

Sm Oracle 10g Sql Tuning

Reviewing **Sm Oracle 10g Sql Tuning**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Sm Oracle 10g Sql Tuning**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

Database Performance Tuning and Optimization Sitansu S. Mittra 2006-04-18 Presents an ideal mix of theory and practice, which allows the reader to understand the principle behind the application.; Coverage of performance tuning of datawarehouses offers readers the principles and tools they need to handle large reporting databases.; Material can also be used in a non-Oracle environment; Highly experienced author.

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Oracle Database 11g Performance Tuning Recipes Sam Alapati 2011-10-18 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 11g Performance Tuning Recipes delivers. Oracle Database 11g 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 Written by a team of experienced database administrators successful in their careers
Oracle Database XE 11gR2 Jump Start Guide Asif Momen 2012-07-10 Build and manage your Oracle Database XE environment with this fast paced, practical guide

Oracle PL/SQL Performance Tuning Tips & Techniques Michael Rosenblum 2014-08-13 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 Tuning Donald K. Burleson 2010 For Oracle tuning professionals wishing to add more tools to their Oracle tuning toolbox, this guidebook introduces the various tuning analytical tools and helpful strategies to make the database easier to use. Details describe how to extract information from the database and use it to determine and increase efficiency. It also provides specific steps with detailed information on how to congeal large amounts of database performance information into

one pool from which the DBA can carefully choose tuning options based on what is predicted, all to give them the biggest improvement in performance for the least time and money investment. Sample code, sample code results, and guidelines on how to interpret the results help users manipulate code in an effective way. With countless hints, tips, and tools, the guide fully explains how to work with the Oracle system in order to achieve database performance excellence.

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.

Pro Oracle SQL Karen Morton 2013-11-26 Pro Oracle SQL, Second Edition unlocks the power of SQL in the Oracle database—one of the most potent SQL implementations on the market today. To master it requires a multi-pronged approach: learn the language features, learn how and why the language features work, learn the supporting features that Oracle provides to help use the language effectively, and learn to think and work in sets. Karen Morton has updated the content for Oracle version 12c and helps you master powerful aspects of Oracle SQL from the inside-out. You'll learn analytic functions, the MODEL clause, and advanced grouping syntax—features that will help in creating good queries for reporting and business intelligence applications. Pro Oracle SQL, Second Edition also helps you minimize parsing overhead, read execution plans, test for correct results, understand performance management, and exert control over SQL execution in your database. You'll learn when to create indexes, how to verify that they make a difference, how to use SQL Baselines and Profiles to optimize and stabilize SQL execution plans, and much more. You'll also understand how SQL is optimized for working in sets, and that the key to getting accurate results lies in making sure that queries ask clear and precise questions. Pro Oracle SQL, Second Edition helps you work at a truly professional level in the Oracle dialect of SQL. You'll master the language, the tools to work effectively with the language, and the right way to think about a problem in SQL. Endorsed by the OakTable Network, a group of Oracle technologists well-known for their rigorous and scientific approach to Oracle Database performance Comprehensive—goes beyond the language with a focus on what you need to know to write successful queries and data manipulation statements. Performance focused—teaches you how to measure the performance of your SQL statements and not just the syntax.

Oracle High-Performance SQL Tuning Donald K. Burleson 2001-08-17 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. From the official Oracle Press comes a comprehensive guide to tuning SQL statements for optimal execution This expert resource explains how to view the internal execution plan of any SQL statement and change it to improve the performance of the statement. You'll get details on Oracle's optimizer modes, SQL extensions, the STATSPACK utility, and a wealth of methods for tuning Oracle SQL statements.

