

Sql Tuning Guide

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T-SQL Querying - Itzik Ben-Gan
2015-02-17
T-SQL insiders help you tackle your toughest queries and query-tuning problems Squeeze maximum performance

and efficiency from every T-SQL query you write or tune. Four leading experts take an in-depth look at T-SQL's internal architecture and offer advanced practical techniques for

optimizing response time and resource usage. Emphasizing a correct understanding of the language and its foundations, the authors present unique solutions they have spent years developing and refining. All code and techniques are fully updated to reflect new T-SQL enhancements in Microsoft SQL Server 2014 and SQL Server 2012. Write faster, more efficient T-SQL code: Move from procedural programming to the language of sets and logic Master an efficient top-down tuning methodology Assess algorithmic complexity to predict performance Compare data aggregation techniques, including new grouping sets Efficiently perform data-analysis calculations Make the most of T-SQL's optimized bulk import tools Avoid date/time pitfalls that lead to buggy, poorly performing code

Create optimized BI statistical queries without additional software Use programmable objects to accelerate queries Unlock major performance improvements with In-Memory OLTP Master useful and elegant approaches to manipulating graphs About This Book For experienced T-SQL practitioners Includes coverage updated from Inside Microsoft SQL Server 2008 T-SQL Querying and Inside Microsoft SQL Server 2008 T-SQL Programming Valuable to developers, DBAs, BI professionals, and data scientists Covers many MCSE 70-464 and MCSA/MCSE 70-461 exam topics *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.

Database Tuning - Dennis Shasha
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 Sybase SQL Server - Karen Paulsell 1996 This guide is intended to provide database administrators as well as database designers and application developers with detailed information about techniques to improve Sybase

SQL Server System 11 performance in a variety of settings. Coverage of the key topic areas such as performance analysis, indexing, query optimization, and locking is included, as well as a complete chapter on advanced optimization techniques. Numerous tables containing reference and comparative information is included. The CD-ROM contains the Sybooks CD material with hyperlinks to appropriate user documentation.

Pro Oracle SQL Development - Jon Heller 2019-05-09

Write SQL statements that are more powerful, simpler, and faster using Oracle SQL and its full range of features. This book provides a clearer way of thinking about SQL by building sets, and 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. Pro Oracle SQL Development is for anyone who already knows Oracle SQL and is ready to take their skills to the next level. Many developers, analysts, testers, and administrators use Oracle databases frequently, but their queries are limited because they do not have the knowledge, experience, or right environment to help them take full advantage of Oracle's advanced features. This book will inspire you to achieve more with your Oracle SQL statements through tips for 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 covers advanced topics and shows you how to become an Oracle expert. What You'll Learn Understand the power of Oracle SQL and where to apply it Create a database development environment that is simple, scalable, and conducive to learning Solve complex problems that were previously solved in a procedural language Write large Oracle SQL statements that are powerful, simple, and fast Apply coding styles to make your SQL statements more readable Tune large Oracle SQL statements to eliminate and avoid performance problems 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. For traditional database professionals

the book offers new ways of thinking about the language they have used for so long. For modern full stack developers the book explains how a database can be much more than simply a place to store data.

Oracle PL/SQL Performance Tuning Tips & Techniques - Michael Rosenblum
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.

Inside the SQL Server Query Optimizer
- Benjamin Nevarez 2011-03

The SQL Server Query Optimizer is perceived by many to be a magic black box, transforming SQL queries into high performance execution plans in the blink of an eye through some unknowable process. The truth is that, while the Query Optimizer is indeed the highly-complex result of decades of research, learning how it

works its magic is not only possible, but immensely useful to DBAs and Developers alike. A better understanding of what the Query Optimizer does behind the scenes can help you to improve the performance of your databases and applications, and this book explains the core concepts behind how the SQL Server Query Optimizer works. With this knowledge, you'll be able to write superior queries, provide the Query Optimizer with all the information it needs to produce efficient execution plans, and troubleshoot the cases when the Query Optimizer is not giving you the best plan possible. With over 15 years of experience in the use of Relational Databases (including SQL Server since version 6.5), Benjamin has watched the SQL Server Query Optimizer grow and

evolve. His insight will leave you with an excellent foundation in the practicalities of the Query Optimizer, and everything you need to know to start tuning your queries to perfection.

