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~~The High Performance SQL Server DBA Managing Multiple Database Platforms for Performance & Availability By Scott Walz, Sr. Director of Product Management at Embarcadero Technologies and Stephen Wynkoop, Microsoft SQL Server MVP and Founder of SSWUG.org~~

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~~The High Performance SQL Server DBA - Danysoft~~

~~Buy High Performance SQL Server DBA: Tuning and Optimization Secrets (IT In-Focus) by Donald Keith Burleson, Robin Schumacher (ISBN: 9780976157366) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.~~

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~~High Performance SQL Server DBA: Tuning and Optimization ...~~

~~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 Server8i...~~

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~~High Performance SQL Server DBA: Tuning & Optimization ...~~

~~One of the most effective ways to enhance database performance in SQL server is to locate the areas having a problem, and find out which queries are causing problems and resolve them. For example, use SELECT (field name) instead of SELECT \* for database optimization. 3. Monitor Index Usage regularly.~~

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~~How to improve database performance in SQL Server?~~

~~Talking about SQL Server optimization, query tuning is often the fastest way to accelerate SQL Server performance. Most often system-level server performance (memory, processors, and so on) improvement measures are ineffective and expensive.. Expert developers, but also experienced DBAs, believe most performance issues can be traced to poorly written queries & inefficient indexing, .~~

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~~[PDF] High Performance SQL Server DBA by Robin Schumacher ...~~

~~Pinal Dave is a SQL Server Performance Tuning Expert and an independent consultant. He has authored 12 SQL Server database books, 35 Pluralsight courses and has written over 5200 articles on the database technology on his blog at a <https://blog.sqlauthority.com>. Along with 17+ years of hands-on experience, he holds a Masters of Science degree and a number of database certifications.~~

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~~Performance Challenge - Write Efficient Query - SQL in ...~~

~~SQL and Database Performance Tuning Guide and Checklist: Expert Tips. By dnsstuff on August 26, 2018. A Database Administrator (DBA) is like a racecar technician. Building and optimizing a high-performance vehicle requires minuscule fine-tuning and attention to detail. A tweak here and an adjustment there could shave just a fraction of a second from your lap time.~~

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~~SQL and Database Performance Tuning Guide and Checklist ...~~

~~Buy High Performance SQL Server DBA: Tuning and Optimization Secrets by Burleson, Donald Keith, Schumacher, Robin online on Amazon.ae at best prices. Fast and free shipping free returns cash on delivery available on eligible purchase.~~

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~~High Performance SQL Server DBA: Tuning and Optimization ...~~

~~In this article I will describe a step-by-step procedure for basic performance tuning on one of the top database servers in the market: Microsoft SQL Server (SQL Server, for short). #1 Finding The Culprits. As with any other software, we need to understand that SQL Server is~~

a complex computer program.

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How to Improve Microsoft SQL Server Performance | Toptal

Azure SQL Database Hyperscale adapts to changing requirements by rapidly scaling storage up to 100 TB. Flexible, cloud native architecture allows storage to grow as needed and enables nearly instantaneous backups and fast database restores in minutes—regardless of the size of the data operation.

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Azure SQL Database | Microsoft Azure

High Performance SQL Server Troubleshooting SQL Server A Guide for the Accidental DBA Jonathan Kehayias and Ted Krueger Foreword by Paul Randal Technical review by Gail Shaw ISBN: 978-1-906434-77-9 . Troubleshooting SQL Server

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Troubleshooting SQL Server - Compliant Database DevOps ...

According to research SQL Server, DBA has a market share of about 46%. So, You still have the opportunity to move ahead in your career in SQL Server DBA. Mindmajix offers Advanced SQL Server DBA Interview Questions 2019 that helps you in cracking your interview & acquire dream career as SQL Server DBA Developer.

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Top 50 SQL Server DBA Interview Questions And Answers

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.

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High Performance SQL Server DBA: Tuning and Optimization ...

Apply Your SQL Server DBA Skills to Oracle Database Administration Use your SQL Server experience to set up and maintain a high-performance Oracle Database environment. Written by a DBA with expertise in both platforms, Oracle Database Administration for Microsoft SQL Server DBAs illustrates each technique with clear explanations, examples, and comparison tables.

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DBA essentials—SQL Server 2017 security, performance tuning, and more—inside out October 18, 2018 By SQL Server Team Whether you're an experienced DBA with multiple certifications or just starting on your SQL Server DBA journey, you face challenges constantly for putting your organization's data to work.

