



Quick answers to common problems

Microsoft SQL Server 2012 Performance Tuning Cookbook

80 recipes to help you tune SQL Server 2012 and achieve
optimal performance

Ritesh Shah

Bihag Thaker

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Microsoft Sql Server 2012 Performance Tuning Cookbook

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SQL Server 2012 Query Performance Tuning Grant Fritchey,Sajal

Dam,2013-11-19 Queries not running fast enough Tired of the phone calls from frustrated users Grant Fritchey s book SQL Server 2012 Query Performance Tuning is the answer to your SQL Server query performance problems The book is revised to cover the very latest in performance optimization features and techniques It is current with SQL Server 2012 It provides the tools you need to approach your queries with performance in mind SQL Server 2012 Query Performance Tuning leads you through understanding the causes of poor performance how to identify them and how to fix them You ll learn to be proactive in establishing performance baselines using tools like Performance Monitor and Extended Events You ll learn to recognize bottlenecks and defuse them before the phone rings You ll learn some quick solutions too but emphasis is on designing for performance and getting it right and upon heading off trouble before it occurs Delight your users Silence that ringing phone Put the principles and lessons from SQL Server 2012 Query Performance Tuning into practice today Establish performance baselines and monitor against them Troubleshoot and eliminate bottlenecks that frustrate users Plan ahead to achieve the right level of performance

Microsoft SQL Server 2012 T-SQL Fundamentals Itzik Ben-Gan,2012-04-15 Apply

powerful window functions in T SQL and increase the performance and speed of your queries Optimize your queries and obtain simple and elegant solutions to a variety of problems using window functions in Transact SQL Led by T SQL expert Itzik Ben Gan you ll learn how to apply calculations against sets of rows in a flexible clear and efficient manner Ideal whether you re a database administrator or developer this practical guide demonstrates ways to use more than a dozen T SQL querying solutions to address common business tasks Discover how to Go beyond traditional query approaches to express set calculations more efficiently Delve into ordered set functions such as rank distribution and offset Implement hypothetical set and inverse distribution functions in standard SQL Use strategies for improving sequencing paging filtering and pivoting Increase query speed using partitioning ordering and coverage indexing Apply new optimization iterators such as Window Spool Handle common issues such as running totals intervals medians and gaps

SQL Server 2012 with PowerShell V3 Cookbook Donabel Santos,2012-10-25 SQL Server 2012 with PowerShell V3 Cookbook is an example focused book that

provides step by step instructions on how to accomplish specific SQL Server tasks using PowerShell Each recipe is followed by an analysis of the steps or design decisions taken and additional information about the task at hand Working scripts are provided for all examples so that you can dive in right away You can read this book sequentially by chapter or you can pick and choose which topics you need right away This book is written for the SQL Server database professional DBA developer BI developer who wants to use PowerShell to automate integrate and simplify database tasks A little bit of scripting background is helpful but not necessary [**SQL Server 2012 T-SQL Recipes**](#) Jason Brimhall,David Dye,Timothy Roberts,Wayne

Sheffield,Jonathan Gennick,Joseph Sack,2012-10-15 SQL Server 2012 T SQL Recipes is an example based guide to the

Transact SQL language that is at the core of SQL Server 2012 It provides ready to implement solutions to common programming and database administration tasks Learn to create databases insert and update data generate reports secure your data and more Tasks and their solutions are broken down into a problem solution format that is quick and easy to read so that you can get the job done fast when the pressure is on Solutions in this book are divided into chapters by problem domain Each chapter is a collection of solutions around a single facet of the language such as writing queries developing triggers and applying aggregate functions Each solution is presented code first giving you a working code example to copy from and implement immediately in your own environment Following each example is an in depth description of how and why the given solution works Tradeoffs and alternative approaches are also discussed Focused on solutions Look up what you need to do Learn how to do it Do it Current Newly updated for SQL Server 2012 Comprehensive Covers all common T SQL problem domains [**SQL Server Query Performance Tuning**](#) Grant Fritchey,2014-09-16 Queries not running fast enough

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High Performance SQL Server Benjamin Nevarez, 2016-11-21 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

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

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tuning best practices for Microsoft SQL Server Database engineers including database developers and administrators will learn how to identify performance issues troubleshoot the system in a holistic fashion and properly prioritize tuning efforts to attain the best system performance possible Author Dmitri Korotkevitch Microsoft Data Platform MVP and Microsoft Certified Master MCM explains the interdependencies between SQL Server database components You ll learn how to quickly diagnose your system and discover the root cause of any issue Techniques in this book are compatible with all versions of SQL Server and cover both on premises and cloud based SQL Server installations Discover how performance issues present themselves in SQL Server Learn about SQL Server diagnostic tools methods and technologies Perform health checks on SQL Server installations Learn the dependencies between SQL Server components Tune SQL Server to improve performance and reduce bottlenecks Detect poorly optimized queries and inefficiencies in query execution plans Find inefficient indexes and common database design issues Use these techniques with Microsoft Azure SQL databases Azure SQL Managed Instances and Amazon RDS for SQL Server *Learn SQL Server Administration in a Month of Lunches* Don Jones, 2014-04-30