Oracle Database 10g Sideris Courseware Corporation 2007

Oracle Database 11g R2 Sideris Courseware Corp 2011 This Oracle 11g learning guide will equip database administrators and application developers to build efficient SQL statements and to tune database

applications. When this effort is complemented by database server and PL/SQL application tuning, then a highly efficient application execution environment is created. One will learn about the internals of SQL statement execution, how to monitor the performance of such execution, and how one can influence the behavior of the database to achieve performance gains. This textbook is a mandatory reference for any database administrator or SQL database application developer. The following specific topics are among those considered: - Consider the unique and differing tuning issues found in online database applications, enterprise resource and data warehouse environments and the important metrics of SQL statement performance; - Learn about the internal mechanisms use for SQL statement execution within a database instance and how these can affect performance for good or bad, including the Optimizer facilities known as the Transformation Engine, Estimator and Plan Generator; - Use a variety of techniques to examine the details of SQL statement execution, spotting trouble areas and bottlenecks which require tuning; - Learn about the Auto-Task framework and how to manage the automatic collection of Optimizer statistics and automatic SQL tuning using both the programmatic and Enterprise Manager interfaces; - Learn how statistic deficiencies can dramatically degrade performance, and how these problems are resolved through customized Optimizer statistics collection procedures using the DBMS_STATS() package, system statistics, histograms, expression statistics and MultiColumn statistics; - Influence the behavior of the Optimizer by setting database parameters and other SQL tuning techniques; - Utilize the database advisory framework and the SQL Tuning and SQL Access advisors;- Use plan management to achieve plan stability which is adaptive and even dynamic; - Understand the self-tuning infrastructure and the automatic SQL tuning capabilities found within the database; - Employ SQL hints embedded into the statement text to resolve unique tuning challenges; - Learn to identify poorly performing SQL statements using real-time SQL monitoring and application tracing techniques such as DBMS_MONITOR(), trcsess and tkprof.

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 query'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 Analysis 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
Oracle Data Warehouse Tuning for 10g Gavin JT Powell 2011-04-08 "This book should satisfy those who want a different perspective than the official Oracle documentation. It will cover all important aspects of a data warehouse while giving the necessary examples to make the

reading a lively experience. - Tim Donar, Author and Systems Architect for Enterprise Data Warehouses Tuning a data warehouse database focuses on large transactions, mostly requiring what is known as throughput. Throughput is the passing of large amounts of information through a server, network and Internet environment, backwards and forwards, constantly! The ultimate objective of a data warehouse is the production of meaningful and useful reporting, from historical and archived data. The trick is to make the reports print within an acceptable time frame. A data model contains tables and relationships between tables. Tuning a data model involves Normalization and Denormalization. Different approaches are required depending on the application, such as OLTP or a Data Warehouse. Inappropriate database design can make SQL code impossible to tune. Poor data modeling can have a most profound effect on database performance since all SQL code is constructed from the data model. * Takes users beyond basics to critical issues in running most efficient data warehouse applications * Illustrates how to keep data going in and out in the most productive way possible * Focus is placed on Data Warehouse performance tuning

Oracle Database 10g Performance Tuning Tips & Techniques

Richard Niemiec 2007-06-25 "Offers hundreds of hints, tips, and tricks of the trade that can be useful to any DBA wanting to achieve maximum performance of Oracle applications. No Oracle library would be complete without this book." --Ken (Dr. DBA) Jacobs, Vice President of Product Strategy for Server Technologies, Oracle Corporation "Rich is the first and last stop for Oracle Database technology and performance tuning. His knowledge is a vital tool that you need to successfully negotiate the waters of Oracle database development." --Mike Frey, Principal Architect, Navteq

Oracle Database 11g Release 2 Performance Tuning Tips & Techniques

Richard Niemiec 2012-03-19 "Best practices for optimizing database performance"--Cover.

Oracle PL/SQL Tuning Timothy S. Hall 2006 Oracle experts know that PL/SQL tuning makes a huge difference in execution speed. As one of the world's most popular and respected experts, Dr. Tim Hall shares his secrets for tuning Oracle PL/SQL. This indispensable book shows how to hypercharge Oracle applications gaining as much as 30x improvement in execution speed using under-documented code tricks. Packed with working examples, learn how to re-write SQL into PL./SQL and how to use advanced Oracle bulk array processing techniques to achieve super high performance. You can save your company millions of dollars in hardware costs by making your applications run at peak efficiency. Targeted at the Senior Oracle DBA and developer, this advanced book illustrates powerful techniques that can make PL/SQL run faster than ever before. This book is not for beginners and should only be purchased by seasoned Oracle professionals who must turbocharge their applications. Your time savings from a single script is worth the price of this great book.

