



Optimizing Oracle Performance

Karin Nielsen-Saines

Optimizing Oracle Performance:

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databases guides you 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 comph

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effort towards improving response time But it is entirely too easy to spend hundreds of hours to improve important system metrics such as hit ratios average latencies and wait times only to find users are unable to perceive the difference And an expensive hardware upgrade may not help either It doesn't have to be that way Technological advances have added impact efficiency measurability predictive capacity reliability speed and practicality to the science of Oracle performance optimization Optimizing Oracle Performance shows you how to slash the frustration and expense associated with unraveling the true root cause of any type of performance problem and reliably predict future performance. The price of this essential book will be paid back in hours saved the first time its methods are used **Oracle and UNIX Performance Tuning** Ahmed Alomari, 1997 Alomari makes in depth recommendations for tuning both decision support and transaction applications each of which impact the Oracle kernel in significantly different ways No other tuning book covers specific OLAP and OLTP issues in comparable detail Oracle SQL Performance Tuning and Optimization Kevin Meade, 2014-09-16 Written by a Senior Database Administrator who has worked with the Oracle RDBMS for thirty years this is a book which teaches the skill of SQL Tuning for the Oracle Database Not a list of one off tricks or tips nor a glossing over of topics this book offers an in depth process covering discovery analysis and problem resolution Learn the science behind SQL Tuning Learn and apply the FILTERED ROWS PERCENTAGE Cardinality based method of tuning Determine a guery's Driving Table and Join Order Construct Query Diagrams Data Models and Join Trees Build and use Count Filter and Reconstruction Queries Identify Waste in a Query Execution Plan Zero in on Cardinality Divergence using Estimated vs Actuals Use the ACCESS FILTER COVERAGE strategy to build indexes for Problem Queries Exploit THE 2% RULE in analyzing Access method and Join method Classify queries as Precision Style or Warehouse Style Understand Hash Join mechanics and make Hash Joins go faster Make HINTS work as Detection Tools rather than clubs Avoid early Database Design flaws Manage Statistics and deal with common Statistics problems NDV Uniform Distribution Independence Dynamic Sampling Staleness Skew Dependence Defaulting Out Of Bounds Transiency Bloat Perfect your Question Based Analyis Technique and more Included are a special chapter for EXADATA a LAB which demonstrates the cardinality based process of SQL Tuning and twenty three magical SQL scripts that make the process of SQL Tuning easy to do Learn the skill of SQL Tuning as taught by an expert who does it for a living and become the go to specialist in your company Chapter 1 DRIVING TABLE and JOIN ORDER Chapter 2 Ways to Use a Query Execution Plan Chapter 3 The Best Indexes for a Query Chapter 4 JOINS Chapter 5 HINTS Chapter 6 BASICS Chapter 7 ROW COUNTS and RUN TIMES Chapter 8 EXADATA LAB Reverse Engineering the QEP Appendix Know Your Scripts Scripts for analyzing queries and plans Scripts for examining an active database Scripts for looking at metadata showplan showplanshort showplanconstraints showplancountqueries showplandatamodel showplandrivingtable showplanfilterqueries showplanfrpspreadsheetcode showplanindexes showplannumrows showplanquerydiagram showplantables showplantablesunique loadplanfromcache loadplanfromhist showtopcpu showowner showindexes

