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**Business Optimization** SQL Server 2017 Query Performance Tuning **Hibernate Tips** **Marketing Strategy For Hotel Business** *DB2 SQL Tuning Tips for z/OS Developers* Accelerating MATLAB Performance Oracle SQL Performance Tuning and Optimization **C++ Footprint and Performance Optimization** **Db2 Sql 75+ Tuning Tips for Developers** **Secret Oracle - Unleashing the Full Potential of the Oracle DBMS by Leveraging Undocumented Features** **Unity 5 Game Optimization** *Dynamics AX Performance Optimization Guide* *The Art of Performance Engineering* *Optimizing Java* **Ruby Performance Optimization**

You don't have to accept slow Ruby or Rails performance. In this comprehensive guide to Ruby optimization, you'll learn how to write faster Ruby code--but that's just the beginning. See exactly what makes Ruby and Rails code slow, and how to fix it. Alex Dymo will guide you through perils of memory and CPU optimization, profiling, measuring, performance testing, garbage collection, and tuning. You'll find that all those "hard" things aren't so difficult after all, and your code will run orders of magnitude faster. This is the first book ever that consolidates all the Ruby performance optimization advice in one place. It's your comprehensive guide to memory optimization, CPU optimization, garbage collector tuning, profiling, measurements, performance testing, and

more. You'll go from performance rookie to expert. First, you'll learn the best practices for writing Ruby code that's easy not only on the CPU, but also on memory, and that doesn't trigger the dreaded garbage collector. You'll find out that garbage collection accounts for 80% of slowdowns, and often takes more than 50% of your program's execution time. And you'll discover the bottlenecks in Rails code and learn how selective attribute loading and preloading can mitigate the performance costs of ActiveRecord. As you advance to Ruby performance expert, you'll learn how to profile your code, how to make sense out of profiler reports, and how to make optimization decisions based on them. You'll make sure slow code doesn't creep back into your Ruby application by writing performance tests, and you'll learn the right way to benchmark Ruby. And finally, you'll dive into the Ruby interpreter internals to really understand why garbage collection makes Ruby so slow, and how you can tune it up.

**What You Need:** Some version of Ruby. The advice from this book applies to all modern Ruby versions from 1.9 to 2.2. 80% of the material will also be useful for legacy Ruby 1.8 users, and there is 1.8-specific advice as well. If you're a SQL Server DBA who wants to get proactive and organized with performance monitoring and tuning, then this book is for you. Written by a widely read DBA and SQL Server internals expert, Robin Schumacher offers real-world advice, an easy to follow performance strategy, and lots of SQL diagnostics scripts in a superb book that shows how to quickly diagnose and optimize SQL Server performance problems. Robin Schumacher has written the internals for

some of the world's most powerful SQL Server performance software, and now he shows you how to make your database servers run as fast as possible. Performance Optimization of Numerically Intensive Codes offers a comprehensive, tutorial-style, hands-on, introductory and intermediate-level treatment of all the essential ingredients for achieving high performance in numerical computations on modern computers. The authors explain computer architectures, data traffic and issues related to performance of serial and parallel code optimization exemplified by actual programs written for algorithms of wide interest. The unique hands-on style is achieved by extensive case studies using realistic computational problems. The performance gain obtained by applying the techniques described in this book can be very significant. The book bridges the gap between the literature in system architecture, the one in numerical methods and the occasional descriptions of optimization topics in computer vendors' literature. It also allows readers to better judge the suitability of certain computer architecture to their computational requirements. In contrast to standard textbooks on computer architecture and on programming techniques the book treats these topics together at the level necessary for writing high-performance programs. The book facilitates easy access to these topics for computational scientists and engineers mainly interested in practical issues related to efficient code development. Oracle ACE Alumnus Christopher Lawson has solved over 10,000 Oracle performance problems over the past two decades. In this book, Chris provides 100 of his all-time favorite tips. The