Expert Oracle RAC Performance Diagnostics and Tuning

Murali Vallath 2014-10-13 Expert Oracle RAC Performance Diagnostics and Tuning provides comprehensive coverage of the features, technology and principles for testing and tuning RAC databases. The book takes a deep look at optimizing RAC databases by following a methodical approach based on scientific analysis rather than using a speculative approach, twisting and turning knobs and gambling on the system. The book starts with the basic concepts of tuning methodology, capacity planning, and architecture. Author Murali Vallath then dissects the various tiers of the testing implementation, including the operating system, the network, the application, the storage, the instance, the database, and the grid infrastructure. He also introduces tools for performance optimization and thoroughly covers each aspect of the tuning process, using many real-world examples, analyses, and solutions from the field that provide you with a solid, practical, and replicable approach to tuning a RAC environment. The book concludes with troubleshooting guidance and quick reference of all the scripts used in the book. Expert Oracle RAC Performance Diagnostics and Tuning covers scenarios and details never discussed before in any other performance tuning books. If you have a RAC database, this book is a requirement. Get your copy today. Takes you through optimizing the various tiers of the RAC environment. Provides real life case studies, analysis and solutions from the field. Maps a methodical approach to testing, tuning and diagnosing the cluster

Oracle High Performance Tuning for 9i and 10g

Gavin JT Powell 2003-12-29 There are three parts to tuning an Oracle database: data modeling, SQL code tuning and physical database configuration. A data model contains tables and relationships between tables. Tuning a data

model involves normalization and de-normalization. Different approaches are required depending on the application, such as OLTP or a Data Warehouse. Inappropriate database design can make SQL code impossible to tune. Poor data modeling can have a most profound effect on database performance since all SQL code is constructed from the data model. Poorly written SQL code is often a culprit of performance problems and is expensive to rectify. However, tuning of SQL code is generally cheaper than changing the data model. SQL code tends to be contained inside independent blocks within applications or stored procedures. Physical database tuning involves hardware resource usage, networking and various other Oracle things such as configuration and file distribution. Physical configuration is often a culprit of poor performance where Oracle is installed with defaults, and never altered by an expert. *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 SQL Revealed Alex Reprintsev 2018-04-09 Write queries using little-known, but powerful, SQL features implemented in Oracle's database engine. You will be able to take advantage of Oracle's power in implementing business logic, thereby maximizing return from your company's investment in Oracle Database products. Important features and aspects of SQL covered in this book include the model clause, row pattern matching, analytic and aggregate functions, and recursive subquery factoring, just to name a few. The focus is on implementing business logic in pure SQL, with a comparison of different approaches that can be used to write SELECT statements to return results that drive good decision making and competitive action in the marketplace. This book covers features that are often not well known, and sometimes not implemented in competing products. Chapters on query transformation and logical execution order provide a grasp of the big picture in which the individual SQL features described in the other chapters are executed. Also included are a discussion on when to use the procedural capabilities from PL/SQL, and a series of examples showing different mixes of SQL features being applied in common types of queries that you are likely to encounter. What You Will Learn Gain competitive advantage from Oracle SQL Know when to step up to PL/SQL versus staying in SQL Become familiar with query transformations and join mechanics Apply the model clause and analytic functions to business intelligence queries Make use of features that are specific to Oracle Database, such as row pattern matching Understand the pros and cons of different SQL approaches to solving common query tasks Traverse hierarchies using CONNECT BY and recursive subquery factoring Who This Book Is For Database programmers with some Oracle Database experience. The book is also for SQL developers who are moving to the Oracle Database platform or want to learn unique features of its query engine. Both audiences will learn to apply the full power of Oracle's own SQL dialect to commonly encountered types of business questions and query challenges.

Sm Oracle 10g SQL Tuning 2005-09 This course will equip developers to build efficient SQL statements and to tune applications from the standpoint of an application developer. When this effort is complemented by database server and possibly PL/SQL application tuning, then a highly efficient environment has been built.

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 Oracle10gR2 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 SQL Tuning with Oracle SQLTXPLAIN Stelios Charalambides 2013-03-18 A practical guide showing you how to tune your SQL the way Oracle's own experts do it ... with a simple-to-use, free-download tool

called SQLTXPLAIN. You will be able to tune even the most complex SQL quickly without the huge learning curve usually associated with tuning as a whole.

