

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**

Troubleshooting Sql Server A Guide For The Accidental Dba

Eric Johnson



Troubleshooting Sql Server A Guide For The Accidental Db:

Troubleshooting SQL Server Jonathan Kehayias, Ted Krueger, 2011 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

SQL Server 2019 Administration Inside Out Randolph West, Melody Zacharias, William Assaf, Sven Aelterman, Louis Davidson, Joseph D'Antoni, 2020-03-11 Conquer SQL Server 2019 administration from the inside out Dive into SQL Server 2019 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 2019 in any production environment on premises cloud or hybrid Six experts thoroughly tour DBA capabilities available in SQL Server 2019 Database Engine SQL Server Data Tools SQL Server Management Studio PowerShell and Azure Portal You ll find extensive new coverage of Azure SQL big data clusters PolyBase data protection automation and more Discover how experts tackle today s essential tasks and challenge yourself to new levels of mastery Explore SQL Server 2019 s toolset including the improved SQL Server Management Studio Azure Data Studio and Configuration Manager Design implement manage and govern on premises hybrid or Azure database infrastructures Install and configure SQL Server on Windows and Linux Master modern maintenance and monitoring with extended events Resource Governor and the SQL Assessment API Automate tasks with maintenance plans PowerShell Policy Based Management and more Plan and manage data recovery including hybrid backup restore Azure SQL Database recovery and geo replication Use availability groups for high availability and disaster recovery Protect data with Transparent Data Encryption Always Encrypted new Certificate Management capabilities and other advances Optimize databases with SQL Server 2019 s advanced performance and indexing features Provision and operate Azure SQL Database and its managed instances Move SQL Server workloads to Azure planning testing migration and post migration

Database Administration Craig S. Mullins, 2012-10-11 Database Administration Second Edition is the definitive technology independent guide to the modern discipline of database administration Packed with best practices and proven solutions for any database platform or environment this text fully reflects the field s latest realities and challenges Drawing

on more than thirty years of database experience Mullins focuses on problems that today's DBAs actually face and skills and knowledge they simply must have Mullins presents realistic thorough and up to date coverage of every DBA task including creating database environments data modeling normalization design performance data integrity compliance governance security backup recovery disaster planning data and storage management data movement distribution data warehousing connectivity metadata tools and more This edition adds new coverage of Big Data database appliances cloud computing and NoSQL Mullins includes an entirely new chapter on the DBA's role in regulatory compliance with substantial new material on data breaches auditing encryption retention and metadata management You'll also find an all new glossary plus up to the minute DBA rules of thumb

SQL Server 2017 Administration Inside Out William Assaf, Randolph West, Sven Aelterman, Mindy Curnutt, 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

SQL Server Fundamentals for the Accidental DBA Eric Johnson, 2009 This program shows how to perform every essential DBA task with SQL server 2005 and SQL server 2008

[SQL Server 2005 Practical Troubleshooting](#) Ken Henderson, 2006-12-08 Never Before Published Insiders Information for Troubleshooting SQL Server 2005 This is the definitive guide to troubleshooting the Microsoft SQL Server 2005 database engine direct from the people who know it most intimately the people who wrote it designed it and support it SQL Server expert Ken Henderson author of the best selling Guru's Guides to SQL Server has assembled a dream team of SQL Server developers and support engineers

to provide in depth troubleshooting and diagnostic information that has never been documented before information that would be impossible to get without access to Microsoft's own source code From caching to clustering query processing to Service Broker this book will help you address even the toughest problems with database engine operations Each chapter begins with a brief architectural overview of a key SQL Server component then drills down into the most common problems users encounter offering specific guidance on investigating and resolving them You'll find comprehensive in depth chapters on Waiting and blocking Data corruption and recovery Memory Procedure cache issues Query processing Server crashes and other critical failures Service Broker SQLOS and scheduling tempdb Clustering This is the indispensable resource for everyone who must keep SQL Server running smoothly DBAs database application developers API programmers and Web developers alike

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Microsoft SQL Server Orryn Sledge, Mark Spenik, 1996 Text written in 7 parts Introduction including the role of the Database Administrator 2 World of Microsoft's SQL Server 3 Planning and Installing Upgrading the SQL server 4 Database operation 5 Performance and tuning 6 Maintaining the Shop 7 Appendixes

Brad's Sure Guide to SQL Server Maintenance Plans Brad McGehee, 2010-01 In his new book Brad's Sure Guide to SQL Server Maintenance Plans Brad McGehee takes you on a comprehensive tour of two SQL Server tools designed to help DBAs ensure that a required minimum level of maintenance takes place on their SQL Server instances the Maintenance Plan Wizard and the Maintenance Plan Designer

Table of Contents Chapter 01 Why is Database Maintenance Important Chapter 02 Before you Create any Maintenance Plans Chapter 03 Getting Started with the Maintenance Plan Wizard Chapter 04 Task Scheduling Chapter 05 Check database Integrity Task Chapter 06 Shrink Database Task Chapter 07 Rebuild Index Task Chapter 08 Reorganize Index Task Chapter 09 Update Statistics Task Chapter 10 Execute SQL Server Agent Job Task Chapter 11 History Cleanup Task Chapter 12 Define Back Up Database Full Task Chapter 13 Define Back Up Database Differential Task Chapter 14 Back Up Database Transaction Log Task Chapter 15 Maintenance Cleanup Task Chapter 16 Using the Maintenance Plan Designer