showconstraints showcolstats showhistograms showallscanrates showallworkareas It s all about the Cardinalities Database Performance Tuning and Optimization Sitansu S. Mittra, 2006-04-18 Scope The book provides comprehensive coverage of database performance tuning and opti zation using Oracle 8i as the RDBMS The chapters contain both theoretical discussions dealing with principles and methodology as well as actual SQL scripts to implement the methodology The book combines theory with practice so as to make it useful for DBAs and developers irrespective of whether they use Oracle 8i Readers who do not use Oracle 8i can implement the principles via scripts of their own written for the particular RDBMS they use I have tested each script for accuracy and have included the sample outputs generated from them An operational database has three levels conceptual internal and external The c ceptual level results from data modeling and logical database design When it is imp mented via an RDBMS such as Oracle it is mapped onto the internal level Database jects of the conceptual level are associated with their physical counterparts in the internal level An external level results from a query against the database and as such provides a window to the database There are many external levels for a single **Oracle Performance Tuning** Mark Gurry, Peter Corrigan, 1996-11 A complete revision of the original conceptual level title this second edition adds new material on Oracle 7 3 and many Oracle 8 features It explores new Oracle capabilities like parallel server parallel guery and distributed database It contains more detail on constraints and triggers many more examples and information on new tuning tools like the Oracle Performance Pack Oracle Trace and Oracle Expert **Oracle** PL/SQL Performance Tuning Tips & Techniques Michael Rosenblum, Paul Dorsey, 2014-08-29 Proven PL SQL Optimization Solutions In Oracle PL SQL Performance Tuning Tips Techniques Oracle ACE authors with decades of experience building complex production systems for government industry and educational organizations present a hands on approach to enabling optimal results from PL SQL The book begins by describing the discovery process required to pinpoint performance problems and then provides measurable and repeatable test cases In depth coverage of linking SQL and PL SQL is followed by deep dives into essential Oracle Database performance tuning tools Real world examples and best practices are included throughout this Oracle Press guide Follow a request driven nine step process to identify and address performance problems in web applications Use performance related database tools including data dictionary views logging tracing PL SQL Hierarchical Profiler PL Scope and RUNSTATS Instrument code to pinpoint performance issues using call stack APIs error stack APIs and timing markers Embed PL SQL in SQL and manage user defined functions Embed SQL in PL SQL using a set based approach to handle large volumes of data Properly write and deploy data manipulation language triggers to avoid performance problems Work with advanced datatypes including LOBs and XML Use caching techniques to avoid redundant operations Effectively use dynamic SQL to reduce the amount of code needed and streamline system management Manage version control and ensure that performance fixes are successfully deployed Code examples in the book are available for download Oracle SQL High-performance Tuning Guy Harrison, Raymond Aron, 2001 Canada was

young during the First World War and with as many as 20 000 underage soldiers leaving their homes to join the war effort the country's army was too Jim at 17 was one of them and he penned countless letters home But these weren t the writings of an ordinary boy They were the letters of a lad who left a small farming community for the city on July 15 1915 a boy who volunteered to serve with the 79th Queen's Own Cameron Highlanders Jim's letters home gloss over the horrors of war focusing instead on issues of the home front of harvesting training the horses and the price of hogs Rarely do these letters especially those to his mother and father mention the mud and rats the lice and stench of the trenches or the night duty of cutting barbed wire in no man's land For 95 years his letters remained in a shoebox decorated by his mother Jim was just 18 when he was wounded and died during the Battle of the Somme Hold the Oxo tells the story that lies between the lines of his letters filling in the historical context and helping us to understand what it was like to be Jim The Art and Science of Oracle Performance Tuning Christopher Lawson, 2003-07 Presents an innovative philosophical approach to Oracle database administration and shows how to think about the whole complex problem of performance tuning how to break it down how to root out the cause of performance bottlenecks Covers all practical aspects of Oracle performance tuning Filled with hands on lessons and accounts Teaches an innovative and effective Physician to Magician approach showing how to understand the problem uncover the root cause and choose and implement the most effective solution **Oracle Performance Tuning for** 10gR2 Gavin JT Powell, 2011-04-08 Tuning of SQL code is generally cheaper than changing the data model Physical and configuration tuning involves a search for bottlenecks that often points to SQL code or data model issues Building an appropriate data model and writing properly performing SQL code can give 100% performance improvement Physical and configuration tuning often gives at most a 25% performance increase Gavin Powell shows that the central theme of Oracle 10 qR2 Performance Tuning is four fold denormalize data models to fit applications tune SQL code according to both the data model and the application in relation to scalability create a well proportioned physical architecture at the time of initial Oracle installation and most important mix skill sets to obtain the best results Fully updated for version 10gR2 and provides all necessary transition material from version 9i Includes all three aspects of Oracle database tuning data model tuning SQL PL SQL code tuning physical plus configuration tuning Contains experienced guidance and real world examples using large datasets Emphasizes development as opposed to operating system perspective Oracle Performance Tuning 101 Gaja Krishna Vaidyanatha, Kirtikumar Deshpande, John Kostelac, 2001 Tuning Oracle databases or Oracle Performance Management OPM is what database administrators DBAs do to help the database run optimally With the increase in e commerce and deployment of databases and applications on the Internet the task of keeping databases running is becoming increasingly important This entry level study teaches the essentials of keeping databases running at top performance The guide covers releases 7 3 through 8i for NT Linux and Unix platforms Oracle Performance Tuning Tips & Techniques Richard J. Niemiec, 1999-01-01 Tuning skills are in high demand in Oracle communication and this guide gives specific

