Database Performance Tuning

Who?

- Application designers
- Application developers
- Database administrators
- System administrators
- Network Administrators

Why?

- Have clear IDEA of achievements from TUNING

How much?

- Quantify clear goals precisely

- Ex:- Process 20,000 orders per day

DATABASE

PERFORMANCE

TUNING

Oracle Sql Tuning Guide

Guy Harrison

Oracle Sql Tuning Guide:

Oracle SQL High-performance Tuning Guy Harrison,Raymond Aron,2001 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 **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 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 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   *Pro Oracle SQL Development* Jon Heller,2022-12-26 Write SQL statements that are more powerful simpler and faster using the advanced features of Oracle SQL This updated second edition includes the newest advanced features improved data structures such as more JSON support and more table options improved automated processes such as automatic indexing and improved SQL language extensions such as polymorphic table functions SQL macros and the multilingual engine Pro Oracle SQL Development is for anyone who already knows Oracle SQL and is ready to take their skills to the next level This book provides a clearer way of thinking about SQL by building sets and it provides practical advice for using complex features while avoiding anti patterns that lead to poor performance and wrong results Relevant theories real world best practices and style guidelines help you get the most out of Oracle SQL Many

developers testers analysts and administrators use Oracle databases frequently but their queries are limited because they do not take advantage of Oracle s advanced features This book inspires you to achieve more with your Oracle SQL statements by creating your own style for writing simple yet powerful SQL It teaches you how to think about and solve performance problems in Oracle SQL and it covers enough advanced topics to put you on the path to becoming an Oracle expert What You ll Learn Solve challenging problems with declarative SQL instead of procedural languages Write SQL statements that are large and powerful but also elegant and fast Create development environments that are simple scalable and conducive to learning Visualize and understand SQL more intuitively Apply advanced syntax objects and architecture Avoid SQL anti patterns that accumulate technical debt Tune SQL statements with multiple strategies that can significantly improve performance Who This Book Is For Developers testers analysts and administrators who want to harness the full power of Oracle SQL to solve their problems as simply and as quickly as possible traditional database professionals looking for new ways of thinking about the language they have used for so long and modern full stack developers who need an explanation of how a database can be much more than simply a place to store data   **Oracle Essentials** Rick Greenwald,Robert Stackowiak,Associate Fellow Sustainable Development Programme Royal Institute of International Affairs Jonathan Stern,Jonathan Stern,2013-09-06 Written by Oracle insiders this indispensable guide distills an enormous amount of information about the Oracle Database into one compact volume Ideal for novice and experienced DBAs developers managers and users Oracle Essentials walks you through technologies and features in Oracle s product line including its architecture data structures networking concurrency and tuning Complete with illustrations and helpful hints this fifth edition provides a valuable one stop overview of Oracle Database 12c including an introduction to Oracle and cloud computing Oracle Essentials provides the conceptual background you need to understand how Oracle truly works Topics include A complete overview of Oracle databases and data stores and Fusion Middleware products and features Core concepts and structures in Oracle s architecture including pluggable databases Oracle objects and the various datatypes Oracle supports System and database management including Oracle Enterprise Manager 12c Security options basic auditing capabilities and options for meeting compliance needs Performance characteristics of disk memory and CPU tuning Basic principles of multiuser concurrency Oracle s online transaction processing OLTP Data warehouses Big Data and Oracle s business intelligence tools Backup and recovery and high availability and failover solutions   **Oracle Database 10g Performance Tuning Tips & Techniques** Richard Niemiec,2007-07-16 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 12c Release 2

<u>Performance Tuning Tips & Techniques</u> 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 19c AutoUpgrade Best Practices** Sambaiah Sammeta,Sukumar Chillakuru,2021-11-30 Master Oracle s AutoUpgrade tool effectively to upgrade Oracle databases from lower versions to 19c KEY FEATURES In depth practical demonstration of Oracle database upgrades with various real time scenarios Step by step illustration of each Oracle database upgrade and downgrade method Fastest ever multiple Oracle databases upgrade DESCRIPTION Oracle 19c AutoUpgrade Best Practices is a simple cookbook for database professionals to upgrade from lower versions to 19c or downgrade from 19c to lower versions This book is dedicated solely to demonstrate upgrading Oracle Databases to 19c by using AutoUpgrade tool It has a very good explanation about different AutoUpgrade processing modes Analyze Fixup Deploy and Upgrade and various stages that the AutoUpgrade job runs while performing database upgrade Multiple chapters in this book covers various scenarios with detailed steps for upgrading Oracle database from versions 11g 12c 18c to version 19c and Downgrading from 19c to 11g 12c 18c By the end of this book every Oracle DBA can gain real time experience and become a master in upgrading and downgrading oracle databases Standalone RAC Standby using AutoUpgrade Utility WHAT YOU WILL LEARN Learn to use the Oracle database upgrade tool AutoUpgrade for various DB challenges Understand how to convert a non container database to a 19c pluggable database Get to know how to upgrade multiple databases of different versions to 19c in a single operation WHO THIS BOOK IS FOR This book is intended for Oracle DBA students Database administrators Database Architects and anyone else who want to improve their database upgrade or downgrade skills in a concise and understandable manner TABLE OF CONTENTS 1 Introduction to DB Upgrades 2 Upgrading Oracle Database from 11 2 0 4 to 19 9 0 Using dbupgrade Manual 3 Upgrading Oracle Database from 11 2 0 4 to 19 9 0 Using AutoUpgrade 4 Upgrading and Converting 12c non CDB as 19c PDB 5 Upgrading Oracle Multitenant Database from 12c 18c to 19c 6 Upgrading and Converting 12c non CDB as 19c PDB using AutoUpgrade 7 Upgrading Multiple Database Versions 11g 12c 18c to 19c Using the Single AutoUpgrade Command **Oracle Advanced PL/SQL**