Why read this book Millions of SQL Server instances run in the offices of small and medium sized organizations and there are many accidental DBAs out there whose job it is to maintain them Often they find that they don't have the knowledge experience or critically the time to perform the correct level of maintenance on their SQL Server databases much as they might like to This can mean poor performance and reduced availability Regardless of the size of your organization if your mission critical data becomes unavailable then business will suffer greatly The Maintenance Plan Wizard and Designer allow you to configure and schedule eleven core database maintenance tasks ranging from integrity checks to database backups to index reorganizations and rebuilds Brad

walks through every one of these tasks covering The intent of each task and why it s important How to configure each task and what all the options mean Scheduling considerations when and how often should you run the task Customizing and extended your Maintenance Plans using the Designer Used carefully these Maintenance Plan tools represent powerful time saving devices for any DBA At each stage of the book Brad explains clearly the correct and incorrect uses for the tool and indicates where more advanced solutions using T SQL or PowerShell scripting would be more appropriate **SQL Server Troubleshooting Guide** ,1994 **Professional SQL Server 2008 Internals and Troubleshooting** Christian Bolton,Justin Langford,Brent Ozar,James Rowland-Jones,Jonathan Kehayias,Cindy Gross,Steven Wort,2010-06-22 A hands on resource for SQL Server 2008 troubleshooting methods and tools SQL Server administrators need to ensure that SQL Server remains running 24 7 Authored by leading SQL Server experts and MVPs this book provides in depth coverage of best practices based on a deep understanding of the internals of both SQL Server and the Windows operating system You ll get a thorough look at the SQL Server database architecture and internals as well as Windows OS internals so that you can approach troubleshooting with a solid grasp of the total processing environment Armed with this comprehensive understanding readers will then learn how to use a suite of tools for troubleshooting performance problems whether they originate on the database server or operating system side Topics Covered SQL Server Architecture Understanding Memory SQL Server Waits and Extended Events Working with Storage CPU and Query Processing Locking and Latches Knowing Tempdb Defining Your Approach To Troubleshooting Viewing Server Performance with PerfMon and the PAL Tool Tracing SQL Server with SQL Trace and Profiler Consolidating Data Collection with SQLDiag and the PerfStats Script Introducing RML Utilities for Stress Testing and Trace File Analysis Bringing It All Together with SQL Nexus Using Management Studio Reports and the Performance Dashboard Using SQL Server Management Data Warehouse Shortcuts to Efficient Data Collection and Quick Analysis Note CD ROM DVD and other supplementary materials are not included as part of eBook file **SQL Server 2016 Fundamentals for the Accidental DBA LiveLessons** Eric Johnson,2017 SQL Server is installed behind many third party applications and behind Microsoft development tools such as Visual Studio System administrators and developers alike are increasingly responsible for working with and managing SQL Server with no prior exposure or background Further they need to understand the basics of relational databases and technologies such as indexing and stored procedures to effectively develop applications This video covers SQL Server from their perspectives and gives them what they need to manage these instances SQL Server 2016 Fundamentals for the Accidental DBA LiveLessons is for power users developers IT pros and anyone who manages SQL Server without formal DBA training Eric Johnson shows you how to perform the essential DBA tasks with SQL Server 2016 even if you ve never had any DBA training In these lessons you learn at your own pace through realistic hands on examples that walk you through every step While these lessons are taught on SQL Server 2016 and use the latest tools and features most of what you learn can be applied to earlier versions as well If you are an accidental DBA

expected to run Microsoft SQL Server efficiently reliably and securely when nobody ever taught you how then this is the video for you From backup restore to indexing to scheduling to memory management you get all the personal practical DBA training you ll ever need Resource description page

Professional SQL Server 2012 Internals and Troubleshooting Christian Bolton,Justin Langford,Glenn Berry,Gavin Payne,Amit Banerjee,Rob Farley,2012-10-18 Hands on troubleshooting methods on the most recent release of SQL Server The 2012 release of SQL Server is the most significant one since 2005 and introduces an abundance of new features This critical book provides in depth coverage of best practices for troubleshooting performance problems based on a solid understanding of both SQL Server and Windows internals and shows experienced DBAs how to ensure reliable performance The team of authors shows you how to master the use of specific troubleshooting tools and how to interpret their output so you can quickly identify and resolve any performance issue on any server running SQL Server Covers the core technical topics required to understand how SQL Server and Windows should be working Shares best practices so that you know how to proactively monitor and avoid problems Shows how to use tools to quickly gather analyze and effectively respond to the source of a system wide performance issue Professional SQL Server 2012 Internals and Troubleshooting helps you to quickly become familiar with the changes of this new release so that you can best handle database performance and troubleshooting

