



Expert Oracle SQL: Optimization, Deployment, and Statistics

By Tony Hasler

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Expert Oracle SQL: Optimization, Deployment, and Statistics is about optimizing individual SQL statements, especially on production database systems. This Oracle-specific book begins by assuming you have already identified a particular SQL statement and are considering taking steps to improve its performance. The book describes a systematic process by which to diagnose a problem statement, identify a fix, and to implement that fix safely in a production system. You'll learn not only to improve performance when it is too slow, but also to stabilize performance when it is too variable. You'll learn about system statistics and how the Cost-Based Optimizer uses them to determine a suitable execution plan for a given statement. That knowledge provides the foundation from which to identify the root cause, and to stabilize and improve performance.

Next after identifying a problem and the underlying root cause is to put in place a solution. *Expert Oracle SQL: Optimization, Deployment, and Statistics* explains how to apply various remedies such as changing the SQL statement, adding hints, changing the physical design, and more, and how they can be brought to bear on fixing a problem once and for all.

Rolling a change out smoothly is an important topic when dealing with tuning and optimization. *Expert Oracle SQL: Optimization, Deployment, and Statistics* does not let you down in this critical area. The book contains two chapters of good information from an experienced professional on how to safely deploy changes into production so that your systems remaining running and available throughout the deployment process.

- Describes a systematic approach to tuning Oracle SQL
- Explains how things are supposed to work, what can go wrong, and how to fix it
- Takes you through the steps needed to stabilize performance in your production systems

What you'll learn

- Determine the root cause of poor performance in a SQL statement
- Decipher each line of an execution plan and how it relates to its source SQL statement
- Know the various options and transformations available for the Cost-Based Optimizer
- Interpret the diagnostic data from Active Session History, SQL Performance Monitor, and from other sources
- Apply optimizer hints, SQL profiles, and SQL baselines when they are best used, and avoid them otherwise
- Manage object statistics used by the optimizer to ensure efficient execution plans

Who this book is for

Expert Oracle SQL: Optimization, Deployment, and Statistics is aimed at Oracle Database administrators who are interested in performance troubleshooting. The book is also of interest to people in development roles who wish to be knowledgeable in the underlying technologies on which their applications run.

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Editorial Review

About the Author

Tony Hasler spends most workdays tuning database queries for financial institutions in the City of London from his office in Fife, occasionally looking over the Firth of Forth towards Edinburgh castle. Tony spent the first half of his 30 years in IT developing software, during some of which time he worked with the International Standards Organisation (ISO) on interoperability standards in transaction processing. He also filed a patent on optimisations in two-phase-commit logging mechanisms. For most of the last 15 years Tony has been solving performance issues for major financial institutions throughout Europe. He is a regular speaker at UK Oracle User Group conferences.

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