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High performance database Archives - SQL Server Blog

SentryOne helps data teams write better-performing SQL Server queries, and analyze queries, at every stage of the database. Our industry-beloved Plan Explorer helps you get to the root of the toughest query performance problems.

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.

Design and configure SQL Server instances and databases in support of high-throughput applications that are mission-critical and provide consistent response times in the face of variations in user numbers and query volumes. Learn to configure SQL Server and design your databases to support a given instance and workload. You'll learn advanced configuration options, in-memory technologies, storage and disk configuration, and more, all toward enabling your desired application performance and throughput. Configuration doesn't stop with implementation. Workloads change over time, and other impediments can arise to thwart desired performance. High Performance SQL Server covers monitoring and troubleshooting to aid in detecting and fixing production performance problems and minimizing application outages. You'll learn a variety of tools, ranging from the traditional wait analysis methodology to the new query store, and you'll learn how improving performance is really an iterative process. High Performance SQL Server is based on SQL Server 2016, although most of its content can be applied to prior versions of the product. This book is an excellent complement to performance tuning books focusing on SQL queries, and provides the other half of what you need to know by focusing on configuring the instances on which mission-critical queries are executed. Covers SQL Server instance-configuration for optimal performance Helps in implementing SQL Server in-memory technologies Provides guidance toward monitoring and ongoing diagnostics What You Will Learn Understand SQL Server's database engine and how it processes queries Configure instances in support of high-throughput applications Provide consistent response times to varying user numbers and query volumes Design databases for high-throughput applications with focus on performance Record performance baselines and monitor SQL Server instances against them Troubleshoot and fix performance problems Who This Book Is For SQL Server database administrators, developers, and data architects. The book is also of use to system administrators who are managing and are responsible for the physical servers on which SQL Server instances are run.

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.

This book describes, diagnoses, and solves the most common problems with SQL Server 2005, 2008, and 2008 R2. The authors explain a basic approach to troubleshooting and the essential tools. They explore areas in which problems arise with regularity: high disk I/O (RAID misconfiguration, inadequate I/O throughput, poor workload distribution, SAN issues, disk partition misalignment); high CPU usage (insufficient memory, poorly written queries, inadequate indexing, inappropriate configuration option settings); memory mismanagement; missing indexes; blocking (caused mainly by poorly designed databases that lack proper keys and indexing, and applications that apply needlessly restrictive transaction isolation levels); deadlocking (Bookmark Lookup, Serializable Range Scan, Cascading Constraint); full transaction logs (lack of log backups, hefty index maintenance operations, long running transaction, problems with replication and mirroring environments); and accidentally-lost data. Finally, the authors discuss diagnosing tools such as the Performance Monitor, Dynamic Management Views, and server-side tracing. --

Design and configure SQL Server instances and databases in support of high-throughput, mission-critical applications providing consistent response times in the face of variations in numbers of users and query volumes. In this new edition, with over 100 pages of additional content, every original chapter has been updated for SQL Server 2019, and the book also includes two new chapters covering SQL Server on Linux and Intelligent Query Processing. This book shows you how to configure SQL Server and design your databases to support a given instance and workload. You will learn advanced configuration options, in-memory technologies, storage and disk configuration, and more, all aimed toward enabling your desired application performance and throughput. Configuration doesn't stop with implementation. Workloads change over time, and other impediments can arise to thwart desired performance. High Performance SQL Server covers monitoring and troubleshooting to aid you in detecting and fixing production performance problems and minimizing application outages. You will learn about a variety of tools, ranging from the traditional wait analysis methodology to the query store or indexing, and you will learn how improving performance is an iterative process. This book is an excellent complement to query performance tuning books and provides the other half of what you need to know by focusing on configuring the instances on which mission-critical queries are executed. What You Will Learn Understand SQL Server's database engine and how it processes queries Configure instances in support of high-throughput applications Provide consistent response times to varying user numbers and query volumes Design databases for high-throughput applications with focus on performance Record performance baselines and monitor SQL Server instances against them Troubleshoot and fix performance problems Who This Book Is For SQL Server database administrators, developers, and data architects. The book is also of use to system administrators who are managing and are responsible for the physical servers on which SQL Server instances are run.