tips cover the most recent performance techniques available, including Oracle 12c. Whether you are a beginner at performance tuning, or a veteran DBA, **ORACLE PERFORMANCE TUNING EXPERT** is sure to offer you lots of powerful ideas. Performance is critical to the success of any website, and help with using today's new tools is key. In this remarkable guide, 32 leading web performance experts offer practical tips, techniques, and advice for optimizing your site's user experience. Originally written for an online calendar, this collection of articles will inspire you to squeeze every ounce of performance from your site—whether you're a web developer, mobile developer, or web designer. Check the table of contents and you'll be convinced. In order of appearance, Web Performance Daybook authors include: Patrick Meenan Nicholas Zakas Guy Podjarny Stoyan Stefanov Tim Kadlec Brian Pane Josh Fraser Steve Souders Betty Tso Israel Nir Marcel Duran Éric Daspét Alois Reitbauer Matthew Prince Buddy Brewer Alexander Podelko Estelle Weyl Aaron Peters Tony Gentilcore Matthew Steele Bryan McQuade Tobie Langel Billy Hoffman Joshua Bixby Sergey Chernyshev JP Castro Pavel Paulau David Calhoun Nicole Sullivan James Pearce Tom Hughes-Croucher Dave Artz A guide to troubleshooting and correcting SQL Server performance problems, this book provides a methodology for use in analyzing any SQL Server database. The most recent advances in SQL Server 8i and 9i are covered to make a SQL Server database run as fast as possible. Properly using ratio-based and bottleneck analysis, designing a fast-running database from the ground up, and

establishing methods for making storage and reorganization problems a thing of the past are demonstrated. Also presented are new techniques for monitoring and optimizing memory usage and improved methods for uncovering session-related bottlenecks. Tips, tricks, and little-known methods used by professional SEO consultants to rank in some of the most competitive search phrases

Search engine optimization (SEO) is the process of creating, formatting and promoting web pages in a manner that ensures that they are ranked highly for chosen keyword phrases after a user performs a Web search. This unique book taps the relatively unknown market of advanced SEO knowledge, and reveals secrets used by only the best SEO consultants. You'll take your Internet marketing skills to the next level as you gain a thorough understanding of standard SEO techniques such as on-page optimization, off-page optimization, and link building. Packed with real-world examples, this essential guide demonstrates how real SEO consultants work with Fortune 500 companies to get the results they desire.

Coverage includes: Understanding Search Engine Optimization  
Relearning How You See the Web  
Picking the Right SEO Tools  
Finding SEO Problems  
Solving SEO Problems  
SEO Best Practices  
The SEO Consulting Process  
Comprehensive Site Audit (Informational Website)  
Comprehensive Site Audit (E-Commerce Website)  
Understanding the SEO Industry  
Search Engine Verticals  
Optimizing for Alternative Search Engines  
Setting Up a Testing Platform  
SEO Resources  
Attending SEO Conferences

The purpose of this book is to make aware

about what probable causes are & how to troubleshoot when we face any kind of SQL Server database performance issues. Performance tuning means to optimize the performance of SQL Server/ database/ instance by adjusting/ identifying the various bottlenecks causing degradation in database. If SQL Server instance/ database is not properly tuned or optimized, obviously we will face issues like slowness, bad performance of database which relatively affect performance of related application as well. So it's quite mandatory to have your database or SQL Server instance properly tuned to perform optimally. Whenever there is any database/ SQL Server performance issues, there might be various parameters/ factors included which might cause database/ SQL Server performance degradation. Data Networks builds on the foundation laid in Kenyon's first book, High-Performance Data Network Design, with expanded coverage of routing, security, multicasting, and advanced design topics such as performance optimization and fault tolerance. Kenyon provides strategies for overcoming some of the most challenging problems in network design and management. He provides clear, specific solutions for day-to-day problems facing network designers and IT managers. In this book, you will find optimization advice from an experienced practitioner that you can put to work in your own system. As security and network performance become more and more critical to a company's success, the system administrator's job becomes even more difficult. Use the principles, tips, and techniques Kenyon offers here to enhance and protect the flow of data within