Oracle Performance Troubleshooting Robin Schumacher 2003 A reference for any Oracle database administrators who must ensure the consistency of data across distributed platforms, this book is for those administrators who recognize the benefits of distributing Oracle data. The intricacies of Oracle multi-master replication are described, and working code examples of complex multi-master replication are provided. Also included is information on Oracle replication tuning and monitoring. **Optimizing Oracle Performance** Cary Millsap 2003-09-16 Oracle system performance inefficiencies often go undetected for months or even years--even under intense scrutiny--because traditional Oracle performance analysis methods and tools are fundamentally flawed. They're unreliable and inefficient. Oracle DBAs and developers are all too familiar with the outlay of time and resources, blown budgets, missed deadlines, and marginally effective performance fiddling that is commonplace with traditional methods of Oracle performance tuning. In this crucial book, Cary Millsap, former VP of Oracle's System Performance Group, clearly and concisely explains how to use Oracle's response time statistics to diagnose and repair performance problems. Cary also shows how "queueing theory" can be applied to response time statistics to predict the impact of upgrades and other system changes. **Optimizing Oracle Performance** eliminates the time-consuming, trial-and-error guesswork inherent in most conventional approaches to tuning. You can determine exactly where a system's performance problem is, and with equal importance, where it is not, in just a few minutes--even if the problem is several years old. **Optimizing Oracle Performance** cuts a path through the complexity of current tuning methods, and streamlines an approach that focuses on optimization techniques that any DBA can use quickly and successfully to make noticeable--even dramatic--improvements. For example, the one thing database users care most about is response time. Naturally, DBAs focus much of their time and 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 Performance Survival Guide Guy Harrison 2010 This complete guide to Oracle 11g Release 2 performance tuning shows how to tune performance efficiently by addressing causes rather than symptoms. It addresses all facets of performance, including application design, SQL tuning, contention management, memory physical IO, and more.

Advanced Oracle SQL Tuning Donald K. Burleson 2014-03 It's impossible to tune an Oracle database without understanding SQL tuning. Oracle is a SQL processing engine and the execution speed of any SQL query is influenced by many factors, both internal and external. As a declarative data access method, SQL relies on the Oracle cost-based optimizer to always choose the "best" execution plan for every SQL query. However, Oracle's SQL is among the most flexible and robust in the world, and along with this great power comes complexity. Tuning Oracle SQL is the single most important skill of any Oracle professional, and Oracle professionals are challenged to create SQL statements that will support thousands of concurrent executions with sub-second response time. "Advanced Oracle SQL Tuning" is a pragmatic treatment of Oracle SQL tuning, short on theory and big on real-world techniques and tips. This book is the culmination of the author's 25 years of full-time DBA experience and he shares expert tips and secrets for hyper charging SQL execution speed. This book covers advanced topics and it is not appropriate for beginners, dilettantes or neophytes.

Oracle Tuning Power Scripts Harry Conway 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 Database 12c Release 2 Performance Tuning Tips &

Techniques Richard Niemiec 2017-03-22 Proven Database Optimization Solutions—Fully Updated for Oracle Database 12c Release 2

Systematically identify and eliminate database performance problems with help from Oracle Certified Master Richard Niemiec. Filled with real-world case studies and best practices, Oracle Database 12c Release 2 Performance Tuning Tips and Techniques details the latest monitoring, troubleshooting, and optimization methods. Find out how to identify and fix bottlenecks on premises and in the cloud, configure storage devices, execute effective queries, and develop bug-free SQL and PL/SQL code. Testing, reporting, and security enhancements are also covered in this Oracle Press guide. • Properly index and partition Oracle Database 12c Release 2 • Work effectively with Oracle Cloud, Oracle Exadata, and Oracle Enterprise Manager • Efficiently manage disk drives, ASM, RAID arrays, and memory • Tune queries with Oracle SQL hints and the Trace utility • Troubleshoot databases using V\$ views and X\$ tables • Create your first cloud database service and prepare for hybrid cloud • Generate reports using Oracle's Statspack and Automatic Workload Repository tools • Use sar, vmstat, and iostat to monitor operating system statistics

Oracle Database 10g New Features Mike Ault 2003 For those database administrators intending to upgrade or those who need to know the new features that will affect the entire Oracle database world, this book relates all of the features of this new database. The complete details of the database's new features, including database management and administration enhancements, are discussed. Improvements and additions to security, architecture, Internet features, real application clusters, and performance are also detailed.

