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TANIYA DEANDRE

Oracle Database 12c Performance Tuning Recipes

"O'Reilly Media, Inc."
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

Unix for Oracle DBAs Pocket

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Developers and DBAs use Oracle SQL coding on a daily basis, whether for application development, finding

problems, fine-tuning solutions to those problems, or other critical DBA tasks. Oracle SQL: Jumpstart with Examples is the fastest way to get started and to quickly locate answers to common (and uncommon) questions. It includes all the basic queries: filtering, sorting, operators, conditionals, pseudocolumns, single row functions, joins, grouping and summarizing, grouping functions, subqueries, composite queries, hierarchies, flashback queries, parallel queries, expressions and regular expressions, DML, datatypes (including collections), XML in Oracle, DDL for basic database objects such as tables, views and indexes, Oracle Partitioning, security, and finally PL/SQL. * Each of the hundreds of SQL code examples was tested on a working Oracle 10g database * Invaluable everyday tool that provides an absolute plethora of properly tested examples of Oracle SQL code * Authors have four decades of commercial experience between them as developers and database administrators
Oracle Core: Essential Internals for DBAs and Developers McGraw Hill Professional
 Oracle Core: Essential Internals for DBAs

and Developers by Jonathan Lewis provides just the essential information about Oracle Database internals that every database administrator needs for troubleshooting—no more, no less. Oracle Database seems complex on the surface. However, its extensive feature set is really built upon upon a core infrastructure resulting from sound architectural decisions made very early on that have stood the test of time. This core infrastructure manages transactions and the ability to commit and roll back changes, protects the integrity of the database, enables backup and recovery, and allows for scalability to thousands of users all accessing the same data. Most performance, backup, and recovery problems that database administrators face on a daily basis can easily be identified through understanding the essential core of Oracle Database architecture that Lewis describes in this book. Provides proven content from a world-renowned performance and troubleshooting expert Emphasizes the significance of internals knowledge to rapid identification of database performance problems Covers the core

essentials and does not waste your time with esoterica

Oracle Database Performance and Scalability Sams Publishing

* Based on a proven best-seller and written by the most recognized Oracle expert in the world and f * Fully revised book, covering both for the 9i and 10g versions of the database * Based on what is widely-recognized as the best Oracle book ever written. It defines what Oracle really is, and why it is so powerful * Inspired by the thousands of questions Tom has answered on his <http://asktom.oracle.com> site. It defines what Oracle really is, and why it is so powerful It and it tackles the problems that developers and DBAs struggle with every day

Troubleshooting Oracle Performance Apress

Leverage Oracle Database 11g Release 2 High Availability Features Protect your critical business assets and achieve maximum database uptime using the detailed information in this Oracle Press guide. Oracle Database 11g Release 2 High Availability: Maximize Your Availability with Grid Infrastructure, Oracle

Real Application Clusters, and Oracle Data Guard, Second Edition provides cost-effective solutions to current availability challenges. Discover how to grid-enable your IT framework, roll out Oracle Real Application Clusters, maintain standby databases, and deploy Oracle Flashback. Monitoring, tuning, and disaster recovery techniques are also covered in this comprehensive resource. Install Oracle Clusterware (as part of Oracle's grid infrastructure) or upgrade from an earlier version Build test clusters and hosts using Oracle VM Work with Oracle Automatic Storage Management and Oracle Automatic Storage Management Cluster File System Create synchronized standby databases using Oracle Data Guard Reliably archive and restore data with Oracle Recovery Manager Use Oracle Flashback to identify and undo user errors Configure Oracle Enterprise Manager Grid Control for management of an Oracle maximum availability architecture environment

Physical Database Design Using Oracle

John Wiley & Sons

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. *Oracle Essentials* "O'Reilly Media, Inc." 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.