Summary Learn SQL Server Administration in a Month of Lunches is the perfect way to get started with SQL Server operations including maintenance backup and recovery high availability and performance monitoring In about an hour a day over a month you ll learn exactly what you can do and what you shouldn t touch Most importantly you ll learn the day to day tasks and techniques you need to keep SQL Server humming along smoothly Purchase of the print book includes a free eBook in PDF Kindle and ePUB formats from Manning Publications About the Book Microsoft SQL Server is used by millions of businesses ranging in size from Fortune 500s to small shops worldwide Whether you re just getting started as a DBA supporting a SQL Server driven application or you ve been drafted by your office as the SQL Server admin you do not need a thousand page book to get up and running Learn SQL Server Administration in a Month of Lunches is the perfect way to get started with SQL Server This concise easy to read book skips academic introductions and teaches you day to day techniques for maintenance backup and recovery performance monitoring and more Each of the 21 short lessons gives you practical takeaways you ll use over and over What s Inside Master the basics indexes logins backup recovery and more Learn what you can and cannot do when supporting a third party application Monitor and improve performance Written by expert trainer and bestselling author Don Jones Accessible to readers of any level of experience the book covers techniques for all versions of SQLServer 2005 2014 About the Author Don Jones is a Microsoft MVP speaker and trainer He is the creator of the Month of Lunches series and author of over 50 books on PowerShell IIS Active Directory SCCM SQL Server and more Table of Contents Before you begin Server assessment and configuration T SQL crash course Managing databases Backup and recovery Authentication who are you Authorization what are you allowed to do Accounting what did you do Analyzing indexes Maintaining indexes Tuning index designs Reading query execution plans Block and deadlock analysis Automating management with SQL Server Agent Multiserver management Windows PowerShell and SQL Server Using Extended Events

Monitoring and analyzing performance Options for high availability Virtualizing SQL Server Moving migrating and upgrading databases SQL Server performance checklist Never the end *SQL Server Analysis Services 2012 Cube Development Cookbook* Baya Dewald,Steve Hughes,Paul Turley,2013-12-26 A practical cookbook packed with recipes to help developers produce data cubes as quickly as possible by following step by step instructions rather than explaining data mining concepts with SSAS If you are a BI or ETL developer using SQL Server Analysis services to build OLAP cubes this book is ideal for you Prior knowledge of relational databases and experience with Excel as well as SQL development is required **Microsoft**

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[Performance Optimization and Tuning Handbook](#) Ken England,2001-05-10 Learn from a SQL Server performance authority how to make your database run at lightning speed Ken England s SQL Server 6 5 Performance Optimization and Tuning Handbook is recognized by SQL Server administrators as the indispensable guide to tuning and optimization Now he s revised the book for Microsoft s new SQL Server 2000 the most advanced and powerful version yet of SQL Server which takes full advantage of Windows 2000 s new processing capabilities The book details the factors that determine database performance and offers readers tools techniques and best practices they can use to tweak and tune SQL Server s configuration and operation Readers will learn how to enhance performance through good physical design and effective internal storage structures The book spells out methods for creating efficient indexes and techniques for tuning SQL Server s new query optimizer A new edition of the authoritative and bestselling guide SQL Server 6 5 Performance Optimization and Tuning Handbook 1555581803 Targets SQL Server 2000 Helps IT professionals run SQL Server more powerfully and efficiently and optimize it for e commerce and knowledge management **Microsoft SQL Server 2014 Query Tuning & Optimization**

Benjamin Nevarez,2014-10-10 Optimize Microsoft SQL Server 2014 queries and applications Microsoft SQL Server 2014 Query Tuning Optimization is filled with ready to use techniques for creating high performance queries and applications The book describes the inner workings of the query processor so you can write better queries and provide the query processor with the quality information it needs to produce efficient execution plans You ll also get tips for troubleshooting underperforming queries In Memory OLTP Hekaton a key new feature of SQL Server 2014 is fully covered in this practical guide Understand how the query optimizer works Troubleshoot queries using extended events SQL trace dynamic management views DMVs the data collector and other tools Work with query operators for data access joins aggregations parallelism and updates Speed up queries and dramatically improve application performance by creating the right indexes Understand statistics and how to detect and fix cardinality estimation errors Maximize OLTP query performance using In Memory OLTP Hekaton features including memory optimized tables and natively compiled stored procedures Monitor and promote plan caching and reuse to improve application performance Improve the performance of

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