your enterprise. · Covers Addressing, Routing, Multicasting, and Quality of Service (QoS) design for enterprise network design. · Extensive coverage on relevant Security Technologies and Virtual Private Network (VPN) implementation · Provides advanced coverage on Risk Assessment, Availability Analysis, Fault Tolerance, Disaster Recovery, and Network Optimization. The MATLAB® programming environment is often perceived as a platform suitable for prototyping and modeling but not for "serious" applications. One of the main complaints is that MATLAB is just too slow. Accelerating MATLAB Performance aims to correct this perception by describing multiple ways to greatly improve MATLAB program speed. Packed with thousands of helpful tips, it leaves no stone unturned, discussing every aspect of MATLAB. Ideal for novices and professionals alike, the book describes MATLAB performance in a scale and depth never before published. It takes a comprehensive approach to MATLAB performance, illustrating numerous ways to attain the desired speedup. The book covers MATLAB, CPU, and memory profiling and discusses various tradeoffs in performance tuning. It describes both the application of standard industry techniques in MATLAB, as well as methods that are specific to MATLAB such as using different data types or built-in functions. The book covers MATLAB vectorization, parallelization (implicit and explicit), optimization, memory management, chunking, and caching. It explains MATLAB's memory model and details how it can be leveraged. It describes the use of GPU, MEX, FPGA, and other forms of compiled code, as well as



techniques for speeding up deployed applications. It details specific tips for MATLAB GUI, graphics, and I/O. It also reviews a wide variety of utilities, libraries, and toolboxes that can help to improve performance. Sufficient information is provided to allow readers to immediately apply the suggestions to their own MATLAB programs. Extensive references are also included to allow those who wish to expand the treatment of a particular topic to do so easily. Supported by an active website, and numerous code examples, the book will help readers rapidly attain significant reductions in development costs and program run times. When you use Hibernate in your projects, you quickly recognize that you need to do more than just add @Entity annotations to your domain model classes. Real-world applications often require advanced mappings, complex queries, custom data types and caching. Hibernate can do all of that. You just have to know which annotations and APIs you need to use. Hibernate Tips - More than 70 solutions to common Hibernate problems shows you how to efficiently implement your persistence layer with Hibernate's basic and advanced features. Each Hibernate Tip consists of one or more code samples and an easy to follow step-by-step explanation. You can also download an example project with executable test cases for each Hibernate Tip. Throughout this book, you will get more than 70 ready-to-use solutions that show you how to: - Define standard mappings for basic attributes and entity associations. - Implement your own attribute mappings and support custom data types. - Use Hibernate's Java 8 support and other proprietary features. -

Read data from the database with JPQL, Criteria API, and native SQL queries. - Call stored procedures and database functions. This book is for developers who are already working with Hibernate and who are looking for solutions for their current development tasks. It's not a book for beginners who are looking for extensive descriptions of Hibernate's general concepts. The tips are designed as self-contained recipes which provide a specific solution and can be accessed when needed. Most of them contain links to related tips which you can follow if you want to dive deeper into a topic or need a slightly different solution. There is no need to read the tips in a specific order. Feel free to read the book from cover to cover or to just pick the tips that help you in your current project. Performance simply matters.

Technology may allow us to "go bigger", but maybe not necessarily be better when it comes to performance. Now is the time to utilize the amazing tools that are available for making websites faster, and to learn how to improve user experience and satisfaction. This is a practical collection of tutorials on front-end website performance for web developers. It's packed with useful, real world hints and tips that you can use on your sites today. It contains: Which Browsers Should Your Website Support? by Craig Buckler Are Your WordPress Themes Flexible or Fast? by Maria Antonietta Perna Five Techniques to Lazy Load Images for Website Performance by Maria Antonietta Perna Optimizing CSS: ID Selectors and Other Myths by Ivan Curic Optimizing CSS: Tweaking Animation Performance with DevTools by Maria Antonietta Perna Lightning Fast

Websites with Prefetching by Maria Antonietta Perna

Optimizing Web Fonts for Performance: the State of the Art

by Maria Antonietta Perna JavaScript Performance

Optimization Tips: An Overview by Ivan Curic 7

Performance Tips for Jank-free JavaScript Animations by

Maria Antonietta Perna What Is a CDN and How Does It

Work? by Bruno Skvorc This book is for all front-end  
developers that want to build sites and apps that run faster.