Oracle on LinuxONE Elsevier

In this book, Oracle experts Darl Kuhn, Sam Alapati, and Arup Nanda show you the power of Recovery Manager, or RMAN,

which is Oracle's backup and recovery tool of choice. Oracle RMAN Recipes helps you take advantage of all that RMAN has to offer. This handy guide demystifies the steps required to protect your business data. It provides ready-made and example-based solutions to common (and some not-so-common) backup and recovery operations.

Oracle Database 11g Release 2 High Availability: Maximize Your Availability with Grid Infrastructure, RAC and Data Guard "O'Reilly Media, Inc."

Now in its second edition, this best-selling book by Tom Kyte of "Ask Tom" fame continues to bring you some of the best thinking on how to apply Oracle Database to produce scalable applications that perform well and deliver correct results. Tom has a simple philosophy: you can treat Oracle as a black box and just stick data into it or you can understand how it works and exploit it as a powerful computing environment. If you choose the latter, then you'll find that there are few information management problems that you cannot solve quickly and elegantly. This fully revised second edition covers the developments up to Oracle Database

11g. Each feature is taught in a proof-by-example manner, not only discussing what it is, but also how it works, how to implement software using it, and the common pitfalls associated with it. Don't treat Oracle Database as a black-box. Get this book. Get under the hood. Turbo-charge your career. Fully revised to cover Oracle Database 11g Proof-by-example approach: Let the evidence be your guide Dives deeply into Oracle Database's most powerful features

Database Performance Tuning and Optimization "O'Reilly Media, Inc."

When your database application isn't running fast enough, troubleshooting is usually your first move. Finding the slow part of an application is often easy, but discovering a solution can prove much more difficult. Troubleshooting Oracle Performance helps by providing a systematic approach to addressing the underlying causes of poor database application performance. Written for developers by an application developer who has learned by doing, this book shows you how to plan for performance as you would for any other application requirement.

Oracle Enterprise Manager Cloud Control 12c Deep Dive Springer Science & Business Media

Based on Oracle8i, release 8.1, this concise book contains detailed, hard-to-find information about Oracle internals (data structures, algorithms, hidden parameters, and undocumented system statistics). Main topics include waits, latches, locks (including instance locks used in parallel server environments) and memory use and management.

Scaling Oracle8i Apress

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
[Oracle Performance Tuning for 10gR2 CreateSpace](#)

The Unix for Oracle DBAs Pocket Reference puts within easy reach the commands that Oracle database administrators need most when operating in a Unix environment. If you are an Oracle DBA moving to Unix from another environment such as Windows NT or IBM Mainframe, you know that these commands are far different from those covered in most beginning Unix books. To jump start your learning process, Don

Burleson has gathered together in this succinct book the Unix commands he most often uses when managing Oracle databases. You'll be able to reach into your pocket for the answer when you need to know how to: Display all Unix components related to Oracle, identify the top CPU consumers on your server, and even kill processes when necessary Stack Unix commands into powerful scripts that can perform vital DBA functions Monitor Unix filesystems, and automatically manage your trace files, dump files, and archived redo log files Use essential server monitoring commands such as top, sar, and vmstat And there's much more between these covers. If you need to get up to speed with Oracle on Unix, and quickly, this book is for you.

Oracle Automatic Storage

Management: Under-the-Hood & Practical Deployment Guide

Apress Expert Oracle RAC 12c is a hands-on book helping you understand and implement Oracle Real Application Clusters (RAC), and to reduce the total-cost-of-ownership (TCO) of a RAC database. As a seasoned professional, you are probably aware of the importance of understanding the

technical details behind the RAC stack. This book provides deep understanding of RAC concepts and implementation details that you can apply toward your day-to-day operational practices. You'll be guided in troubleshooting and avoiding trouble in your installation. Successful RAC operation hinges upon a fast-performing network interconnect, and this book dedicates a chapter solely to that very important and easily overlooked topic. All four authors are experienced RAC engineers with a wealth of hard-won experience encountering and surmounting the challenges of running a RAC environment that delivers on its promise. In Expert Oracle RAC 12c they provide you a framework in which to avoid repeating their hard-won lessons. Their goal is for you to manage your own RAC environment with ease and expertise. Provides a deep conceptual understanding of RAC Provides best practices to implement RAC properly and match application workload Enables readers to troubleshoot RAC with ease What you'll learn Know when to apply RAC, and when not to Design applications to take advantage of RAC Troubleshoot and solve clusterware problems Manage

