Oracle Sql High Performance Tuning Prentice Hall Ptr Oracle 2nd Second Edition By Harrison Guy Published By Prentice Hall 2000

This text provides Oracle users with quick and sure-fire examples to assist them in tweaking their system for optimal performance.

In this unique workbook pedagogy with hands-on exercises, programming projects and a free Web-based training module, the author covers every key Oracle SQL concept: SQL*Plus, DDL, DML, DQL, the Oracle Data Dictionary, and more!

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.

"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

With the aim of simplifying relational database modeling, Database Modeling Step-by-Step presents the standard approach to database normalization and then adds its own approach, which is a more simplistic, intuitive way to building relational database models. Going from basics to contemporary topics, the book opens with relational data modeling and ends with BigData database modeling following a road map of the evolution in relational modeling and including brief introductions to data warehousing and BigData modeling. A break-down of the elements of a model explains what makes up a relational data model. This is followed by a comparison between standard normalization and a more simplistic intuitive approach to data modeling that a beginner

can follow and understand. A brief chapter explains how to use the database programming language SQL (Structured Query Language), which reads from and writes to a relational database. SQL is fundamental to data modeling because it helps in understanding how the model is used. In addition to the relational model, the last three chapters cover important modern world topics including denormalization that leads into data warehouses and BigData database modeling. The book explains how there is not much to logical data modeling in BigData databases because as they are often schema-less, which means that BigData databases do not have schemas embedded into the database itself, they have no metadata and thus not much of a logical data model. Online bonus chapters include a case study that covers relational data modeling and are available at the author's web site: www.oracletroubleshooter.com/datamodeling.html

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.

"Geoff Ingram has met the challenge of presenting the complexprocess of managing Oracle performance. This book can support everytechnical person looking to resolve Oracle8i

and Oracle9iperformance issues." -Aki Ratner, President, Precise Software Solutions Ensuring high-performance and continuous availability of Oraclesoftware is a key focus of database managers. At least a dozenbooks address the subject of "performance tuning"-- that is, how tofine-tune the Oracle database for its greatest processingefficiency. Geoff Ingram argues that this approach simply isn'tenough. He believes that performance needs to be addressed rightfrom the design stage, and it needs to cover the entire system--notjust the database. High-Performance Oracle is a hands-on book, loaded with tips andtechniques for ensuring that the entire Oracle database system runsefficiently and doesn't break down. Written for Oracle developersand DBAs, and covering both Oracle8i and Oracle9i, the book goesbeyond traditional performance-tuning books and covers the keytechniques for ensuring 24/7 performance and availability of thecomplete Oracle system. The book provides practical solutions for: * Choosing physical layout for ease of administration and efficientuse of space * Managing indexes, including detecting unused indexes andautomating rebuilds * SQL and system tuning using the powerful new features in Oracle9iRelease 2 * Improving SQL performance without modifying code * Running Oracle Real Application Clusters (RAC) for performanceand availability * Protecting data using Recover Manager (RMAN), and physical andlogical standby databases The companion Web site provides the complete source code forexamples in the book, updates on techniques, and additionaldocumentation for optimizing your Oracle system.

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.

This handbook provides database administrators with clear and concise processes with which to attack tuning problems using Oracle Wait Interface. A guide is provided to demonstrate the mechanics of the Wait Interface and how to use it not only to tune database performance at the database level but also to give the statistics needed to understand problems that lie outside of the database in the SAN or the network. Techniques that apply to tuning any Oracle database from version 7 through 9i and beyond are included.

Provides information on ways to achieve high performance from PL/SQL.

This book dealt with below intention: Improve performance of oracle code by showcasing all possible alternative concepts present in database This intention have arisen based on the burning need of database users I have come across throughout my career with roles like PL/SQL developers, Database Administrators, Designers, Data analysts, Performance tuning analysts, Architects, Students, Professors, Interviewees and any DBMS enthusiast or aspirant for oracle certification. Some of these had extensive experience in what they do and have influenced me writing this book. This book will teach you how you

can tune your database application by refactoring your code. Also it provides advices on tuning approach. The audience of this book would like to cover multiple versions of Oracle and the features it offers. Seeking the best approach for a challenge has not been easy in past as it required a large investment of time and effort to go through the vast amount of documentation. This 135 pages book facilitates that investment, by exploring and churning the vast archives of oracle documentation and producing the output in a nutshell which otherwise readers would need to spend time on.

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 SQL Tuning with SQLTXPLAIN is a practical guide to SQL tuning the way Oracle's own experts do it, using a freely downloadable tool called SQLTXPLAIN. Using this simple tool you'll learn how 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. Quickly tune any SQL statement no matter how complex. Build and tune test cases without affecting production. Use the latest tuning features with confidence.

