



# Oracle SQL Tuning Statement Tuning Tips & Techniques 2-Day Workshop

Give your technical staff that competitive edge with this local Oracle Workshop. This course focuses on tuning SQL statements. 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. Students will also experience how to monitor their application environment, their indexes, and see how to find problem SQL in their applications.

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 the Golden tool set. Students will have the opportunity to learn more about Golden during the course of study. Knowledge of Golden is not a requirement of this workshop.

## **Prerequisites:**

- A working knowledge of SQL is all that is required.

## **Topics covered:**

- SQL Tuning Statement Topics
- Explain Plans
- Controlling both the Cost and Rule-based Optimizers
- SQL Hints
- SQL Troubleshooting/problem solving

## **Attendees Receive:**

- Study guide with presentations and relevant white papers
- Book: Oracle SQL Tuning
- Diskette full of tuning and problem discovery scripts
- A hands-on opportunity to learn more about Oracle and Golden

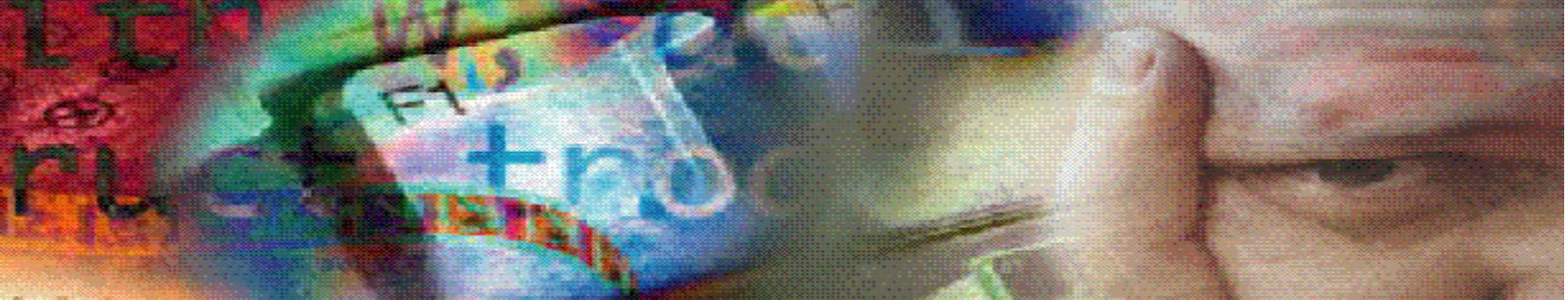


## Course Outline:

- Day 1: SQL Statement Tuning
  - Oracle RDBMS Architecture overview
  - Understanding/Reading/Interpreting Explain Plans
  - Index Review/Tips & Techniques
  - Understanding the Rule-based Optimizer
  - Understanding the Cost-based Optimizer
  
- Day 2: SQL Troubleshooting Tips and Techniques
  - A close look at sub-query techniques
  - Finding Problem SQL using v\$sql information
  - Troubleshooting SQL
  - Open problem-solving forum

### About Dan Hotka:

Dan Hotka is a Training Specialist who has over 25 years in the computer industry and over 20 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 (co-author) is the Oracle10g on Linux by Oracle Press. He is the author of Oracle Utilities Pocket Reference by O'Reilly, Oracle9i Development By Example and Oracle8i from Scratch by Que and has co-authored 6 other popular books. 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](http://www.DanHotka.com). Dan can be reached at [dhotka@earthlink.net](mailto:dhotka@earthlink.net).



**Reference from one client to a prospective client (Fall 2003):**

*As Coordinator of Human Resources Development, I oversee training and development for all of our employees (approximately 1400 employees).*

*In May of this year, I hired Dan Hotka as an independent contractor to train 36 of our programmers on our campus. Dan worked with one of our IT managers and myself to customize a SQL Tuning and Troubleshooting program that would meet our specific training needs.*

*The resulting program exceeded our expectations, and our employees came out of the training with skills that they were able to immediately apply to their jobs.*

*From my perspective, one of Dan's greatest strengths as a trainer is that he has real world experience using the software. He's not just a trainer who has learned the software and teaches a class. When I contract with a trainer, I expect him to be able to answer specific questions that our employees have about the work they are doing. Dan was able to take on that consulting role and apply the software to the work we are doing here.*

*We have recently approved our development plans for FY04, and I am certain that we will be working with Dan to develop training programs again this year. I would most definitely recommend Dan Hotka to our best clients because of the real world experience he brings to the classroom and his willingness to meet our specific training needs.*

*Regards,*

*(name and company withheld by request)  
Coordinator Human Resources Development  
not-for-profit organization  
Iowa City, IA*