database backup and recovery in RAC Stay on top of locking issues and deadlock detection Harness the performance from parallel processing in RAC Support your RAC environment with a healthy network interconnect Who this book is for Expert Oracle RAC 12c is for experienced Oracle Database Administrators (DBAs) who are ready to take the next step in their career by expanding their skill set to include building and managing Oracle Real Application Clusters (RAC). DBAs and architects who are in the process of implementing RAC can immensely benefit from this book. It's an excellent choice for DBAs to learn RAC conceptually, understand best practices, and become experts in troubleshooting RAC problems. Table of Contents Overview of Oracle RAC Clusterware Management and Troubleshooting RAC Operational Practices RAC New Features Storage and ASM Practices Application Design Issues Managing and Optimizing a Complex RAC Environment Backup and Recovery in RAC Network Practices in RAC RAC Database Optimization Locks and Deadlocks Parallel Query in RAC Clusterware and Database Upgrades Oracle RAC One Node

Oracle Essentials Apress

Sam Alapati's Expert Oracle Database 11g Administration is a comprehensive handbook for Oracle database administrators (DBAs) using the 11g release of the Oracle Database. All key aspects of database administration are covered, including backup and recovery, day-to-day administration and monitoring, performance tuning, and more. This is the one book to have on your desk as a continual reference. Refer to it frequently. It'll help you get the job done.

Comprehensive handbook for Oracle Database administrators. Covers all major aspects of database administration. Tests and explains in detail key DBA commands. Offers primers on Linux/Unix, data modeling, SQL, and PL/SQL.

Managing Multimedia and Unstructured Data in the Oracle Database McGraw Hill Professional

This is the complete, expert guide to building enterprise-class UNIX-based Oracle OLTP systems that deliver maximum performance and scalability. In *Scaling Oracle 8i*, one of the world's leading Oracle consultants introduces today's best methods and technologies for

building industrial-strength Oracle database systems on UNIX platforms. Understand exactly what scalability means in the enterprise; then discover how to deliver it, step-by-step, from the ground up, through design, testing, construction, maintenance, benchmarking, and ongoing management. More covers every component that impacts performance, including hashing, caching, hardware architecture and I/O subsystems, Oracle database objects, data storage, memory structures, and a detailed review of the Oracle Parallel Server. Readers will find comprehensive coverage of tuning the underlying UNIX platform to improve OLTP response times; including co-engineering the kernel; working with virtual memory, I/O, interprocess communication; and more. *Scaling Oracle 8i* contains a full chapter on the special issues associated with e-commerce, as well as a detailed case study drawn from one of the world's largest car rental reservations systems. For all enterprise system architects, database engineers, and application developers working with Oracle.

Oracle Automatic Storage Management
Rampant TechPress

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

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Expert Oracle Database Architecture
McGraw Hill Professional

Oracle Database In-Memory delivers leading-edge in-memory performance without the need to restrict functionality or accept compromises, complexity and risk. Deploying Oracle Database In-Memory with virtually any existing Oracle Database

compatible application is as easy as flipping a switch--no application changes are required. It is fully integrated with Oracle Database's scale-up, scale-out, storage tiering, availability and security technologies making it the most industrial-strength offering in the industry. Oracle Database In-Memory accelerate database performance by orders of magnitude for analytics, data warehousing, and reporting while also speeding up online transaction processing (OLTP). Allow any existing Oracle Database-compatible application to automatically and transparently take advantage of columnar in-memory processing, without additional programming or application changes. With Oracle Database In-Memory is possible fast ad-hoc analytics without the need to pre-create indexes, completely transparent to existing applications, faster mixed workload OLTP, no database size limit, industrial strength availability and security and robustness and maturity of Oracle Database 12c. Oracle Database In-Memory's ability to easily perform real-time data analysis together with real-time transaction processing enables organizations to become Real-Time

