



# 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 Thaker Bihag

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## **Microsoft Sql Server 2012 Performance Tuning Cookbook Thaker Bihag:**

Microsoft SQL Server 2012 Performance Tuning Cookbook Ritesh Shah,2012-07-26 Over 80 recipes to help you tune SQL Server 2012 and achieve optimal performance      **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      **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      **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 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

**Microsoft SQL Server 7.0 Performance Tuning Technical Reference** Steve Adrien DeLuca,2000 Discover how to optimize your SQL Server 7 0 system for maximum performance and scalability Performance tuning a relational database can be challenging exciting and frustrating MICROSOFT SQL SERVER 7 0 PERFORMANCE TUNING TECHNICAL REFERENCE provides the practical information that database administrators need to configure a SQL Server 7 0 database for better faster more scalable solutions This is the only book about SQL Server 7 0 performance tuning co authored by engineers from the Microsoft SQL Server performance group The authors start with the basics and then build upon this information to teach the mechanics of performance tuning and how those mechanics affect the whole system What s more this book is unique in that it also teaches you how to optimize for the underlying operating system and hardware Expert Instruction helps you understand these topics Server tuning how to use the Enterprise Manager SQL Server Performance Monitor and Profiler to shorten transaction response times and how to optimize your database layout to get the best use of hardware resources Sizing and capacity planning how to model software and hardware usage to predict resource consumption plus how to perform what if scenarios about workload growth to avoid slow response times Configuring and tuning the system how to tune OLTP systems data warehouses and data marts and replicated systems and how to set up your system for high performance backup and recovery Tuning SQL statements how to get optimal performance by using the Query Analyzer and Profiler to tune SQL statements and stored procedures plus how to take advantage of indexes and hints

Microsoft SQL Server 2012 Integration Services Reza Rad,Pedro Perfeito,2012-01-01 Over 100 expert recipes to design create and deploy SSIS packages with this book and ebook **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 SQL Server 2008 R2 Administration Cookbook Satya Shyam K. Jayanty, 2011-05-24 Over 70 practical recipes for administering a high performance SQL Server 2008 R2 system with this book and eBook      *SQL Server T-SQL Recipes* David Dye, Jason Brimhall, Timothy Roberts, Wayne Sheffield, Joseph Sack, Jonathan Gennick, 2015-07-13 SQL Server T SQL Recipes is an example based guide to the Transact SQL language that is at the core of SQL Server This edition has been lightly updated for SQL Server 2014 and provides ready to implement solutions to common programming and database administration tasks Learn to create databases create in memory tables and stored procedures 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 managing indexes error handling and query performance 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 Lightly updated for SQL Server 2014 Comprehensive Covers all common T SQL problem domains      **SQL Performance Tuning** Peter Gulutzan, Trudy Pelzer, 2003 A very practical guide to making databases run faster and better A poorly performing database application can cost each user time and have an impact on other applications running on the same computer or the same network This book will help DBAUs and programmers improve the performance of their databases      **Professional SQL Server 2005 Performance Tuning** Steven Wort, Christian Bolton, Justin Langford, Michael Cape, Joshua J. Jin, Douglas Hinson, Haidong Ji, Paul A. Mestemaker, Arindam Sen, 2009-04-20 Written by a team of expert SQL users this comprehensive resource approaches performance tuning from a new perspective by showing you a methodical scientific approach to diagnose performance problems The book first walks you through how to discover bottlenecks when something is wrong and you ll then learn how to identify and remove the problems that are causing poor performance You ll discover preventive measures you can take to try to avoid a performance problem entirely and you ll learn how to achieve better performance      *The Microsoft SQL Server 2000 Performance Optimization and Tuning Handbook* Ken England, 2001-03-27 This new edition of the bestselling guide to a critical SQL server task teaches tools techniques and best practices readers can use to tune SQL Server 2000 s configuration and operation and learn how to enhance performance through good physical design effective internal storage structures and controlling SQL Server s new query optimizer      **Microsoft SQL Server 2000 Performance Tuning** Edward Whalen, 2001 This test measures the ability to install configure and administer SQL Server 2000 Candidates can sharpen their skills save time and money and build their confidence for the real test with this book and CD ROM      *SQL*

*Server Analytical Toolkit* Angelo Bobak,2023-10-02 Learn window function foundational concepts through a cookbook style approach beginning with an introduction to the OVER clause its various configurations in terms of how partitions and window frames are created and how data is sorted in the partition so that the window function can operate on the partition data sets You will build a toolkit based not only on the window functions but also on the performance tuning tools use of Microsoft Excel to graph results and future tools you can learn such as PowerBI SSIS and SSAS to enhance your data architecture skills This book goes beyond just showing how each function works It presents four unique use case scenarios sales financial engineering and inventory control related to statistical analysis data analysis and BI Each section is covered in three chapters one chapter for each of the window aggregate ranking and analytical function categories Each chapter includes several TSQL code examples and is re enforced with graphic output plus Microsoft Excel graphs created from the query output SQL Server estimated query plans are generated and described so you can see how SQL Server processes the query These together with IO TIME and PROFILE statistics are used to performance tune the query You will know how to use indexes and when not to use indexes You will learn how to use techniques such as creating report tables memory enhanced tables and creating clustered indexes to enhance performance And you will wrap up your learning with suggested steps related to business intelligence and its relevance to other Microsoft Tools such as Power BI and Analysis Services All code examples including code to create and load each of the databases are available online What You Will Learn Use SQL Server window functions in the context of statistical and data analysis Re purpose code so it can be modified for your unique applications Study use case scenarios that span four critical industries Get started with statistical data analysis and data mining using TSQL queries to dive deep into data Study discussions on statistics how to use SSMS SSAS performance tuning and TSQL queries using the OVER clause Follow prescriptive guidance on good coding standards to improve code legibility Who This Book Is For Intermediate to advanced SQL Server developers and data architects Technical and savvy business analysts who need to apply sophisticated data analysis for their business users and clients will also benefit This book offers critical tools and analysis techniques they can apply to their daily job in the disciplines of data mining data engineering and business intelligence *SQL Tuning* Dan Tow,2004 Generating optimal execution plans Cover **SQL Server Query**