You'll need to be familiar with HTML and CSS and have a  
reasonable level of understanding of JavaScript in order to

follow the discussion. 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. If you are

looking for practical, easy to implement measures to enhance

your site's performance and improve speed and page load times, yet are still unsure where to start or how to develop your strategy, this book on Web Performance Optimization is the answer. Focusing on practical areas including page speed optimization, compression, minification, localization, SEO, and image optimization, this comprehensive book has several tips and examples that will walk you through the process of understanding web performance requirements for your site and formulating an implementation process to meet those standards. Improving your website performance starts from the very first day you launch it. And since your business marketing and operation plans might constantly expand and evolve, committing to better user experience and search engine optimization requires consistency and a systematic approach. True optimization has to be regarded as a daily duty that involves monitoring changes in rates, rebranding, and redefining the site regularly. With the help of this book, you will understand essential web performance principles that will enable you to write clean code from scratch and optimize existing code with performance in mind. By mastering simple steps of website optimization, you can expect to put your product on the map and enable heavier and more organic traffic in less time. A particular area of focus for this book is technical optimization. This book will guide you through standard modules and methods that you may implement to raise off-page efficiency, such as learning how to monitor sitemap errors, console errors, keep your code and URL clean, and ensure good search engine crawlability. In order to serve your target audience with

materials they would like, you need to understand who your viewers are—this book helps you unravel just that by discussing analytics tools at length. Whether you are a new developer or an experienced webmaster, you will find reliable and insightful information to develop your web performance skills and knowledge. In short, this book can definitely make web testing and optimization easy for you. It will serve as a valuable companion for anyone looking to get into the world of Web Performance Optimization.

**What You Will Learn**

- ?How to optimize your site for better performance
- ?How to write clean code from scratch and optimize existing code for performance
- ?How to increase search traffic and improve speed and page load times
- ?How to properly optimize images
- ?How to ensure server-side optimization is done correctly, even if you are not a server admin

**Who Is This Book For**

Web developers and webmasters responsible for managing and improving site performance; server admins; and others seeking to enhance web performance.

**About the Author**

Sufyan bin Uzayr is a writer, coder, and entrepreneur with more than a decade of experience in the industry. He has authored several books in the past, pertaining to a diverse range of topics, ranging from History to Computers/IT. Sufyan is the Director of Parakozm, a multinational IT company specializing in EdTech solutions. He also runs Zeba Academy, an online learning and teaching vertical with a focus on STEM fields. Sufyan specializes in a wide variety of technologies, such as JavaScript, Dart, WordPress, Drupal, Linux, and Python. He holds multiple degrees, including ones in Management, IT,

Literature, and Political Science. Sufyan is a digital nomad, dividing his time between four countries. He has lived and taught in universities and educational institutions around the globe. Sufyan takes a keen interest in technology, politics, literature, history, and sports, and in his spare time, he enjoys teaching coding and English to young students. Learn more at [sufyanism.com](http://sufyanism.com)

If you're a SQL Server DBA who wants to get proactive and organized with performance monitoring and tuning, then you've come to the right place. Written by one of the world's top DBAs and SQL Server internals experts, Robin Schumacher offers real-world advice, an easy-to-follow performance strategy, and lots of SQL diagnostics scripts in a superb book that shows how to quickly diagnose and optimize SQL Server performance problems. As a Vice President at Embarcadero Technologies, Robin Schumacher has written the internals for some of the world's most powerful SQL Server performance software, and now he shows you how to use the most recent advancements in SQL Server 2005, as well as SQL Server 7 and 2000, to make your database servers run as fast as possible. Identify and fix causes of poor performance. You will learn Query Store, adaptive execution plans, and automated tuning on the Microsoft Azure SQL Database platform. Anyone responsible for writing or creating T-SQL queries will find valuable the insight into bottlenecks, including how to recognize them and eliminate them. This book covers the latest in performance optimization features and techniques and is current with SQL Server 2017. If your queries are not running fast enough and you're tired of phone