Developer Professional Guide Saurabh K. Gupta,2012-01-01 This book is packed with real world examples that cover all the advanced features of PL SQL In turn each major certification topic is covered in a separate chapter that makes understanding concepts easier At the end of each chapter you will find plenty of practice questions to strengthen and test your learning If you are a PL SQL developer looking for deeper insight and a move from mid level programmer to professional database developer then this is the best guide for you This book is also an ideal guide for all the Associate level PL SQL programmers who are preparing for the Professional 1Z0 146 certification This book assumes you have prior knowledge of PL SQL programming   *Easy Oracle Automation* Arun Kumar R.,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   **Quick Start Guide to Oracle Query Tuning: Tips for Dbas and Developers** Rich Niemiec,2015-02-11   **Mastering Oracle SQL and SQL*Plus** Lex deHaan,2006-11-01 This exceptional book explains fundamentals in detail supported by realistic examples while most other books on the market do not properly cover such basics If you work with relational databases you need to understand the SQL language And you will gain full competence to define access and manipulate data in an Oracle database if you do so following this book s guidance This book is fully compliant with the latest version of the ANSI SQL standard and fully updated for the Oracle 10g database Furthermore this book is based on a popular Netherlands college textbook currently in its third edition And author Lex de Haan is vastly experienced with the Oracle database and has 25 years of teaching experience de Haan is also a member of the ANSI ISO SQL standardization national body   **Expert Oracle SQL** Tony Hasler,2014-07-05 Expert Oracle SQL Optimization Deployment and Statistics is about optimizing individual SQL statements especially on production database systems This Oracle specific book begins by assuming you have already identified a particular SQL statement and are considering taking steps to improve its performance The book describes a systematic process by which to diagnose a problem statement identify a fix and to implement that fix safely in a production system You ll learn not only to improve performance when it is too slow but also to stabilize performance when it is too variable You ll learn about system statistics and how the Cost Based Optimizer uses them to determine a suitable execution plan for a given statement That knowledge provides the foundation from which to identify the root cause and to stabilize and improve performance Next after identifying a problem and the underlying root cause is to put in place a solution Expert Oracle SQL Optimization Deployment and Statistics explains how to apply various remedies such as changing the SQL statement adding hints changing the physical