OCP: Oracle9i Performance Tuning Study Guide - Joseph C. Johnson
2006-07-14

Here's the book you need to prepare for Exam 1Z0-033: Oracle9i Database: Performance Tuning. This Study Guide provides: In-depth coverage of official exam objectives Practical information on optimizing Oracle9i databases Hundreds of challenging review questions, in the book and on the CD Authoritative coverage of all exam objectives, including: Using Diagnostic and Tuning Tools Monitoring and Managing the Buffer Cache Optimizing Sort Operations

Detecting and Resolving Lock
Contention Diagnosing Shared Server
Performance Issues Using Oracle
Blocks Efficiently Tuning SQL
Statements Configuring Resource
Manager Note: CD-ROM/DVD and other
supplementary materials are not
included as part of eBook file.

**SQL Performance Tuning Tips and
Techniques Course Guide** - Dan Hotka
2019-01-17

This book is intended for a class
room environment on Oracle SQL
Performance Tuning. This book would
make a great reference guide for
ANYONE who needs to know more about
the Oracle RDBMS and performance
tuning.

Oracle SQL*Plus - Jonathan Gennick
1999

This book is the definitive guide to
SQL*Plus. If you want to take best

advantage of the power and
flexibility of this popular Oracle
tool, you need this book. SQLPlus is
an interactive query tool that is
ubiquitous in the Oracle world. It is
present in every Oracle installation
and is available to almost every
Oracle developer and database
administrator. SQLPlus has been
shipped with Oracle since at least
version 6. It continues to be
supported and enhanced with each new
version of Oracle, including Oracle8
and Oracle8i. It is still the only
widely available tool for writing SQL
scripts. Despite this wide
availability and usage, few
developers and DBAs know how powerful
SQL*Plus really is. This book
introduces SQLPlus, includes a quick
reference to all of its syntax
options, and, most important,

provides chapters that describe, in step-by-step fashion, how to perform all of the tasks that Oracle developers and DBAs want to perform with SQLPlus -- and maybe some they didn't realize they COULD perform with SQLPlus. You will learn how to write and execute script files, generate ad hoc reports, extract data from the database, query the data dictionary tables, customize your SQLPlus environment, and use the SQL*Plus administrative features (new in Oracle8i). This book is an indispensable resource for readers who are new to SQL*Plus, a task-oriented learning tool for those who are already using it, and a quick reference for every user. A table of contents follows: Preface Introduction to SQLPlus Interacting with SQLPlus Generating Reports with

SQLPlus Writing SQLPlus Scripts
Extracting Data with SQLPlus
Exploring Your Database with SQLPlus
Advanced Scripting Tuning and Timing
The Product User Profile
Administration with SQLPlus
Customizing Your SQLPlus Environment
Appendices A. SQLPlus Command Reference
B. Connect Strings and the SQLPlus Command

SQL Server Advanced Troubleshooting and Performance Tuning - Dmitri

Korotkevitch 2022-05-17

This book provides a comprehensive overview on best practices for troubleshooting and performance tuning in SQL Server. It reviews how to identify performance issues, how to troubleshoot the system in a holistic fashion, and how to properly prioritize tuning efforts in order to induce the best system performance

possible. The book also discusses interdependencies between database components, while spotlighting ways to avoid the bottlenecks that can be triggered by those dependencies. The troubleshooting and performance tuning techniques presented in the book are compatible with any version of SQL Server. They cover both on-premise and Cloud-based SQL Server installations, including Microsoft Azure SQL Databases and Amazon SQL Server RDS. Reflecting the approaches used by many high-end SQL Server consultants, *SQL Server Advanced Troubleshooting and Performance Tuning* is a valuable resource that will help readers master troubleshooting and performance tuning skills and get the best performance out of SQL Server.

SQL Tuning - Dan Tow 2003-11-19

A poorly performing database application not only costs users time, but also has an impact on other applications running on the same computer or the same network. SQL Tuning provides an essential next step for SQL developers and database administrators who want to extend their SQL tuning expertise and get the most from their database applications. There are two basic issues to focus on when tuning SQL: how to find and interpret the execution plan of an SQL statement and how to change SQL to get a specific alternate execution plan. SQL Tuning provides answers to these questions and addresses a third issue that's even more important: how to find the optimal execution plan for the query to use. Author Dan Tow outlines a timesaving method he's

developed for finding the optimum execution plan--rapidly and systematically--regardless of the complexity of the SQL or the database platform being used. You'll learn how to understand and control SQL execution plans and how to diagram SQL queries to deduce the best execution plan for a query. Key chapters in the book include exercises to reinforce the concepts you've learned. SQL Tuning concludes by addressing special concerns and unique solutions to "unsolvable problems."Whether you are a programmer who develops SQL-based applications or a database administrator or other who troubleshoots poorly tuned applications, SQL Tuning will arm you with a reliable and deterministic method for tuning your SQL queries to

gain optimal performance.