examples to build performance tuning skill sets Database administrators will find helpful hints and useful information to help them get optimal performance from Oracle RDBMS environments **Optimizing Oracle Database Performance on a** Oracle Wait Interface: A Practical Guide to Performance Diagnostics & Tuning Richmond Unix Server John McAvov, 2000 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 Harrison, 2009 Oracle Performance Survival Guide A Systematic Approach to Database Optimization The fast complete start to finish guide to optimizing Oracle performance Oracle Performance Survival Guide offers a structured systematic start to finish methodology for optimizing Oracle performance as efficiently as possible Leading Oracle expert Guy Harrison shows how to maximize your tuning investment by focusing on causes rather than symptoms and by guickly identifying the areas that deliver the greatest bang for the buck Writing for DBAs and developers with all levels of experience Harrison covers every area of Oracle performance management from application design through SQL tuning contention management through memory and physical IO management He also presents up to the minute guidance for optimizing the performance of the Oracle 11g Release 2 You ll start by mastering Oracle structured performance tuning principles and tools including techniques for tracing and monitoring Oracle execution Harrison illuminates the interaction between applications and databases guides you 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 Database Performance and Scalability Henry H. Liu, 2011-10-24 The innovative performance and scalability features with each newer edition of the Oracle database system can present challenges for users This book teaches software developers and students how to effectively deal with Oracle performance and scalability issues throughout the entire life cycle of developing Oracle based applications Using real world case studies to deliver key theories and concepts the book introduces highly dependable and ready to apply performance and scalability optimization techniques augmented with Top 10 Oracle Performance and Scalability Features as well as a supplementary support website **Database Performance Tuning and Optimization** Sitansu S. Mittra, 2003 Oracle Database 12c Performance Tuning Recipes Sam Alapati, Darl Kuhn, Bill Padfield, 2014-01-21 Performance problems are rarely problems per se They are more often crises during which you re

pressured for results by a manager standing outside your cubicle while your phone rings with queries from the help desk You won t have the time for a leisurely perusal of the manuals nor to lean back and read a book on theory What you need in that situation is a book of solutions and solutions are precisely what Oracle Database 12c Performance Tuning Recipes delivers Oracle Database 12c Performance Tuning Recipes is a ready reference for database administrators in need of immediate help with performance issues relating to Oracle Database The book takes an example based approach wherein each chapter covers a specific problem domain Within each chapter are recipes showing by example how to perform common tasks in that chapter s domain Solutions in the recipes are backed by clear explanations of background and theory from the author team Whatever the task if it s performance related you ll probably find a recipe and a solution in this book Provides proven solutions to real life Oracle performance problems Offers relevant background and theory to support each solution Gets straight to the point for when you re under pressure for results

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