



Oracle Application Server 10g

Tuning Techniques

Donald K. Burleson

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Donald K. Burleson, Don Burleson



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Oracle Tuning: The Definitive Reference Donald K. Burleson, 2014-02 Oracle has become the world's most flexible and robust database and along with great power comes great complexity. This complexity requires that the DBA have expert knowledge of Oracle internals. This book provides a thorough step by step approach for holistic Oracle tuning in this challenging information technology era. It represents the knowledge accumulated from tuning thousands of Oracle databases. Oracle tuning has always been a complex task however it has become even more complex as Oracle evolves and yields new techniques for achieving optimal performance in the stressed production environment of today's high tech world. Oracle STATSPACK and AWR has introduced a revolution in database tuning. By understanding these time series tables we can develop time series tuning models to predict upcoming outages and dynamically change the instance to accommodate the impending resource changes. Database tuning efforts must become as sophisticated as the databases themselves. This book strives to show you how to leverage upon the wealth of Oracle performance information so that you can create a robust Oracle database engine one that maximizes computing resources while minimizing overhead. If you are seeking theory this is not the book for you. This book encapsulates the combined knowledge of over a century of hands on DBA tuning experience a pragmatic practical approach for the professional Oracle DBA. This is not a book for beginners. Targeted at the senior Oracle DBA this comprehensive book gives you all of the knowledge you need to be successful in tuning even the most complex Oracle database. The code download for this book is packed with ready to run scripts to monitor and identify even the most challenging performance issues. [ORACLE High-Performance SQL Tuning](#) DONALD K. BURLESON, [Oracle PL/SQL Tuning](#) Michael R. Ault, Eric Mortensen, Mike Ault, 2005. With tools for gaining as much as 30 times the execution speed this handbook educates database administrators on how to rewrite SQL into PL SQL and how to use advanced Oracle bulk array processing techniques to achieve high performance. Ready to use tips for saving millions of dollars in hardware costs by running applications at peak efficiencies are provided. Targeted at senior Oracle DBAs and developers these powerful techniques will help PL SQL users save both time and money. **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 Oracle 10g 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 **Oracle Tuning Power Scripts: With 100+ High Performance SQL Scripts** Harry Conway, Mike Ault, Donald Burleson, 2014-03 Written by the world's most widely read Oracle script developers and authors of over 50 best selling Oracle books Mike Ault Don Burleson and Harry Conway shares their personal arsenal of Oracle data dictionary scripts in this comprehensive book With over 50 years of combined experience using Oracle monitoring scripts and Oracle tuning scripts this is the most comprehensive Oracle script collection ever assembled Packed with over 100 ready to use Oracle scripts this is the definitive collection for every Oracle professional DBA It would take man years to develop these scripts from scratch making this book the best value in the Oracle industry Caution These are extremely powerful undocumented Oracle data dictionary scripts They should only be used by a certified Oracle DBA and after a careful review of the Oracle data dictionary script functionality These Oracle scripts are not for beginners and knowledge of the Oracle data dictionary is required to fully utilize these scripts USE AT YOUR OWN RISK *Oracle Tuning Power Scripts With 100+ High Performance Sql Scripts* Donald K Burleson, 2005-01-01 Written by the world's top Oracle script developers and authors of over 50 best selling Oracle books Mike Ault Don Burleson and Harry Conway shares their personal arsenal of Oracle data dictionary scripts in this comprehensive book With over 50 years of combined experience using Oracle monitoring scripts and Oracle tuning scripts this is the most comprehensive Oracle script collection ever assembled **Oracle High-performance Tuning with STATSPACK** Donald K. Burleson, 2001 In today's Internet centric economy quick and consistent response time is incredibly important Statspack allows the collection automation storage and viewing of performance data Plus it makes the collection of performance data easy to set up This tuning utility is becoming very popular Administrators that run Statspack need detailed techniques for using the information to tune their Oracle databases This book combines important tuning techniques with ready to use Statspack utility scripts *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 Silver Bullets Donald K.

Burleson, Don 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 Database 10g New Features](#) Mike Ault, Daniel Liu, Madhu Tamma, 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 9I High-Performance Tuning With Statspack** Burleson, 2004 This book explains how to use this versatile tool to capture analyze and report on your database as well as how to monitor tune and optimize system performance Get complete coverage of STATSPACK with this official guide includes ready to use STATSPACK scripts to collect and analyze system data and achieve peak performance [High Performance Oracle8 Tuning](#) Donald K. Burleson, 1998 This text aims to provide everything an Oracle 8 professional needs to know to create high quality high performance databases and database applications Featuring real world examples it should optimize the user s efforts by focusing on the handful of tuning techniques that provide maximum benefit The book explains the complex internals of the Oracle engine in simple easy to understand terms and gives the reader immediate insight into how Oracle manages data A CD ROM is included **Oracle Silver Bullets: Real-World Oracle Performance Secrets** Donald K Burleson, 2005-01-01 Every Oracle professional should feel the exhilaration of adding a single function based index and seeing the execution speed cut in half for 500 SQL statements It s these silver bullets that can make you a hero in your shop and amaze your friends and associates All Oracle tuning professionals know that they must start by optimizing the database as a whole before tuning individual SQL statements Only after you have tuned the external hardware disk RAID network OS kernel parms and the instance indexes CBO statistics optimal parameter settings is it appropriate to t [Oracle 11g New Features](#) Brian Carr, John Garmany, Lutz Hartmann, V. J. Jain, Steve Karam, 2008 Tackling some of the more than 500 updates to Oracle 11g that are intended to automate the inherent complexity of the Oracle engine this guidebook explores all of the new features from the perspective of a working Oracle professional This valuable resource examines only the important Oracle 11g enhancements and includes expert discussion about each new feature why the new feature is important and how to use the new 11g functionality Written by working Oracle experts for both current DBAs and Oracle developers and programmers this flagship book on Oracle 11g explores language and PL SQL DBA features RAC and enhancements performance features new security features and Enterprise Manager *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

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 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 Database 12c Performance Tuning Recipes Sam Alapati,Darl Kuhn,Bill Padfield,2013-12-03 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 What you'll learn Optimize the use of memory and storage Monitor performance and troubleshoot problems Identify and improve poorly performing SQL statements Adjust the most important optimizer parameters to your advantage Create indexes that get used and make a positive impact upon performance Automate and stabilize using key features such as SQL Tuning Advisor and SQL Plan Baselines Who this book is for Oracle Database 12c Performance Tuning Recipes is aimed squarely at Oracle Database administrators The book especially appeals to those administrators desiring to have at their side a ready to go set of solutions to common database performance problems Table of Contents Optimizing Table Performance Choosing and Optimizing Indexes Optimizing Instance Memory Monitoring System Performance Minimizing System Contention Analyzing Operating System Performance Troubleshooting the Database Creating Efficient SQL Manually Tuning SQL Tracing SQL Execution Automated SQL Tuning Execution Plan Optimization and Consistency Configuring the Optimizer Implementing Query Hints Executing SQL in Parallel

Oracle Performance Survival Guide Guy Harrison, 2009-10-09 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 quickly 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 Tuning and Optimization

Sitansu S. Mitra, 2006-04-18 Scope The book provides comprehensive coverage of database performance tuning and optimization 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 conceptual level results from data modeling and logical database design. When it is implemented via an RDBMS such as Oracle, it is mapped onto the internal level. Database objects 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 conceptual level.

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