Oracle SQL Tuning Pocket Reference Mark Gurry 2002-01-01 One of the most important challenges faced by Oracle database administrators and Oracle developers is the need to tune SQL statements so that they execute efficiently. Poorly tuned SQL statements are one of the leading causes of substandard database performance and poor response time. SQL statements that perform poorly result in frustration for users, and can even prevent a company from serving its customers in a timely manner. In this book, Mark Gurry shares his in-depth knowledge of Oracle's SQL statement optimizers. Mark's knowledge is the result of many hard-fought tuning battles during his many years of providing Oracle tuning services to clients. Mark provides insights into the workings of the rule-based optimizer that go well beyond what the rules tell you. Mark also provides solutions to many common problems that occur with both the rule-based and cost-based optimizers. In addition to the specific problem/solution scenarios for the optimizers, Mark provides a number of handy SQL tuning tips. He discusses the various optimizer hints, telling you when they can be used to good effect. Finally, Mark discusses the use of the DBMS_STATS package to manage database statistics, and the use of outlines to specify execution plans for SQL statements in third-party applications that you can't otherwise modify.

Sm Oracle 10g PL/SQL Tuning 2005-07 The objective of this course is to allow experienced PL/SQL developers to write efficient programs. Advanced techniques which not only improve execution speed but also enhance the functionality of the programs are also discussed.

Oracle Performance Tuning Mark Gurry 1996-11 A complete revision of the original 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 query, 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.

SQL Tuning Dan 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.

Formal SQL Tuning for Oracle Databases Leonid Nossov 2016-09-16 The target of SQL tuning is the improvement of the existing execution plan. The authors discuss the removal of brakes in the execution plan. Such "brakes" or bottlenecks can be recognized by a formal analysis of the execution plan. For this purpose no data model knowledge is needed. This is especially beneficial for database administrators because they are usually not or insufficiently familiar with the data model. The book presents numerous practical examples with this method.

ORACLE 10g Performance Tuning Rajeev A. Parida 2009

Expert Indexing in Oracle Database 11g Darl Kuhn 2012-03-23 Expert Indexing in Oracle Database 11g is about the one database structure at the heart of almost all performance concerns: the index. Database system performance is one of the top concerns in information technology today. Administrators struggle to keep up with the explosion of access and activity driven by the proliferation of computing into everything from phones to tablets to PCs in our increasingly connected world. At the heart of any good-performing database lies a sound indexing strategy that makes appropriate use of indexing, and especially of the vendor-specific indexing features on offer. Few databases fully exploit the wealth of data access mechanisms provided by Oracle. Expert Indexing in Oracle Database 11g helps by bringing together information indexing and how to use it into one, convenient and blissfully short volume that you can read quickly and have at your fingertips for reference. Learn the different types of indices available and when each is best applied. Recognize when queries aren't using indices as you intend. Manage your indexing for maximum performance. Let Expert Indexing in Oracle Database 11g be your guide to deep mastery of the most fundamental performance optimization structure in Oracle Database. Explains how indices work, how they help, and how they hinder Demystifies the various index choices Describes the database administration chores associated with indices