**Performance Tuning Distilled** Sajal Dam,2007-03-01 A completely revised edition of a book that is highly regarded in the community as evidenced by Amazon reviews and other customer feedback The only comprehensive practical guide to performance optimization techniques for SQL Server applications Essential reading for any DBA or developer responsible for the eprformance of an exisiting SQL Server system or the design of a new one *Microsoft SQL Server 2014 Query Tuning & Optimization* Benjamin Nevarez,2014-10-07 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product 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 data warehouse queries using columnstore indexes Handle query processor limitations with hints and other methods

**Microsoft SQL Server 2012 Security Cookbook** Rudi Bruchez, 2012 Over 70 practical focused recipes to bullet proof your SQL Server database and protect it from hackers and security threats Practical focused recipes for securing your SQL Server database Master the latest techniques for data and code encryption user authentication and authorization protection against brute force attacks denial of service attacks and SQL Injection and more A learn by example recipe based approach that focuses on key concepts to provide the foundation to solve real world problems In Detail In 2011 a big corporation suffered a 23 day network outage after a breach of security that allowed the theft of millions of registered accounts on its gaming network A month later hackers claimed in a press release to have stolen personal information of 1 million users by a single SQL injection attack In these days of high profile hacking SQL Server 2012 database security has become of prime importance Microsoft SQL Server 2012 Security Cookbook will show you how to secure your database using cutting edge methods and protect it from hackers and other security threats You will learn the latest techniques for data and code encryption user authentication and authorization protection against brute force attacks denial of service attacks and SQL Injection securing business intelligence and more We will start with securing SQL Server right from the point where you install it You will learn to secure your server and network with recipes such as managing service SIDs configuring a firewall for SQL Server access and encrypting the session by SSL We will then address internal security creating logins to connect to SQL Server and users to gain access to a database We will also see how to grant privileges to securable objects on the server or inside the database After having managed authentication through logins and users we will assign privileges inside a database using permissions We will then learn about symmetric keys asymmetric keys and certificates which can be used to encrypt data or sign data and modules with a choice of cipher algorithms as well as creating hash representations of data Then we will cover methods to protect your database against brute force attacks denial of service attacks and SQL Injection Finally we will learn about auditing and compliance and securing SQL Server Analysis

Services SSAS and Reporting Services SSRS What you will learn from this book Start securing your database right from the first step when you install it Protect your database against brute force attacks denial of service attacks and SQL Injection Secure SQL Server Analysis Services SSAS and Reporting Services SSRS Use a SQL or Web Application Firewall Perform user authentication and authorization Manage object ownership and protect data through views and stored procedures Create and use certificates and symmetric and asymmetric encryption keys Authenticate stored procedures by signatures Monitor SQL Server logs and use DML and DDL trigger for auditing Configure SQL Server database audit and manage audit resilience after a crash Approach Each recipe comprises step by step instructions followed by an analysis of what was done in each task and other useful information The book is designed so that you can read it chapter by chapter or look at the list of recipes and refer to them in no particular order Each example comes with its expected output to make your learning even easier thus enabling you to successfully secure your SQL Server 2012 database Who this book is written for This book is for SQL Server administrators developers and consultants who want to secure their SQL Server database with cutting edge techniques for data and code encryption user authentication and authorization protection against brute force attacks denial of service attacks and SQL Injection securing business intelligence and more Working knowledge of SQL Server is expected

*Microsoft SQL Server 2008 R2 Administration Cookbook* Satya Shyam K. Jayanty, 2015-05-13 This book offers practical task based and immediately usable recipes covering a wide range of advanced techniques for administering a high performance SQL Server 2008 R2 system In addition to its cookbook style which ensures the solutions are presented in a clear step by step manner its explanations go into great detail which makes it good learning material for everyone who has experience in SQL Server and wants to improve The book is designed in such a way that you can either read it chapter by chapter or refer to recipes that you want in no particular order Although the book is focused on specific Microsoft SQL Server 2008 R2 most of the concepts and explanations are also applicable to SQL Server 2008 If you are an experienced database administrator and database architect who wants to design administer and manage a scalable and high performance SQL Server 2008 R2 system then this book is for you The book assumes that you have a good understanding of database management systems specifically experience in Microsoft SQL Server 2008 administration



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