Dynamic Management Views (DMVs) are a significant and valuable addition to the DBA's troubleshooting armory, laying bare previously unavailable information regarding the under-the-covers activity of your database sessions and transactions. Why, then, aren't all DBAs using them? Why do many DBAs continue to ignore them in favour of "tried and trusted" tools such as `sp_who2`, `DBCC OPENTRAN`, and so on, or make do with the "ready made" reports built into SSMS? Why do even those that do use the DMVs speak wistfully about "good old sysprocesses"? There seem to be two main factors at work. Firstly, some DBAs are simply unaware of the depth and breadth of the information that is available from the DMVs, or how it might help them troubleshoot common issues. This book investigates all of the DMVs that are most frequently useful to the DBA in investigating query execution, index usage, session and transaction activity, disk IO, and how SQL Server is using or abusing the operating system. Secondly, the DMVs have a reputation of being difficult to use. In the process of exposing as much useful data as possible, `sysprocesses` has been de-normalized, and many new views and columns have been added. This fact, coupled with the initially-baffling choices of what columns will be exposed where, has led to some DBAs to liken querying DMVs to "collecting mystic spells." In fact, however, once you start to write your own scripts, you'll see the same tricks, and similar join patterns, being used time and again. As such, a relatively small core set of scripts can be readily adapted to suit any requirement. This book is here to demystify the process of collecting the information you need to troubleshoot SQL Server problems. It will highlight the core techniques and "patterns" that you need to master, and will provide a core set of scripts that you can use and adapt for your own systems, including how to: \* Root out the queries that are causing memory or CPU pressure on your system \* Investigate caching, and query plan reuse \* Identify index usage patterns \* Track fragmentation in clustered indexes and heaps \* Get full details on blocking and blocked transactions, including the exact commands being executed, and by whom. \* Find out where SQL Server is spending time waiting for resources to be released, before proceeding \* Monitor usage and growth of tempdb The DMVs don't make existing, built-in, performance tools obsolete. On the contrary, they complement these tools, and offer a flexibility, richness and granularity that are simply not available elsewhere. Furthermore, you don't need to master a new GUI, or a new language in order to use them; it's all done in a language all DBAs know and mostly love: T-SQL.

Apply Your SQL Server DBA Skills to Oracle Database Administration Use your SQL Server experience to set up and maintain a high-performance Oracle Database environment. Written by a DBA with expertise in both platforms, Oracle Database Administration for Microsoft SQL Server DBAs illustrates each technique with clear explanations, examples, and comparison tables. Get full details on Oracle Database intervals, creation assistants, management techniques, and query tools. High availability, disaster recovery, and security procedures are also extensively covered in this comprehensive Oracle Press guide. Install and configure Oracle Database on Windows or Linux systems Administer and monitor databases from Oracle Enterprise Manager Implement robust security using roles, permissions, and privileges Back up and restore databases with Oracle Recovery Manager Use the Oracle cost-based optimizer to tune performance Write, debug, and execute PL/SQL queries using Oracle SQL Developer Maximize availability with Oracle Real Application Clusters Build standby and failover servers using Oracle Data Guard

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

Automate your workload and manage more databases and instances with greater ease and efficiency by combining metadata-driven automation with powerful tools like PowerShell and SQL Server Agent. Automate your new instance-builds and use monitoring to drive ongoing automation, with the help of an inventory database and a management data warehouse. The market has seen a trend towards there being a much smaller ratio of DBAs to SQL Server instances. Automation is the key to responding to this challenge and continuing to run a reliable database platform service. Expert Scripting and Automation for SQL Server DBAs guides you through the process of automating the maintenance of your SQL Server enterprise. Expert Scripting and Automation for SQL Server DBAs shows how to automate the SQL Server build processes, monitor multiple instances from a single location, and automate routine maintenance tasks throughout your environment. You will also learn how to create automated responses to common or time consuming break/fix scenarios. The book helps you become faster and better at what you do for a living, and thus more valuable in the job market. Extensive coverage of automation using PowerShell and T-SQL Detailed discussion and examples on metadata-driven automation Comprehensive coverage of automated responses to break/fix scenarios What You Will Learn Automate the SQL Server build process Create intelligent, metadata-drive routines Automate common maintenance tasks Create automated responses to common break/fix scenarios Monitor multiple instance from a central location Utilize T-SQL and PowerShell for administrative purposes Who This Book Is For Expert Scripting and Automation for SQL Server DBAs is a book for SQL Server database administrators responsible for managing increasingly large numbers of databases across their business enterprise. The book is also useful for any database administrator looking to ease their workload through automation. The book addresses the needs of these audiences by showing how to get more done through less effort by implementing an intelligent, automated-processes service model using tools such as T-SQL, PowerShell, Server Agent, and the Management Data Warehouse.

Other books pay lip service to performance tuning Microsoft SQL Server. This is the only book devoted exclusively to MS SQL Server performance tuning. Focusing on ODBC programming practices, the book covers database design and explains how that relates to performance issues, and covers optimization at both the application and server levels.

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