



# 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

**Ken England**



## **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 Query Performance Tuning** Grant Fritchey, 2014-09-16 Queries not running

fast enough Wondering about the in memory database features in 2014 Tired of phone calls from frustrated users Grant Fritchey's book *SQL Server 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 especially including the newly added in memory database features formerly known under the code name Project Hekaton This book provides the tools you need to approach your queries with performance in mind *SQL Server 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 Query Performance Tuning* into practice today Covers the in memory features from Project Hekaton Helps establish performance baselines and monitor against them Guides in troubleshooting and eliminating of bottlenecks that frustrate users

**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 2012 T-SQL Recipes* Jason Brimhall, David Dye, Timothy Roberts, Wayne Sheffield, Jonathan Gennick, Joseph Sack, 2012-09-11 *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 Advanced Troubleshooting and Performance Tuning* Dmitri Korotkevitch, 2022-05-13 This practical book provides a comprehensive overview of troubleshooting and performance 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

**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 **The SQL Server**

**6.5 Performance Optimization and Tuning Handbook** Ken England,1997 The SQL Server 6 5 Performance Optimization and Tuning Handbook takes a detailed look at the factors that influence database performance beginning with good physical design The internal storage structures are covered next because an understanding of these is essential to performance tuning The critical subject of indexes is then discussed followed by the query optimizer which is perhaps the most crucial SQL Server performance topic Making mistakes in these areas can mean the difference between a query taking seconds or literally hours SQL Server is highly integrated with Windows NT and so it is crucial that it and Windows NT are both optimized to work together The book covers the extent of this integration how to detect CPU memory and disk bottlenecks and how to overcome them In a multi user system the biggest performance headache is probably locking and this subject is discussed in detail with many example scenarios Once an efficient physical design has been obtained it is necessary to monitor performance and a chapter is devoted to the performance monitoring tools available with SQL Server Finally a performance tuning and optimization checklist is provided as an aid for the database administrator Follow up to The SQL Server Handbook Detailed look at factors that influence database performance Covers internal storage structures indexes and integrating SQL with Windows NT

**SQL Tuning** Dan Tow,2003-11-19 A poorly performing database application not only costs users time but also has an impact on other applications running on the same computer or the same network SQL Tuning provides an essential next step for SQL developers and database administrators who want to extend their SQL tuning expertise and get the most from their database applications There are two basic issues to focus on when tuning SQL how to find and interpret the execution plan of an SQL statement and how to change SQL to get a specific alternate execution plan SQL Tuning provides answers to these questions and addresses a third issue that s even more important how to find the optimal execution plan for the query to use Author Dan Tow outlines a timesaving method he s developed for finding the optimum execution plan rapidly and systematically regardless of the complexity of the SQL or the database platform being used You ll learn how to understand and control SQL execution plans and how to diagram SQL queries to deduce the best execution plan for a query Key chapters in the book include exercises to reinforce the concepts you ve learned SQL Tuning concludes by addressing special concerns and unique solutions to unsolvable problems Whether you are a programmer who develops SQL based applications or a database administrator or other who troubleshoots poorly tuned applications SQL Tuning will arm you with a reliable and deterministic method for tuning your SQL queries to gain optimal performance

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

*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 DBAs and programmers improve the performance of their databases

**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

**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

Professional SQL Server 2005 Performance Tuning Steven Wort, 2008-01-29 This guide shows how to diagnose and fix SQL Server performance problems

The focus is on helping readers find and identify performance problems and the full database lifecycle is covered to help administrators handle performance issues that are often overlooked The book covers specifics then helps in locating slow queries

**Performance Tuning with SQL Server Dynamic Management Views** Louis Davidson, Tim Ford, 2010

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 lead 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 de mystify 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

**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 **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 **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



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