Dynamic Oracle Performance Analytics Roger Cornejo 2018-12-06

Use an innovative approach that relies on big data and advanced analytical techniques to analyze and improve Oracle Database performance. The approach used in this book represents a step-change paradigm shift away from traditional methods. Instead of relying on a few hand-picked, favorite metrics, or wading through multiple specialized tables of information such as those found in an automatic workload repository (AWR) report, you will draw on all available data, applying big data methods and analytical techniques to help the performance tuner draw impactful, focused performance improvement conclusions. This book briefly reviews past and present practices, along with available tools, to help you recognize areas where improvements can be made. The book then guides you through a step-by-step method that can be used to take advantage of all available metrics to identify problem areas and work toward improving them. The method presented simplifies the tuning process and solves the problem of metric overload. You will learn how to: collect and normalize data, generate deltas that are useful in performing statistical analysis, create and use a taxonomy to enhance your understanding of problem performance areas in your database and its applications, and create a root cause analysis report that enables understanding of a specific performance problem and its likely solutions. What You'll Learn Collect and prepare metrics for analysis from a wide array of sources Apply statistical techniques to select relevant metrics Create a taxonomy to provide additional insight into problem areas Provide a metrics-based root cause analysis regarding the performance issue Generate an actionable tuning plan prioritized according to problem areas Monitor performance using database-specific normal ranges Who This Book Is For Professional tuners: responsible for maintaining the efficient operation of large-scale databases who wish to focus on analysis, who want to expand their repertoire to include a big data methodology and use metrics without being overwhelmed, who desire to provide accurate root cause analysis and avoid the cyclical fix-test cycles that are inevitable when speculation is used

Oracle SQL Tuning with Oracle SQLTXPLAIN Stelios Charalambides 2017-04-05 Learn through this practical guide to SQL tuning how Oracle's own experts do it, using a freely downloadable tool called SQLTXPLAIN. This new edition has been expanded to include AWR, Oracle 12c Statistics, interpretation of SQL Monitor reports, Parallel execution, and Exadata-related features. Reading this book and using

SQL helps you learn to tune even the most complex SQL, and you'll learn to do it quickly, without the huge learning curve usually associated with tuning as a whole. Firmly based in real-world problems, this book helps you reclaim system resources and avoid the most common bottleneck in overall performance, badly tuned SQL. You'll learn how the optimizer works, how to take advantage of its latest features, and when it's better to turn them off. Best of all, the book is updated to cover the very latest feature set in Oracle Database 12c. Covers AWR report integration Helps with SQL Monitor Report Interpretation Provides a reliable method that is repeatable Shows the very latest tuning features in Oracle Database 12c Enables the building of test cases without affecting production What You'll Learn Identify how and why complex SQL has gone wrong Correctly interpret AWR reports generated via SQLTXPLAIN Collect the best statistics for your environment Know when to invoke built-in tuning facilities Recognize when tuning is not the solution Spot the steps in a SQL statement's execution plan that are critical to performance of that statement Modify your SQL to solve performance problems and increase the speed and throughput of production database systems Who This Book Is For divAnyone who deals with SQL and SQL tuning. Both developers and DBAs will benefit from learning how to use the SQLTXPLAIN tool, and from the problem solving methodology in this book.

Easy Oracle Automation Arun Kumar 2005 Explaining how to use the powerful Oracle10g automatic features for simple database administration, this book has complete coverage for 10g Automatic Storage Management (ASM), 10g Automatic Workload Repository (AWR), Automatic Database Diagnostic Monitor (ADDM), Automatic SGA Management (ASM), and the SQL Tuning Advisor. Demonstrated is how a non-Oracle person can quickly install and configure Oracle database 10g for automatic database administration and how, in less than a day, a complete Oracle10g database can be ready to use. Also explained is easy disk and file management with the 10g Automatic Storage Management and how the 10g Automatic Workload Repository collects important Oracle performance statistics.

Oracle Tuning Alexey B. Danchenkov 2006-02-01 Oracle 10g has become the most complex database ever created and Oracle tuning has become increasingly complex. This book provides a complete step-by-step approach for holistic Oracle tuning and it is the accumulated knowledge from tuning thousands of Oracle databases. Incorporating the principles of artificial intelligence, Oracle10g has developed a sophisticated mechanism for capturing and tracking database performance over time periods. This new complexity has introduced dozens of new v\$ and DBA views, plus dozens of Automatic Workload Repository (AWR) tables. The AWR and its interaction with the Automatic Database Diagnostic Monitor (ADDM) is a revolution in database tuning. By understanding the internal workings of the AWR tables, the senior DBA can develop time-series tuning models to predict upcoming outages and dynamically change the instance to accommodate the impending resource changes. This is not a book for beginners. Targeted at the senior Oracle DBA, this book dives deep into the internals of the v\$ views, the AWR table structures and the new DBA history views. Packed with ready-to-run scripts, you can quickly monitor and identify the most challenging performance issues.

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