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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 **Physical Database Design Using Oracle** Donald K. Burleson,2004-07-27 The evolution of Oracle has led to a revolution in design practices For Oracle 10g database physical structures have become more complex than ever before and database designers face multiple ways to implement their logical models IS students studying database design and administration need to be able to implement management systems in a way that *Oracle Administration and Management* Michael R. Ault,2002-10-23 Oracle is the leading database worldwide providing companies with fast access to critical business data Oracle Administration and Management shows database administrators and managers how to keep Oracle databases running reliably and at peak performance With the help of numerous real world examples and scenarios you ll gain valuable insight into all phases of Oracle database administration and management From the initial installation and daily maintenance to backup and recovery procedures you ll learn everything you need to know to become a successful Oracle DBA *Oracle9i High-Performance Tuning with STATSPACK* Donald K. Burleson,2002-04-12 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 Get complete coverage of STATSPACK Oracle s powerful tuning tool inside this official guide Including ready to use STATSPACK scripts you ll be able to collect and analyze system data and soon have your Oracle database running at peak performance

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 *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 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

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 Application Server Portal Handbook Chris Ostrowski, 2007-08-13 The Ultimate Oracle Application Server Portal Resource Build dynamic feature rich enterprise portals using Oracle Application Server Portal and the expert information in this exclusive Oracle Press guide You ll learn how to maximize the capabilities of Oracle Application Server Portal customize your portals integrate Oracle Forms and Oracle Reports and add Java functionality Oracle Application Server Portal Handbook covers all of the design management and security features available in Oracle Application Server Portal 10.1.4 alongside real world solutions Take full advantage of the built in tools and wizards Create rich end user experiences quickly and easily Customize pages and maintain site wide consistency using HTML templates Incorporate data from disparate formats using Oracle Application Server Portal s content management features Build pages using OmniPortlet and the Web clipping studio Write portlets with Java and Oracle JDeveloper Implement SOA based applications to connect business processes Administer tune and secure Oracle Application Server Portal Integrate Oracle

Forms Oracle Reports and Oracle Discoverer workbooks *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 *Database Tuning* Dennis Shasha, Philippe Bonnet, 2002-06-07 Tuning your database for optimal performance means more than following a few short steps in a vendor specific guide For maximum improvement you need a broad and deep knowledge of basic tuning principles the ability to gather data in a systematic way and the skill to make your system run faster This is an art as well as a science and *Database Tuning Principles Experiments and Troubleshooting Techniques* will help you develop portable skills that will allow you to tune a wide variety of database systems on a multitude of hardware and operating systems Further these skills combined with the scripts provided for validating results are exactly what you need to evaluate competing database products and to choose the right one Forward by Jim Gray with invited chapters by Joe Celko and Alberto Lerner Includes industrial contributions by Bill McKenna RedBrick Informix Hany Saleeb Oracle Tim Shetler TimesTen Judy Smith Deutsche Bank and Ron Yorita IBM Covers the entire system environment hardware operating system transactions indexes queries table design and application analysis Contains experiments scripts available on the author's site to help you verify a system's effectiveness in your own environment Presents special topics including data warehousing Web support main memory databases specialized databases and financial time series Describes performance monitoring techniques that will help you recognize and troubleshoot problems

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