Learn to use Oracle 9i to build dynamic, data-driven Web sites. Get step-by-step details on creating and deploying Web applications using PL/SQL, HTML, Java, XML, WML, Peri and PHP. This book covers everything users need to know to master Web application development in an Oracle environment - using PL/SQL.

Oracle Languages - Syntax summary for SQL language statements, SQL function calls PL/SQL language statements and characteristics, PL/SQL built-in package headers, and Java (JDBC and SQLJ) interfaces to the Oracle database.

The complete, systematic, expert guide to Oracle 11g Release 2 performance tuning -- for all DBAs and developers, regardless of experience * *Shows how to tune performance efficiently, by addressing causes rather than symptoms. *Addresses all facets of performance, including application design, SQL tuning, content management, memory, physical IO, and more *Helps tuners focus on the areas where the greatest gains can be found. *By Guy Harrison,

author of the top-selling Oracle SQL High Performance Tuning. Oracle Performance Survival Guide offers a structured methodology for optimizing Oracle performance in the most systematic and efficient manner possible. Authored by leading Oracle expert Guy Harrison, this is the first book to contain up-to-the-minute guidance for optimizing the performance of the new Oracle 11g Release 2. Harrison helps DBAs and developers quickly and efficiently optimize performance by focusing on causes rather than symptoms, and by identifying the areas that will deliver the greatest 'bang for the buck' in their applications and environments. He covers every area of Oracle performance management, from application design through SQL tuning, content management through memory and physical IO management. Harrison begins by introducing Oracle structured performance tuning principles and tools, including techniques for tracing and monitoring Oracle execution. He illuminates the interaction between applications and databases, guides Oracle professionals through choosing tuning tools, and covers a wide range of techniques for efficient application design. Coverage includes statistics collection, configuration objects, and tuning table accesses, joins, subqueries, sorts, and aggregates; eliminating contention; and much more.

Explains how to develop applications using Oracle PL/SQL, covering such concepts as iterative and

conditional control, scoping, anchored datatypes, security, tables, and cursors.

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

Start developing applications with Oracle PL/SQL-fast! This integrated book-and-Web learning solution teaches all the Oracle PL/SQL skills you need, hands on, through real-world labs, extensive examples, exercises, projects, and a complete Web-based training site. Oracle PL/SQL by Example, Third Edition covers Oracle 10G and all the fundamentals: Master PL/SQL syntax, iterative and conditional control, scoping, anchored datatypes, cursors, triggers, security, tables, procedures, functions, packages and Oracle-supplied packages-plus powerful new techniques for working with exceptions, cursors, collections, and records. Your free Web-based training module includes a Virtual Study Lounge where you can interact with other learners, work on new projects, and get updates! Totally integrated with a FREE, state-of-the-art Oracle 10G learning Web site! Every Prentice Hall Oracle Interactive Workbook is fully integrated with its own exclusive Web site, giving you all this and more: "Test Your Thinking" project solutions and detailed explanations Additional self-review exercises with instant feedback and explanations An exclusive Virtual Study Lounge where you can interact with other students! Just the facts! No endless, boring discussions here! You'll learn hands on, through practical exercises, self-review

questions, and real-world answers. Exclusive "Test Your Thinking" projects guarantee you'll go beyond rote knowledge to really master the subject! It's an integrated learning system that's proven to work!
The ultimate reference guide to successful implementation of star schemas within Oracle data warehouses, this edition also covers Oracle 8i and Oracle 9i with real-world examples, sample code and benchmarks to illustrate key concepts.
This is a comprehensive quide to writing SQL code that's optimized for performance. It includes a unique set of software tools on CD-ROM for benchmarking SQL performance.
PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE
Within a given enterprise, database management involves the monitoring, administration, and maintenance of the databases, which constantly change with new technologies and new forms of data.Cross-Disciplinary Models and Applications of Database Management: Advancing Approaches is an updated look at the latest tools and technology within the burgeoning field of database management. Perfect for the network administrator, technician, information technology specialist or consultant, or for academics and students, this volume presents the latest the field has to offer by way of cases and new research. As database languages, models, and systems change, it's vital for

practitioners within the field to stay abreast of the latest research and methods being used around the world, and this book offers the most current advances available.

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 tales, 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

Provides a set of interview questions and answers to access the technical knowledge and characteristics of Oracle IT job applicants.