calls from frustrated users, then this book is the answer to your performance problems. SQL Server 2017 Query Performance Tuning is about more than quick tips and fixes. You'll learn to be proactive in establishing performance baselines using tools such as Performance Monitor and Extended Events. You'll 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. The goal is to head off trouble before it occurs. What You'll Learn: Use Query Store to understand and easily change query performance Recognize and eliminate bottlenecks leading to slow performance Deploy quick fixes when needed, following up with long-term solutions Implement best practices in T-SQL to minimize performance risk Design in the performance that you need through careful query and index design Utilize the latest performance optimization features in SQL Server 2017 Protect query performance during upgrades to the newer versions of SQL Server. 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. Performance Engineering is the core of all software products!! By improving the performance of their application, an enterprise can provide better user experience which leads to increased revenue. The cause of most performance issues is bottlenecks around CPU Utilization, Memory Access and Input/Output devices. There are methods to identify different bottlenecks from the codebase and tips to improve performance in Web Server (IIS, Apache), Application Server (Jboss, Weblogic, Websphere, Tomcat, .Net) and Database Server(MSSQL, Oracle) coupled with Client side optimization. In this book, we will be giving tips on how to optimize your application



and its various bottlenecks to obtain best performance for better user experience. 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

This book discusses modern hotel marketing management with various tricks and secrets to improve hotel performance that marketers rarely know today. Digital marketing and conventional marketing are combined with the right strategy to win the competition without requiring large investments and minimal risk. Everything is discussed neatly by

practitioners and academics in the hotel business and tourism industry. In general, this book discusses 1. Marketing Mix Theory and Practice 2. Segmentation, Targeting, and Positioning 3. Theory and Practice of Consumer Behavior 4. New Product Development 5. Modern Marketing Channels 6. Hotel Vs. Online Travel Agency 7. Optimizing Hotel Website Performance 8. Search Engine Optimization for Hotel Websites 9. Electronic Mail Marketing 10.

Competitive Strategy & Alliances Note: This eBook is a guide and serves as a first guide. In addition, please get expert advice Remember when an optimized website was one that merely didn't take all day to appear? Times have changed. Today, website optimization can spell the difference between enterprise success and failure, and it takes a lot more know-how to achieve success. This book is a comprehensive guide to the tips, techniques, secrets, standards, and methods of website optimization. From increasing site traffic to maximizing leads, from revving up responsiveness to increasing navigability, from prospect retention to closing more sales, the world of 21st century website optimization is explored, exemplified and explained. Website Optimization combines the disciplines of online marketing and site performance tuning to attain the competitive advantage necessary on today's Web. You'll learn how to improve your online marketing with effective paid and natural search engine visibility strategies, strengthened lead creation and conversion to sales methods, and gold-standard ad copywriting guidelines. Plus, your increased site speed, reduced download footprint, improved

reliability, and improved navigability will work synergistically with those marketing methods to optimize your site's total effectiveness. In this book for business and IT managers, author Andrew King, president of Website Optimization, LLC, has assembled experts in several key specialties to teach you: Search engine optimization -- addressing best (and worst) practices to improve search engine visibility, including step-by-step keyword optimization guidelines, category and tag cloud creation, and guerilla PR techniques to boost inbound links and improve rankings Pay-per-click optimization -- including ad copywriting guidelines, setting profit-driven goals, calculating and optimizing bids, landing page optimization, and campaign management tips Optimizing conversion rates -- increasing leads with site landing page guidelines, such as benefit-oriented copy, credibility-based design, value hierarchies, and tips on creating unique selling propositions and slogans Web performance tuning -- optimizing ways to use (X)HTML, CSS, and Ajax to increase speed, reduce your download footprint, and increase reliability Advanced tuning -- including client-side techniques such as on-demand content, progressive enhancement, and inline images to save HTTP requests. Plus server-side tips include improving parallelism, using cache control, browser sniffing, HTTP compression, and URL rewriting to remap links and preserve traffic Web metrics -- illustrating the best metrics and tools to gather details about visitors and measure web conversion and success rates. Covering both search marketing metrics and web performance measures including Pathloss and