Trino: The Definitive Guide - Matt Fuller 2021-04-14

Perform fast interactive analytics against different data sources using the Trino high-performance distributed SQL query engine. With this practical guide, you'll learn how to conduct analytics on data where it lives, whether it's Hive, Cassandra, a relational database, or a proprietary data store. Analysts, software engineers, and production engineers will learn how to manage, use, and even develop with Trino. Initially developed by Facebook, open source Trino is now used by Netflix, Airbnb, LinkedIn, Twitter, Uber, and many other companies. Matt Fuller, Manfred Moser, and Martin Traverso show you how a single Trino query can combine data from multiple sources to

allow for analytics across your entire organization. Get started: Explore Trino's use cases and learn about tools that will help you connect to Trino and query data Go deeper: Learn Trino's internal workings, including how to connect to and query data sources with support for SQL statements, operators, functions, and more Put Trino in production: Secure Trino, monitor workloads, tune queries, and connect more applications; learn how other organizations apply Trino

Oracle SQL Tuning with Oracle SQLTXPLAIN - Stelios Charalambides
2017-04-05

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.

Oracle Tuning - Alexey B. Danchenkov
2006-02-01

Oracle 10g has become the most complex database ever created and Oracle tuning has become increasingly complex. This book provides a complete step-by-step approach for holistic Oracle tuning and it is the accumulated knowledge from tuning thousands of Oracle databases. Incorporating the principles of artificial intelligence, Oracle10g has developed a sophisticated mechanism for capturing and tracking database performance over time periods. This new complexity has introduced dozens of new v\$ and DBA views, plus dozens of Automatic Workload Repository (AWR) tables. The AWR and its interaction with the

Automatic Database Diagnostic Monitor (ADDM) is a revolution in database tuning. By understanding the internal workings of the AWR tables, the senior DBA can develop time-series tuning models to predict upcoming outages and dynamically change the instance to accommodate the impending resource changes. This is not a book for beginners. Targeted at the senior Oracle DBA, this book dives deep into the internals of the v\$ views, the AWR table structures and the new DBA history views. Packed with ready-to-run scripts, you can quickly monitor and identify the most challenging performance issues.

Oracle 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 SQL High-performance Tuning - Guy Harrison 1997

This is a comprehensive guide to writing SQL code that's optimized for performance. It includes a unique set of software tools on CD-ROM for benchmarking SQL performance.
SQL Server Query Performance Tuning -

Grant Fritchey 2014-09-16

Queries not running fast enough?
Wondering about the in-memory database features in 2014? Tired of phone calls from frustrated users? Grant Fritchey's book SQL Server Query Performance Tuning is the answer to your SQL Server query performance problems. The book is revised to cover the very latest in performance optimization features and techniques, especially including the newly-added, in-memory database features formerly known under the code name Project Hekaton. This book provides the tools you need to approach your queries with performance in mind. SQL Server Query Performance Tuning leads you through understanding the causes of poor performance, how to identify them, and how to fix them. You'll learn to

be proactive in establishing performance baselines using tools like Performance Monitor and Extended Events. You'll learn to recognize bottlenecks and defuse them before the phone rings. You'll learn some quick solutions too, but emphasis is on designing for performance and getting it right, and upon heading off trouble before it occurs. Delight your users. Silence that ringing phone. Put the principles and lessons from SQL Server Query Performance Tuning into practice today. Covers the in-memory features from Project Hekaton Helps establish performance baselines and monitor against them Guides in troubleshooting and eliminating of bottlenecks that frustrate users

Oracle SQL Tuning with Oracle SQLTXPLAIN - Stelios Charalambides

2013-04-13

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.