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 "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 SQL High-performance TuningPrentice Hall

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

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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.
Take Your PL/SQL Programming Skills to the Next Level Build robust database-centric PL/SQL applications quickly and effectively. Oracle Database 12c PL/SQL Advanced Programming Techniques shows you how to write and deploy Java libraries inside Oracle Database 12c, use the utl_file and DBMS_SCHEDULER packages, and create external tables and external procedures. Application security, performance tuning, and Oracle Database In-Memory are also covered in this Oracle Press guide. Configure, deploy, and troubleshoot Java libraries for Oracle object types Use the utl_file package to manage unstructured and structured data Develop and deploy Java I/O libraries and wrap them with PL/SQL Create and use external tables Implement high-speed data transfer Harden database systems and develop secure applications Manage complex schedules and jobs with the DBMS_SCHEDULER

package Optimize PL/SQL for use in performance tuning Create and deploy external procedures Implement the Oracle Database In-Memory column store feature

Database professionals will find that this new edition aids in mastering the latest version of Microsoft's SQL Server. Developers and database administrators (DBAs) use SQL on a daily basis in application development and the subsequent problem solving and fine tuning. Answers to SQL issues can be quickly located helping the DBA or developer optimize and tune a database to maximum efficiency. Basic questions are easily located on the topics of filtering, sorting, operators, conditionals, pseudo columns, single row functions, joins, grouping functions, sub queries, composite queries, hierarchies, flashback queries, parallel queries, expressions and regular expressions. Assistance on DML, data types (including collections), XML, DDL for basic database objects such as tales, views and indexes, partitioning, and security is also considered. * Identifies and discusses the most common issues database administrators (DBAs) face day-to-day *Provides DBAs with solutions actually used by the authors in enterprise environments *Explores new features which add more control but reduce performance CD-ROM contains: Practice database -- Sample scripts reference in text.

Creating Oracle 8 database applications involves more than just banging out SQL code. Skills like creating efficient stored procedures, designing robust exception handlers, and debugging SQL and PL/SQL (Oracle's SQL extensions) must all be mastered, and that is the mission of this book. The CD-ROM features all project code and easily accessible demonstration databases, plus SQL scripts, automation tools, templates, and optimizing database design resources.

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

Maintain a high-performance Oracle9i environment using the proven tuning methods presented in this authoritative resource. This book offers hundreds of essential tips guaranteed to enhance system performance. Real-world examples illustrate insider best practices and in-depth details throughout the book highlight the new tuning options available in Oracle9i.

Canada was young during the First World War, and with as many as 20,000 underage soldiers leaving their homes to join the war effort, the country's army was, too. Jim, at 17, was one of them, and he penned countless letters home. But these weren't the writings of an ordinary boy. They were the letters of a lad who left a small farming community for the city on July 15, 1915, a boy who volunteered to serve with the 79th Queen's Own Cameron Highlanders. Jim's letters home gloss over the horrors of war, focusing instead on issues of the home front: of harvesting, training the horses, and the price of hogs. Rarely do these letters, especially those to his mother and father, mention the mud and rats, the lice and stench of the trenches, or the night duty of cutting barbed wire in no man's land. For 95 years his letters remained in a shoebox decorated by his mother. Jim was just 18 when he was wounded and died during the Battle of the Somme. Hold the Oxo! tells the story that lies between the lines of his letters, filling in the historical context and helping us to understand what it was like to be Jim.

Grid architecture is Oracle’s strategy for high-end computing and RAC is the stepping stone into this arena. This book focuses on current technology including all

valid RAC features up through Oracle Database 10g Release 2, with a primary focus on deploying it in a high-end grid environment. The book discusses this technology at length which users will find beneficial when researching, implementing or monitoring a RAC environment. The author covers workshop implementation of services and the distribution of workload across instances, with threshold definitions and the new load balancing algorithms. In addition it includes detailed discussions on ASM that complements the implementation of RAC in Oracle Grid strategy. The book also includes discussions on new Oracle Clusterware, its components and its integration with RAC. Oracle 10g RAC focuses on RAC-specific topics including ASM, operating system configuration, installation and configuration of RAC and much more. Coverage includes network configuration for high availability, FAN, TAF, ONS, implementation of maximum availability architecture (MAA), EM Grid Control, AWR, ADDM and other performance-related tools. The author includes several scripts for performance tuning and implementation that the reader can use to configure a RAC environment either on a 2, 4, 8, 60 or 99 node configuration. Focuses on implementing, testing and tuning features of Real Application Clusters (RAC) database version 10g Release 2 Provides extensive coverage of usage, day-to-day functions and operations Includes tips and techniques such as script samples to illustrate various features of RAC A jumpstart into all the key features of 10g R2 RAC