waterfall graphs Website Optimization not only provides you with a strategy for success, it also offers specific techniques for you and your staff to follow. A profitable website needs to be well designed, current, highly responsive, and optimally persuasive if you're to attract prospects, convert them to buyers, and get them to come back for more. This book describes precisely what you need to accomplish to achieve all of those goals. With this book, you'll be prepared for any and all day-to-day problems. Detailed, real-life examples describe the performance analysis of Dynamics AX systems and the implementation of effective tuning measures. Whether the issue is with hardware, X++ programs, or database access, you'll learn about potential performance bottlenecks, along with corresponding instructions and valuable tips. Simple and proven techniques to quickly speed up your ASP.NET website. Tips, tricks, and little-known methods used by professional SEO consultants to rank in some of the most competitive search phrases

Search engine optimization (SEO) is the process of creating, formatting and promoting web pages in a manner that ensures that they are ranked highly for chosen keyword phrases after a user performs a Web search. This unique book taps the relatively unknown market of advanced SEO knowledge, and reveals secrets used by only the best SEO consultants. You'll take your Internet marketing skills to the next level as you gain a thorough understanding of standard SEO techniques such as on-page optimization, off-page optimization, and link building. Packed with real-world examples, this essential guide demonstrates how real SEO

consultants work with Fortune 500 companies to get the results they desire. Coverage includes: Understanding Search Engine Optimization Relearning How You See the Web Picking the Right SEO Tools Finding SEO Problems Solving SEO Problems SEO Best Practices The SEO Consulting Process Comprehensive Site Audit (Informational Website) Comprehensive Site Audit (E-Commerce Website) Understanding the SEO Industry Search Engine Verticals Optimizing for Alternative Search Engines Setting Up a Testing Platform SEO Resources Attending SEO Conferences

Secret ORACLE is the definitive guide to undocumented and partially documented features of the ORACLE database server. This book will improve your efficiency as an ORACLE database administrator and enable you to master more difficult administrative, tuning, and troubleshooting tasks than you ever thought possible. Topics covered include: The MERITS performance optimization method, which extends the state-of-the-art wait event tuning paradigm. Controlling processes of an ORACLE instance with the fragmentarily documented ORADEBUG command to trace SQL statements as well as wait events and dump process state, call stack, and hang analysis information. Tracing the cost based optimizer to understand its cost calculations and decisions. Understanding hidden parameters that govern Automatic PGA Memory Management. Leveraging undocumented features of the Oracle10g/11g scheduler and other partially or fully undocumented PL/SQL packages, such as DBMS\_SYSTEM, DBMS\_SUPPORT, and DBMS\_UTILITY. 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. 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 clues 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 This guide fills in the knowledge gaps for intermediate-advanced programmers who have been trained without regard to software performance from a program level. Information on advanced tips and cautions can prepare programmers for cross-platform or multilanguage projects. Get well-versed with ready-to-use techniques for creating high-performance queries and applications Key Features • Speed up queries and dramatically improve application

performance by both understanding query engine internals and practical query optimization • Understand how the query optimizer works • Learn about intelligent query processing and what is new in SQL Server 2022

**Book Description** SQL Server is a relational database management system developed by Microsoft. As a database server, it is a software product with the primary function of storing and retrieving data as requested by other software applications. This book starts by describing the inner workings of the query optimizer, and will enable you to use this knowledge to write better queries and provide the query engine with all the information it needs to produce efficient execution plans. As you progress, you'll get practical query optimization tips for troubleshooting underperforming queries. The book will also guide you through intelligent query processing and what is new in SQL Server 2022. Query performance topics such as the Query Store, In-Memory OLTP and columnstore indexes are covered as well. By the end of this book, you'll be able to get the best possible performance for your queries and applications. What you will learn