Quick Start Guide to Oracle Query Tuning: Tips for Dbas and Developers

- Rich Niemiec 2015-02-11

Oracle SQL Performance Tuning and Optimization - Kevin Meade 2014-09-16

Written by a Senior Database Administrator who has worked with the Oracle RDBMS for thirty years, this is a book which teaches the skill of SQL Tuning for the Oracle Database. Not a list of one-off tricks or tips, nor a glossing over of topics; this book offers an in-depth process covering discovery, analysis, and problem resolution. Learn the science behind SQL Tuning. Learn and apply the FILTERED ROWS PERCENTAGE Cardinality based method of tuning Determine a query's Driving Table and Join Order Construct Query Diagrams,

Data Models, and Join Trees Build and use Count / Filter / and Reconstruction Queries Identify Waste in a Query Execution Plan Zero in on Cardinality Divergence using Estimated vs. Actuals Use the ACCESS / FILTER / COVERAGE strategy to build indexes for Problem Queries Exploit THE 2% RULE in analyzing Access method and Join method Classify queries as Precision Style or Warehouse Style Understand Hash Join mechanics and make Hash Joins go faster Make HINTS work as Detection Tools rather than clubs Avoid early Database Design flaws Manage Statistics and deal with common Statistics problems (NDV, Uniform Distribution, Independence, Dynamic Sampling) (Staleness, Skew, Dependence, Defaulting, Out-Of-Bounds, Transiency, Bloat) Perfect

your Question Based Analysis Technique and more Included are: a special chapter for EXADATA, a LAB which demonstrates the cardinality based process of SQL Tuning, and twenty three magical SQL scripts that make the process of SQL Tuning easy to do. Learn the skill of SQL Tuning as taught by an expert who does it for a living, and become the go-to specialist in your company. Chapter 1: DRIVING TABLE and JOIN ORDER Chapter 2: Ways to Use a Query Execution Plan Chapter 3: The Best Indexes for a Query Chapter 4: JOINS Chapter 5: HINTS Chapter 6: BASICS Chapter 7: ROW COUNTS and RUN TIMES Chapter 8: EXADATA LAB: Reverse Engineering the QEP Appendix: Know Your Scripts Scripts for analyzing queries and plans Scripts for examining an active database Scripts

for looking at metadata showplan
showplanshort showplanconstraints
showplancountqueries
showplandatamodel
showplandrivingtable
showplanfilterqueries
showplanfrpspreadsheetcode
showplanindexes showplannumrows
showplanquerydiagram showplantables
showplantablesunique
loadplanfromcache loadplanfromhist
showtopcpu showowner showindexes
showconstraints showcolstats
showhistograms showallscanrates
showallworkareas It's all about the
Cardinalities
**OCP: Oracle 10g Administration II
Study Guide** - Doug Stuns 2006-02-20
Here's the book you need to prepare
for the Oracle Database 10g
Administration II exam, 1Z0-043. This
Study Guide was developed to meet the

exacting requirements of today's
Oracle certification candidates. In
addition to the consistent and
accessible instructional approach
that has earned Sybex the "Best Study
Guide" selection in CertCities
Readers' Choice Awards for two
consecutive years, this book
provides: Clear and concise
information on advanced database
administration with Oracle 10g
Practical examples and insights drawn
from the authors' real-world
experiences Leading-edge exam
preparation software, including a
test engine and electronic flashcards
You'll also find authoritative
coverage of key exam topics,
including: Configuring Recovery
Manager Understanding the Flashback
Database Recovering from User Errors
Working with Globalization Support

Using the Scheduler to Automate Tasks
Monitoring and Managing Storage
Securing the Oracle Listener Look to
Sybex for the knowledge and skills
needed to succeed in today's
competitive IT marketplace.

*Oracle Database 11g The Complete
Reference* - Kevin Loney 2008-10-15
The Definitive Guide to Oracle
Database 11g Get full details on the
powerful features of Oracle Database
11g from this thoroughly updated
Oracle Press guide. Oracle Database
11g: The Complete Reference explains
how to use all the new features and
tools, execute powerful SQL queries,
construct PL/SQL and SQL*Plus
statements, and work with large
objects and object-relational
databases. Learn how to implement the
latest security measures, tune
database performance, and deploy grid

computing techniques. An invaluable
cross-referenced appendix containing
Oracle commands, keywords, features,
and functions is also included.
Install Oracle Database 11g or
upgrade from an earlier version
Create database tables, sequences,
indexes, views, and user accounts
Construct SQL statements, procedures,
queries, and subqueries Optimize
security using virtual private
databases and transparent data
encryption Import and export data
using SQL*Loader and Oracle Data Pump
Use SQL replay, change management,
and result caching Avoid human errors
using flashback and automatic undo
management Build and tune PL/SQL
triggers, functions, and packages
Develop database applications using
Java, JDBC, and XML Optimize
availability and scalability with