design and more and how they can be brought to bear on fixing a problem once and for all Rolling a change out smoothly is an important topic when dealing with tuning and optimization Expert Oracle SQL Optimization Deployment and Statistics does not let you down in this critical area The book contains two chapters of good information from an experienced professional on how to safely deploy changes into production so that your systems remaining running and available throughout the deployment process Describes a systematic approach to tuning Oracle SQL Explains how things are supposed to work what can go wrong and how to fix it Takes you through the steps needed to stabilize performance in your production systems   *Mastering Oracle SQL* Sanjay Mishra,Alan Beaulieu,2004-06-22 The vast majority of Oracle SQL books discuss some syntax provide the barest rudiments of using Oracle SQL and perhaps include a few simple examples It might be enough to pass a survey course or give you some buzz words to drop in conversation with real Oracle DBAs But if you use Oracle SQL on a regular basis you want much more You want to access the full power of SQL to write queries in an Oracle environment You want a solid understanding of what s possible with Oracle SQL creative techniques for writing effective and accurate queries and the practical hands on information that leads to true mastery of the language Simply put you want useful expert best practices that can be put to work immediately not just non vendor specific overview or theory Updated to cover the latest version of Oracle Oracle 10g this edition of the highly regarded Mastering Oracle SQL has a stronger focus on technique and on Oracle s implementation of SQL than any other book on the market It covers Oracle s vast library of built in functions the full range of Oracle SQL query writing features regular expression support new aggregate and analytic functions subqueries in the SELECT and WITH clauses multiset union operators enhanced support for hierarchical queries leaf and loop detection and the CONNECT_BY_ROOT operator new partitioning methods some introduced in Oracle9i Release 2 and the native XML datatype XMLType Mastering Oracle SQL 2nd Edition fills the gap between the sometimes spotty vendor documentation and other books on SQL that just don t explore the full depth of what is possible with Oracle specific SQL For those who want to harness the untapped and often overlooked power of Oracle SQL this essential guide for putting Oracle SQL to work will prove invaluable   *Oracle SQL High-performance Tuning* Guy Harrison,Raymond Aron,2001 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 **Advanced Oracle PL/SQL Developer's Guide** Saurabh K. Gupta,2016-02-15 Master the advanced concepts of PL SQL for professional level certification and learn the new capabilities of Oracle Database 12c About This Book Learn advanced application development features of Oracle Database 12c and prepare for the 1Z0 146 examination Build robust and secure applications in Oracle PL SQL using the best practices Packed with feature demonstrations and illustrations that will help you learn and understand the enhanced capabilities of Oracle Database 12c Who This Book Is For This book is for Oracle developers responsible for database management Readers are expected to have basic knowledge of Oracle Database and the fundamentals of PL SQL programming Certification aspirants can use this book to prepare for 1Z0 146 examination in order to be an Oracle Certified Professional in Advanced PL SQL What You Will Learn Learn and understand the key SQL and PL SQL features of Oracle Database 12c Understand the new Multitenant architecture and Database In Memory option of Oracle Database 12c Know more about the advanced concepts of the Oracle PL SQL language such as external procedures securing data using Virtual Private Database VPD SecureFiles and PL SQL code tracing and profiling Implement Virtual Private Databases to prevent unauthorized data access Trace analyze profile and debug PL SQL code while developing database applications Integrate the new application development features of Oracle Database 12c with the current concepts Discover techniques to analyze and maintain PL SQL code Get acquainted with the best practices of writing PL SQL code and develop secure applications In Detail Oracle Database is one of the most popular databases and allows users to make efficient use of their resources and to enhance service levels while reducing the IT costs incurred Oracle Database is sometimes compared with Microsoft SQL Server however Oracle Database clearly supersedes SQL server in terms of high availability and addressing planned and unplanned downtime Oracle PL SQL provides a rich platform for application developers to code and build scalable database applications and introduces multiple new features and enhancements to improve development experience Advanced Oracle PL SQL Developer s Guide Second Edition is a handy technical reference for seasoned professionals in the database development space This book starts with a refresher of fundamental concepts of PL SQL such as anonymous block subprograms and exceptions and prepares you for the upcoming advanced concepts The next chapter introduces you to the new features of Oracle Database 12c not limited to PL SQL In this chapter you will understand some of the most talked about features such as Multitenant and Database In Memory Moving forward each chapter introduces advanced concepts with the help of demonstrations and provides you with the latest update from Oracle Database 12c context This helps you to visualize the pre and post applications of a feature over the database releases By the end of this book you will have become an expert in PL SQL programming and will be able to implement advanced concepts of PL SQL for efficient management of Oracle Database Style and approach The book follows the structure of the Oracle Certification examination but doesn t restrict itself to the exam objectives Advanced concepts have been explained in an easy to

understand style supported with feature demonstrations and case illustrations   Oracle PL/SQL Best Practices Steven Feuerstein,2007-10-22 In this compact book Steven Feuerstein widely recognized as one of the world s leading experts on the Oracle PL SQL language distills his many years of programming teaching and writing about PL SQL into a set of best practices recommendations for developing successful applications Covering the latest Oracle release Oracle Database 11gR2 Feuerstein has rewritten this new edition in the style of his bestselling Oracle PL SQL Programming The text is organized in a problem solution format and chronicles the programming exploits of developers at a mythical company called My Flimsy Excuse Inc as they write code make mistakes and learn from those mistakes and each other This book offers practical answers to some of the hardest questions faced by PL SQL developers including What is the best way to write the SQL logic in my application code How should I write my packages so they can be leveraged by my entire team of developers How can I make sure that all my team s programs handle and record errors consistently Oracle PL SQL Best Practices summarizes PL SQL best practices in nine major categories overall PL SQL application development programming standards program testing tracing and debugging variables and data structures control logic error handling the use of SQL in PL SQL building procedures functions packages and triggers and overall program performance This book is a concise and entertaining guide that PL SQL developers will turn to again and again as they seek out ways to write higher quality code and more successful applications This book presents ideas that make the difference between a successful project and one that never gets off the ground It goes beyond just listing a set of rules and provides realistic scenarios that help the reader understand where the rules come from This book should be required reading for any team of Oracle database professionals Dwayne King President KRIDAN Consulting   **SQL Performance Tuning** Peter Gulutzan,Trudy Pelzer,2003 A very practical guide to making databases run faster and better A poorly performing database application can cost each user time and have an impact on other applications running on the same computer or the same network This book will help DBAUs and programmers improve the performance of their databases   **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

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