- Troubleshoot queries using methods including extended events, SQL Trace, and dynamic management views
- Understand how the execution engine and query operators work
- Speed up queries and improve app performance by creating the right indexes
- Detect and fix cardinality estimation errors by examining query optimizer statistics
- Monitor and promote both plan caching and plan reuse to improve app performance
- Troubleshoot and improve query performance by using the Query Store
- Improve the performance of data warehouse



queries by using columnstore indexes • Handle query processor limitations with hints and other methods Who this book is for This book is for SQL Server developers who are struggling with slow query execution, database administrators who are tasked with troubleshooting slow application performance, and database architects who design SQL Server databases in support of line-of-business and data warehousing applications. "This is the definitive guide to Linux software debugging and performance optimization at both the kernel and application levels. Using extensive Linux code examples, Steve Best systematically introduces open source tools and best-practice techniques for delivering bug-free, well-tuned code."--BOOK JACKET. Become A Professional Windows Optimizer! 27 Amazing Windows 10 Performance Boosting Tips Is A Complete Visual Guide For Beginners, Intermediates & Experts Published By Craig The Tech Teacher WHO THIS BOOK IS FOR: It is very uncommon for me to create something that only targets a small group. For this reason, amongst others, I've opted to create a guide accessible to all. The contents of each section in this book clearly illustrate all of the steps involved in each task. Beginners to the Windows 10 environment can benefit significantly from the contents of this book. While some of us IT professionals may glaze over what we already know, beginner users can soak up some of the most commonly implemented optimization techniques in the field. This book is also an excellent fit for IT professionals looking to sharpen their skills in performance optimization of the Windows operating system. The additional skill set you receive from

this book equips you as a better troubleshooter and a system optimizer. **Take performance to the next level!**

This book does not just teach you how the CLR works---it teaches you exactly what you need to do now to obtain the best performance today. It will expertly guide you through the nuts and bolts of extreme performance optimization in .NET, complete with in-depth examinations of CLR functionality, free tool recommendations and tutorials, useful anecdotes, and step-by-step guides to measure and improve performance.

This second edition incorporates the advances and improvements in .NET over the last few years, as well as greatly expanded coverage of tools, more topics, more tutorials, more tips, and improvements throughout the entire book.

### **New in the 2nd Edition:**

- 50% increase in content!
- New examples, code samples, and diagrams throughout entire book
- More ways to analyze the heap and find memory problems
- More tool coverage, including expanded usage of Visual Studio
- More benchmarking
- New GC configuration options
- Code warmup techniques

- New .NET features such as ref-returns, value tuples, SIMD, and more
- More detailed analysis of LINQ
- Tips for high-level feature areas such as ASP.NET, ADO.NET, and WPF

Also find expanded coverage and discover new tips and tricks for:

- Profiling with multiple tools to quickly find problem areas
- Detailed description of the garbage collector, how to optimize your code for it, and how to diagnose difficult memory-related issues
- How to analyze JIT and diagnose warmup problems
- Effective use of the Task Parallel Library to maximize throughput
- Which .NET features and APIs to use and which to avoid
- Instrument your program with performance counters and ETW events
- Use the latest and greatest .NET features
- Build a performance-minded team
- ...and so much more

"It takes a structured and systematic approach to change a business model and successfully reengineer your company. Dr. Howes' approach to business optimization provides a logical and accountable methodology to transition your organization to the desired future state." This handbook is for anyone responsible for a Web site, from the person running a