Oracle Real Application Clusters
SQL Server 2017 Administration Inside
Out - William Assaf 2018-02-26
Conquer SQL Server 2017
administration—from the inside out
Dive into SQL Server 2017
administration—and really put your
SQL Server DBA expertise to work.
This supremely organized reference
packs hundreds of timesaving
solutions, tips, and workarounds—all
you need to plan, implement, manage,
and secure SQL Server 2017 in any
production environment: on-premises,
cloud, or hybrid. Four SQL Server
experts offer a complete tour of DBA
capabilities available in SQL Server
2017 Database Engine, SQL Server Data
Tools, SQL Server Management Studio,
and via PowerShell. Discover how
experts tackle today's essential
tasks—and challenge yourself to new

levels of mastery. • Install,
customize, and use SQL Server 2017's
key administration and development
tools • Manage memory, storage,
clustering, virtualization, and other
components • Architect and implement
database infrastructure, including
IaaS, Azure SQL, and hybrid cloud
configurations • Provision SQL Server
and Azure SQL databases • Secure SQL
Server via encryption, row-level
security, and data masking •
Safeguard Azure SQL databases using
platform threat protection,
firewalling, and auditing • Establish
SQL Server IaaS network security
groups and user-defined routes •
Administer SQL Server user security
and permissions • Efficiently design
tables using keys, data types,
columns, partitioning, and views •
Utilize BLOBs and external, temporal,

and memory-optimized tables • Master powerful optimization techniques involving concurrency, indexing, parallelism, and execution plans • Plan, deploy, and perform disaster recovery in traditional, cloud, and hybrid environments For Experienced SQL Server Administrators and Other Database Professionals • Your role: Intermediate-to-advanced level SQL Server database administrator, architect, developer, or performance tuning expert • Prerequisites: Basic understanding of database administration procedures

1Z0-117, Oracle Database 11G Release 2 - Matthew Morris 2013-03-29

This Study Guide is targeted at IT professionals who are working towards the OCE certification: Oracle Certified Expert, Oracle Database 11g Release 2 SQL Tuning. The book

provides information covering all of the exam topics for the Oracle certification exam: "1Z0-117: Oracle Database 11g Release 2: SQL Tuning." The books in the Oracle Certification Prep series are built in lockstep with the test topics provided by Oracle Education's certification program. Each book is intended to provide the information that will be tested in a clean and concise format. The guides introduce the subject you'll be tested on, follow that with the information you'll need to know for it, and then move on to the next topic. They contain no drills or unrealistic self-tests to bump the page count without adding value. The series is intended to provide a concentrated source of exam information that is compact enough to be read through multiple times. This

series is ideal for experienced Oracle professionals that are familiar with the topic being tested, but want a means to rapidly reinforce their existing skills and bridge any gaps in their knowledge. It is also an excellent option as a second source of information for candidates pursuing certification.

Oracle SQL*Loader - Jonathan Gennick 2001

A complete guide to SQL*Loader, a utility used to move data from external files into an Oracle database, offers step-by-step instruction in the various applications of SQL*Loader, providing a task-oriented approach that covers the latest Oracle 8 and Oracle 8i features. Original.

(Beginner/Intermediate)

DB2 SQL Tuning Tips for z/OS

Developers - Tony Andrews 2012-10-15

The Definitive Solutions-Oriented Guide to IBM® DB2® for z/OS®: Now Fully Updated for Both v9 and v10! The largest database tuning performance gains can often be obtained from tuning application code, and applications that use SQL to retrieve data are the best candidates for tuning. This well-organized, easy-to-understand reference brings together more than 100 SQL-related skills and techniques that any developer can use to build and optimize DB2 applications for consistently superior performance. DB2 tuning expert Tony Andrews (“Tony the Tuner”) draws on more than 20 years of DB2-related experience, empowering you to take performance into your own hands, whether you’re writing new software or tuning

existing systems. Tony shows you exactly how to clear bottlenecks, resolve problems, and improve both speed and reliability. This book fully reflects the latest SQL programming best practices for DB2 V9 and DB2 V10 on z/OS: techniques that are taught in no other book and are rarely covered in general DB2 SQL courses. Drawing on his extensive consulting experience and highly praised training with Themis Inc., Tony also presents practical checklists and an invaluable 15-step methodology for optimizing virtually any DB2 application. Coverage includes Empowering developers on knowing what to do and where to look in resolving performance problems in queries or programs Providing many programming and SQL coding examples Establishing standards and guidelines

that lead to high-performance SQL Implementing time-efficient code walkthroughs to ensure that your standards are followed Focusing on the small number of SQL statements that consume the most resources Identifying simple solutions that deliver the most sizable benefits Optimizing performance by rewriting query predicates more efficiently Providing a better understanding of SQL optimization and Runstat statistics Recognizing opportunities to tweak your code more effectively than the Optimizer Optimizing SQL code with COBOL applications Efficiently checking for the existence of data, rows, or tables Using Runstats' newest capabilities to consistently optimize paths to data Oracle High-Performance SQL Tuning -