Enterprises: Enterprises that quickly make data-driven decisions, respond instantly to customer demands, and continuously optimize all key business processes to maximize profitability. The most important content of the book is as follows: ORACLE DATA BASE IN-MEMORY. ESSENTIAL CHARACTERISTICS ORACLE DATABASE 12C IN-MEMORY ARCHITECTURE HANA AND ORACLE DATABASE 12C ORACLE DATABASE IN-MEMORY OPTION ROW FORMAT VS. COLUMN FORMAT THE IN-MEMORY COLUMN STORE POPULATING THE IN-MEMORY COLUMN STORE RESTRICTIONS IN-MEMORY COMPRESSION IN-MEMORY SCANS IN-MEMORY JOINS IN-MEMORY AGGREGATION DML AND THE IN-MEMORY COLUMN STORE PARTITION EXCHANGE LOADS TRANSACTION PROCESSING THE IN-MEMORY COLUMN STORE ON RAC IN-MEMORY FAULT TOLERANCE THE IN-MEMORY COLUMN STORE IN A MULTITENANT ENVIRONMENT CONTROLLING THE USE OF ORACLE DATABASE IN-MEMORY OPTIMIZER HINTS IN-MEMORY SCAN IN-MEMORY JOINS IN-MEMORY AGGREGATION MONITORING AND MANAGING ORACLE DATABASE IN-MEMORY IN-MEMORY COLUMN STORE.

EXAMPLES MANAGING TABLES MANAGING COLUMNS MANAGING MATERIALIZED VIEWS MANAGING TABLESPACES VIEWS WORKING WITH ORACLE DATABASE IN-MEMORY SOFTWARE ORACLE DATABASE IN-MEMORY. EXAMPLES ORACLE DATABASE SOFTWARE INTRODUCTION AND INSTALLATION

Easy Oracle Automation McGraw Hill Professional

* A proven best-seller by the most recognized Oracle expert in the world. * The best Oracle book ever written. It defines what Oracle really is, and why it is so powerful. * Inspired by the thousands of questions Tom has answered on his <http://asktom.oracle.com> site. It tackles the problems that developers and DBAs struggle with every day. * Provides everything you need to know to program correctly with the database and exploit its feature-set effectively.

Oracle PL/SQL Programming Pearson Education

Speed up the execution of important database queries by making good choices about which indexes to create. Choose correct index types for different scenarios. Avoid indexing pitfalls that can actually

have indexes hurting performance rather than helping. Maintain indexes so as to provide consistent and predictable query response over the lifetime of an application. Expert Oracle Indexing and Access Paths 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 Oracle Indexing and Access Paths helps by bringing together information on indexing and how to use it into one blissfully short volume that you can read quickly and have at your fingertips for reference. Learn the different types of indexes available and when each is best applied.

Recognize when queries aren't using indexes as you intend. Manage your indexing for maximum performance. Confidently use the In Memory column store feature as an alternate access path to improve performance. Let Expert Indexing in Oracle Database 12c be your guide to deep mastery of the most fundamental performance optimization structure in Oracle Database. Explains how indexes help performance, and sometimes hinder it too Demystifies the various index choices so that you can chose rightly Describes the database administration chores associated with indexes Demonstrates the use of the In Memory column store as an alternate access path to the data What You Will Learn Create an overall indexing strategy to guide your decisions Choose the correct indexing mechanisms for your applications Manage and maintain indices to avoid degradation and preserve efficiency Take better advantage of underused index types such as index-organized tables Choose the appropriate columns to index, with confidence Blend partitioning and materialized views into your indexing strategy Who This Book Is For All levels of

database administrators and application developers who are struggling with the database performance and scalability

challenge. Any database administrator involved with indexing, which is any

database administrator period, will appreciate the wealth of advice packed into this gem of a book.

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