SQL Server ,2005 Microsoft SQL Server 2000 DBA Survival Guide Mark Spenik,Orryn Sledge,2003 Organized into several parts that comprise the various jobs and tasks the DBA performs each chapter of this book is presented with the goal of providing knowledge and know how to Database Administrators of a SQL Server database The chapters also offer real world insight and experience by passing on tips tricks and suggestions

SQL Server 2012 Fundamentals for the Accidental DBA LiveLessons (Sneak Peek Video Training) Eric Johnson,2013 SQL Server is installed behind many third party applications and behind Microsoft development tools such as Visual Studio In today s IT workplace system administrators and developers with no prior exposure or background are increasingly responsible for working with and managing SQL Server In order to take on the role of accidental DBA they need to understand the basics of relational databases and technologies such as indexing and stored procedures in order to effectively develop applications This video will cover SQL Server from their perspectives and give them what they need to manage these instances Resource description page

Forthcoming Books Rose Arny,1998

Professional Microsoft SQL Server 2012 Administration Adam Jorgensen,Steven Wort,Ross LoForte,Brian Knight,2012-03-28 An essential how to guide for experienced DBAs on the most significant product release since 2005 Microsoft SQL Server 2012 will have major changes throughout the SQL Server and will impact how DBAs administer the database With this book a team of well known SQL Server experts introduces the many new features of the most recent version of SQL Server and deciphers how these changes will affect the methods that administrators have been using for years Loaded with unique tips tricks and workarounds for handling the most difficult SQL Server admin issues this how to guide deciphers topics such as performance tuning backup and recovery scaling and

replication clustering and security Serves as a must have how to guide on the new features of the 2012 release of Microsoft SQL Server Walks you through ways to manage and monitor SQL Server and automate administration Guides you through SQL Azure for cloud computing data replication and data warehouse performance improvements Addresses client connectivity enhancements new features that ensure high availability of mission critical applications and tighter integration with Excel and SharePoint for data analysis and reporting Highlights major changes to the suite of SQL Server BI tools including integration reporting and analysis services Includes real world case examples and best practices from Microsoft insiders If you re a database administrator eager to get started with the newest version of SQL Server then this book is essential reading **The Microsoft? SQL Server Survival Guide** Jim Panttaja,Mary Panttaja,Bruce

Prendergast,1996-04-25 Based on years of trial and error experience this indispensable hands on guide offers an insider s look at the latest version of Microsoft SQL Contains step by step solutions for commonly encountered problems such as performance tuning configuration management application partitioning and troubleshooting Includes numerous tips and techniques for day to day tasks as well as abundant illustrations *Professional Microsoft SQL Server 2008 Administration* Brian Knight,Ketan Patel,Wayne Snyder,Ross LoForte,Steven Wort,2008-11-03 SQL Server 2008 represents a sizable jump forward in scalability performance and usability for the DBA developer and business intelligence BI developer It is no longer unheard of to have 20 terabyte databases running on a SQL Server SQL Server administration used to just be the job of a database administrator DBA but as SQL Server proliferates throughout smaller companies many developers have begun to act as administrators as well Additionally some of the new features in SQL Server are more developer centric and poor configuration of these features can result in poor performance SQL Server now enables you to manage the policies on hundreds of SQL Servers in your environment as if you were managing a single instance We ve provided a comprehensive tutorial based book to get you over the learning curve of how to configure and administer SQL Server 2008 Whether you re an administrator or developer using SQL Server you can t avoid wearing a DBA hat at some point Developers often have SQL Server on their own workstations and must provide guidance to the administrator about how they d like the production configured Oftentimes they re responsible for creating the database tables and indexes Administrators or DBAs support the production servers and often inherit the database from the developer This book is intended for developers DBAs and casual users who hope to administer or may already be administering a SQL Server 2008 system and its business intelligence features such as Integration Services This book is a professional book meaning the authors assume that you know the basics about how to query a SQL Server and have some rudimentary concepts of SQL Server already For example this book does not show you how to create a database or walk you through the installation of SQL Server using the wizard Instead the author of the installation chapter may provide insight into how to use some of the more advanced concepts of the installation Although this book does not cover how to query a SQL Server database it does cover how to tune the queries you ve already written

SQL Server 2008 Administration Instant Reference Michael Lee, Mike Mansfield, 2009-08-19 Perfect companion to any SQL Server 2008 book providing fast accurate answers on the spot for millions of IT professionals System and database administrators IT consultants and database application developers often need quick answers and practical solutions for SQL Server issues This convenient guide offers you quick referencing for the product and database topics you need most If you re an IT administrator looking for the essentials in the day to day tasks of administering SQL Server 2008 you ll appreciate this book s design for providing quick and easy look up of solutions and tables lists and step by step instructions for answers on the spot SQL Server 2008 Instant Administration Reference is a guide that you want to keep within reach SQL Server is Microsoft s bestselling database manager the 2008 version offers enhanced security and high availability encouraging users to upgrade Features thumb tabs secondary and tertiary tables of contents and special heading treatments to provide quick and easy lookup as well as quick reference tables and lists to provide answers on the spot Covers installing configuring managing and maintaining SQL Server optimizing server performance and troubleshooting SQL Server 2008 Administration Instant Reference answers the questions you encounter most often in your daily work

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