Donald K. Burleson 2001-08-17
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. 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.
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 I/O • Tuning Real Application Cluster (RAC) databases guyharrison.net informit.com/ph

Db2 Sql 75+ Tuning Tips for Developers - Tony Andrews 2012-01-01
DB2 SQL developers now have a handy reference guide with tuning tips to improve performance in queries, programs and applications. Poorly coded programs or improperly coded SQL statements are often the culprit causing poor performance. Many developers working with an IBM DB2 relational database will benefit from

this guide, entitled 'DB2 SQL 75+ Tuning Tips For Developers'. The book's focus is to increase developers' knowledge in the ways of performance and tuning in an IBM DB2 relational database environment. In an organized and easy-to-understand format, the guide provides development and SQL tips that will help developers improve performance problems. By modifying application and SQL code, understanding Runstat options, or adding and altering indexes, there are many things that developers can do to resolve performance issues. This book provides development tips and suggestions, along with many SQL coding examples, all with the purpose of gaining better performance.

Sybase Performance Tuning - Shaibal Roy 1996

This text offers a detailed look at Sybase SQL Server Performance Tuning and a sneak peek at Sybase System 11 performance features. It compares and contrasts all recent major releases of Sybase SQL Server

Oracle Database XE 11gR2 Jump Start Guide - Asif Momen 2012-07-10

Build and manage your Oracle Database XE environment with this fast paced, practical guide

OCP: Oracle Database 12c Administrator Certified Professional Study Guide - Robert G. Freeman 2014-08-08

An updated guide for an updated certification exam! As the most popular database software in the world, Oracle Database 12c has been updated for the first time in nearly six years and the changes are significant. This study guide reviews

how Oracle 12c allows multiple instances to be used simultaneously via the cloud. You'll sharpen your skills to prepare for the three levels of certification: Oracle Certified Associate, Oracle Certified Professional, and Oracle Certified Master. Workbook exercise appendix, test engine, chapter review questions, electronic flashcards, searchable PDF glossary, and two bonus practice exams all help to enhance your preparation to take the Oracle 12c exam. Addresses such topics as: database architecture, configuring and recoverability, configuring backup specifications, and performing user-managed backup and recovery Reviews how to use RMAN to create backups, perform recovery, and duplicate a database Looks at performing tablespace point-in-time

recovery and using flashback technology Covers diagnosing the database, managing memory, managing resources, and automating tasks Focusing 100 percent on the exam objectives, OCP: Oracle Database 12c Administrator Certified Professional Study Guide is designed for those who feel they are ready to attempt this challenging exam.

Sybase SQL Server Performance and Tuning Guide - Sybase, Inc 1996

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
SQL Server Query Performance Tuning Distilled - Sajal Dam 2007-03-01
* A completely revised edition of a book that is highly-regarded in the community (as evidenced by Amazon reviews and other customer feedback).
* The only comprehensive, practical guide to performance optimization techniques for SQL Server applications. * Essential reading for any DBA or developer responsible for the eprformance of an exisiting SQL Server system, or the design of a new one.

SQL Performance Tuning - Peter Gulutzan 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 Database 12c Performance Tuning Recipes - Sam Alapati
2014-01-21

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
SQL Performance Explained - Markus Winand 2012

OCA: Oracle 10g Administration I Study Guide - Chip Dawes 2006-02-20
Here's the book you need to prepare for the Oracle Database 10g Administration I exam, 1Z0-042. This Study Guide was developed to meet the exacting requirements of today's Oracle certification candidates. In addition to the consistent and accessible instructional approach that has earned Sybex the "Best Study Guide" selection in CertCities

Readers Choice Awards for two consecutive years, this book provides: Clear and concise information on database administration with Oracle 10g Practical examples and insights drawn from the authors' real-world experiences Leading-edge exam preparation software, including a test engine and electronic flashcards You'll also find authoritative coverage of key exam topics, including: Installing Oracle Database 10g Software Creating and Controlling Oracle Databases Administering Users Managing Schema Objects and Data Implementing Oracle Security Features Monitoring Performance Performing Database Backup and Recovery Look to Sybex for the knowledge and skills needed to succeed in today's competitive IT marketplace