7

The Basics of SQL Query Code Tuning

The chapter begins Part II of this book, which focuses on aspects of Oracle SQL code provided specifically for tuning of data-warehouse type functionality. In order to introduce aspects of tuning SQL code for data warehouses, it is necessary to go back to basics. This chapter will provide three things: (1) details of the most simplistic aspects of SQL code tuning, (2) a description of how the Oracle SQL engine executes SQL code internally, and (3) a brief look at tools for tuning Oracle Database. It is essential to understand the basic facts about how to write properly performing SQL code and perform basic tuning using Oracle internals and simple tools. Subsequent chapters will progress to considering specific details of tuning SQL coding for data warehouses.

Perhaps one of the most important rules of thumb for coding well performing SQL code statements—and particularly queries, those most subject to tuning—is what is commonly known as the *KISS* rule: *Keep It Simple, Stupid!* The simpler your SQL statements are, the faster they will be. There are two reasons for this. First, simple SQL statements are much more easily tuned by a programmer; second, the optimizer will function a lot better when assessing less complex SQL code. The negative effect of this is granularity, but this negative effect depends on how applications are coded. For instance, connecting to and disconnecting from a database for every SQL code statement is extremely inefficient.

7.1   Basic Query Tuning

This section examines the following topic areas:

- SELECT clause columns
- WHERE clause filtering

Manual Sql Tuning In Oracle 10g

Norbert Debes

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through choosing tuning tools and introduces upfront design techniques that lead to higher performance applications He also presents a collection of downloadable scripts for reporting on all aspects of database performance Coverage includes Tuning by layers the most effective highest value approach to Oracle performance optimization Making the most of Oracle s core tools for tracing monitoring and diagnosing performance Highly efficient database logical and physical design indexing transaction design and API use SQL and PL SQL tuning including the use of parallel SQL techniques Minimizing contention for locks latches shared memory and other database resources Optimizing memory and physical disk IO Tuning Real Application Cluster RAC databases guyharrison net informit com ph **Oracle Tuning Power Scripts** Harry Conway,Michael R. Ault,Donald Burleson,2005 Targeted at Oracle professionals who need fast and accurate working examples of complex issues Oracle In focus books target specific areas of Oracle technology in a concise manner Plenty of working code is provided without a lot of theory allowing database managers to solve their problems quickly without reviewing data that they already know All code scripts are available for instant download from a companion web site *Oracle SQL Tuning & CBO Internals* Kimberly Floss,2004-04-28 As Oracle professionals are challenged to create SQL statements that will support thousands of concurrent executions with sub second response time this book s timing is critical as tuning Oracle SQL has become the single most important skill of the Oracle professional While not appropriate for the beginner this book allows senior Oracle professionals to explore important internal mechanisms within Oracle and the powerful and complex internals of Oracle SQL execution Topics include the internals of Oracle cost based SQL optimizer SQL execution internals within the library cache Oracle SQL coding and optimization techniques and Oracle index internals Also included is a ready to use code depot full of working SQL tuning scripts which allow for quick optimization of the SQL and indexes inside the Oracle database **DBA Study Guide - OCP Prep Guide** Abdul,2006 **OCP: Oracle Database 12c Administrator Certified Professional Study Guide** Robert G. Freeman,Charles A. Pack,2014-08-08 An updated guide for an updated certification exam As the most popular database software in the world Oracle Database 12c has been updated for the first time in nearly six years and the changes are significant This study guide reviews how Oracle 12c allows multiple instances to be used simultaneously via the cloud You ll sharpen your skills to prepare for the three levels of certification Oracle Certified Associate Oracle Certified Professional and Oracle Certified Master Workbook exercise appendix test engine chapter review questions electronic flashcards searchable PDF glossary and two bonus practice exams all help to enhance your preparation to take the Oracle 12c exam Addresses such topics as database architecture configuring and recoverability configuring backup specifications and performing user managed backup and recovery Reviews how to use RMAN to create backups perform recovery and duplicate a database Looks at performing tablespace point in time recovery and using flashback technology Covers diagnosing the database managing memory managing resources and automating tasks Focusing 100 percent on the exam objectives OCP Oracle Database 12c Administrator Certified Professional Study Guide is designed for

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Tow,2003-11-19 A poorly performing database application not only costs users time but also has an impact on other applications running on the same computer or the same network SQL Tuning provides an essential next step for SQL developers and database administrators who want to extend their SQL tuning expertise and get the most from their database applications There are two basic issues to focus on when tuning SQL how to find and interpret the execution plan of an SQL statement and how to change SQL to get a specific alternate execution plan SQL Tuning provides answers to these questions and addresses a third issue that s even more important how to find the optimal execution plan for the query to use Author Dan Tow outlines a timesaving method he s developed for finding the optimum execution plan rapidly and systematically regardless of the complexity of the SQL or the database platform being used You ll learn how to understand and control SQL execution plans and how to diagram SQL queries to deduce the best execution plan for a query Key chapters in the book include exercises to reinforce the concepts you ve learned SQL Tuning concludes by addressing special concerns and unique solutions to unsolvable problems Whether you are a programmer who develops SQL based applications or a database administrator or other who troubleshoots poorly tuned applications SQL Tuning will arm you with a reliable and deterministic method for tuning your SQL queries to gain optimal performance **Oracle Applications DBA Field Guide** Paul Jackson,Elke Phelps,2006-11-22 Oracle Applications DBA Field Guide provides scripts notes guidelines and references to guide you safely through the crucial day to day administration tasks that fall within your jurisdiction This includes configuring monitoring performance tuning troubleshooting and patching This book contains tips techniques and guidance for administering the highly complex Oracle E Business Suite running Oracle9i or Oracle10g on UNIX or Linux servers all in an easy to read and quick to navigate format Even for the experienced database administrator Oracle applications are complicated to administer and most other documentation out there is difficult to find and understand Whether you re an experienced Oracle database admininstrator or a relative newcomer to Oracle 11i Applications perhaps migrating from PeopleSoft JD Edwards or Siebel this book will enable you to make a real impact on the ease and efficiency of your day to day administrative tasks and is relevant for Oracle releases 12 and Fusion **Oracle Wait Interface: A Practical Guide to Performance Diagnostics & Tuning** Richmond Shee,Kirtikumar Deshpande,K. Gopalakrishnan,2004-07-16 Troubleshoot tune and optimize your Oracle database efficiently and successfully every time This book explains how to take full advantage of the revolutionary Oracle Wait Interface to quickly pinpoint and solve core problems and bottlenecks and increase productivity exponentially **Proceedings 2004 VLDB Conference** VLDB,2004-10-08 Proceedings of the 30th Annual International Conference on Very Large Data Bases held in Toronto Canada on August 31 September 3 2004 Organized by the VLDB Endowment VLDB is the premier international conference on database technology Oracle 10g Grid and Real Application Clusters Mike Ault,Madhu Tumma,Ranko Mosic,2004-08 Revealing the secrets for quickly implementing and tuning Oracle RAC database systems this book covers all areas of Oracle Real Application Clusters including Oracle10g new

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