personal site off a Linux PC at home up to large corporate site managers who wants to improve their performance right now. Optimization For Athletes is written by an athlete, for an athlete. This book contains the updated and revised versions of "Weight Training For Results" and "Optimization For Athletes: Performance Nutrition and Sport Nutrition," offering 2 books in one! These two parts focus on the lifting and diet side of performance, and how to get the most out of simple daily habits. Learn how to instantly increase your strength, how to eat depending on your training, and numerous tips to maximize your performance. Through reading, you will learn how to break through plateaus with LESS work, as well as rising above the competition in the shortest amount of time possible. Find out the best secrets top end athletes use by investing in this book! Performance tuning is an experimental science, but that doesn't mean engineers should resort to guesswork and folklore to get the job done. Yet that's often the case. With this practical book, intermediate to advanced Java technologists working with complex technology stacks will learn how to tune Java applications for performance using a quantitative, verifiable approach. Most resources on performance tend to discuss the theory and internals of Java virtual machines, but this book focuses on the practicalities of performance tuning by examining a wide range of aspects. There are no simple recipes, tips and tricks, or algorithms to learn. Performance tuning is a process of defining and determining desired outcomes. And it requires diligence. Learn how Java principles and technology make the best use of modern hardware and operating systems Explore several performance

tests and common anti-patterns that can vex your team  
Understand the pitfalls of measuring Java performance numbers and the drawbacks of microbenchmarking Dive into JVM garbage collection logging, monitoring, tuning, and tools Explore JIT compilation and Java language performance techniques Learn performance aspects of the Java Collections API and get an overview of Java concurrency 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  
Master performance optimization for Unity3D applications with tips and techniques that cover every aspect of the Unity3D Engine  
About This Book Optimize CPU cycles, memory usage, and GPU throughput for any Unity3D application  
Master optimization techniques across all Unity Engine features including Scripting, Asset Management, Physics, Graphics Features, and Shaders  
A practical guide to exploring Unity Engine's many performance-enhancing methods  
Who This Book Is For This book is intended for intermediate and advanced Unity developers who have experience with most of Unity's feature-set, and who want to maximize the performance of their game. Familiarity with the C# language will be needed.  
What You Will Learn Use the Unity Profiler to find bottlenecks anywhere in our application, and discover

how to resolve them Implement best-practices for C# scripting to avoid common pitfalls Develop a solid understanding of the rendering pipeline, and maximize its performance through reducing draw calls and avoiding fill rate bottlenecks Enhance shaders in a way that is accessible to most developers, optimizing them through subtle yet effective performance tweaks Keep our scenes as dynamic as possible by making the most of the Physics engine Organize, filter, and compress our art assets to maximize performance while maintaining high quality Pull back the veil on the Mono Framework and the C# Language to implement low-level enhancements that maximize memory usage and avoid garbage collection Get to know the best practices for project organization to save time through an improved workflow In Detail Competition within the gaming industry has become significantly fiercer in recent years with the adoption of game development frameworks such as Unity3D. Through its massive feature-set and ease-of-use, Unity helps put some of the best processing and rendering technology in the hands of hobbyists and professionals alike. This has led to an enormous explosion of talent, which has made it critical to ensure our games stand out from the crowd through a high level of quality. A good user experience is essential to create a solid product that our users will enjoy for many years to come. Nothing turns gamers away from a game faster than a poor user-experience. Input latency, slow rendering, broken physics, stutters, freezes, and crashes are among a gamer's worst nightmares and it's up to us as game developers to ensure this never happens. High performance does not need to be limited to games with the biggest teams and budgets.

Initially, you will explore the major features of the Unity3D Engine from top to bottom, investigating a multitude of ways we can improve application performance starting with the detection and analysis of bottlenecks. You'll then gain an understanding of possible solutions and how to implement them. You will then learn everything you need to know about where performance bottlenecks can be found, why they happen, and how to work around them. This book gathers a massive wealth of knowledge together in one place, saving many hours of research and can be used as a quick reference to solve specific issues that arise during product development. Style and approach This book is organized based on the major features of Unity engine and should be treated as a reference guide. It is written as a series of investigations into both common and unusual performance pitfalls, each including a study on why the bottleneck is causing us problems, and a list of enhancements or features that can be used to work around them. Differences in effectiveness, behaviors, or feature-sets between Unity 4.x and Unity 5.x will be highlighted.

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