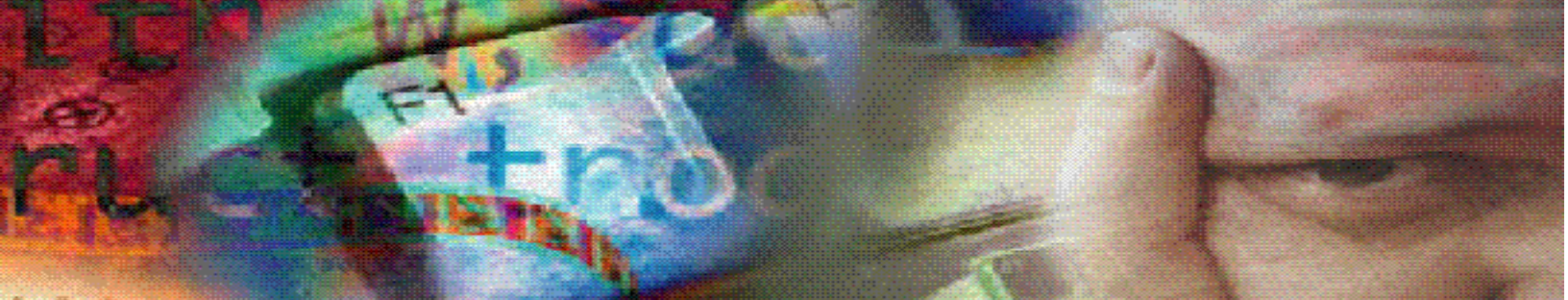
The course starts out with a complete overview of the Oracle architecture so students can get an understanding how their SQL and applications can take advantage of the computing environment. This course includes a discussion on the differences of the various Explain Plan steps such as Merge-Join and Nested-Loop, and when is it best to use each. Dan goes into considerable detail, with SQL examples, on how the optimizers (both rule and cost) make their decisions. Students will work with a variety of SQL statements, reviewing explain plans and making changes to make these SQL statements perform better. The students will also learn how to use the Oracle Trace Facility as well as other Oracle tuning tools.

This course is the first day of a 3-day Performance and Tuning course. The 2nd and 3rd days covers an in-depth look at indexes and how they are selected/used by Oracle. The focus of the remainder of the course is tuning SQL via coding style. The instructor finds that tuning in this fashion maintains the performance of the SQL when migrating to other Oracle environments (upgrades to newer releases). Students will also experience how to monitor their application environment, their indexes, and see how to find problem SQL in their applications using Stats Pack and the V\$ dictionary tables.

This course is packed full of scripts to discover a variety of issues.

This course is perfect for developers who need to know more on how Oracle works and how to get their SQL to perform better. This course is also good for those who are light on SQL tuning or perhaps are new to the Oracle RDBMS.

The course utilizes a variety of current tools. Students will have the opportunity to learn more about TOAD, SQL Developer, TextPAD, as well as the Oracle tools like SQL*Plus, TKProf, and Stats Pack.

**Workshop Prerequisites:**

A working knowledge of the SQL language. Knowledge of SQL Explain Plans is helpful but not necessary.

Topics covered:

- How Oracle arrives at an Execution Plan
- In-depth look at the Oracle Optimizers
- In-depth look at Explain Plans
- PL/SQL Tuning/Profiling
- SQL Trace Facility

Lectures and topics are enhanced with live illustrations and hands-on exercises

Attendees Receive:

- Study guide with presentations and relevant white papers
- Book: Oracle SQL Tuning Pocket Reference by Mark Gurry
- Diskette full of tuning and problem discovery scripts
- Opportunity to ask the tough Oracle questions
- A hands-on opportunity to learn more about Oracle, SQL Developer, and TOAD

Course Outline:

- Day 1: SQL Statement Tuning
 - Oracle RDBMS Architecture overview
 - Understanding/Reading/Interpreting Explain Plans
 - Understanding the Rule-based Optimizer
 - Understanding the Cost-based Optimizer
 - Working with Hints
 - Tuning Tool Review: SQL Tracing/Tkprof
 - Profiling and tuning PL/SQL

About Dan Hotka:

Dan Hotka is a Training Specialist who has over 31 years in the computer industry and over 26 years of experience with Oracle products. He is an internationally recognized Oracle expert with Oracle experience dating back to the Oracle V4.0 days. Dan's latest book is the TOAD Handbook by Pearson. He is also the author of SQL Developer Handbook by Oracle Press, SQL Developer Handbook by Oracle Press, Oracle9i Development By Example, and Oracle8i from Scratch by Que and has co-authored 7 other popular books including the Database Oracle10g Linux Administration by Oracle Press. He is frequently published in Oracle trade journals, and regularly speaks at Oracle conferences and user groups around the world. Visit his website at www.DanHotka.com. Dan can be reached at dhotka@earthlink.net .

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