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Expert Performance Indexing in SQL Server

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Jason Strate and Grant Fritchey

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Expert Performance Indexing In Sql Server

Grant Fritchey



Expert Performance Indexing In Sql Server:

Expert Performance Indexing in SQL Server Jason Strate, Grant Fritchey, 2015 This book is a deep dive into perhaps the single most important facet of good performance indexes and how to best use them The book begins in the shallow waters with explanations of the types of indexes and how they are stored in databases Moving deeper into the topic and further into the book you will look at the statistics that are accumulated both by indexes and on indexes You ll better understand what indexes are doing in the database and what can be done to mitigate and improve their effect on performance The final destination is a guided tour through a number of real life scenarios showing approaches you can take to investigate mitigate and improve the performance of your database Defines the types of indexes and their implementation options Provides use cases and common patterns in applying indexing Describes and explain the index metadata and statistics Provides a framework of strategies and approaches for indexing databases

Expert Performance Indexing for SQL Server 2012

Jason Strate, Ted Krueger, 2012-09-07 *Expert Performance Indexing for SQL Server 2012* is a deep dive into perhaps the single most important facet of good performance indexes and how to best use them The book begins in the shallow waters with explanations of the types of indexes and how they are stored in databases Moving deeper into the topic and further into the book you will look at the statistics that are accumulated both by indexes and on indexes All of this will help you progress towards properly achieving your database performance goals What you ll learn from *Expert Performance Indexing for SQL Server 2012* will help you understand what indexes are doing in the database and what can be done to mitigate and improve their effects on performance The final destination is a guided tour through a number of real world scenarios and approaches that can be taken to investigate mitigate and improve the performance of your database Defines indexes and provides an understanding of their role Uncovers and explains the statistics that are kept in indexes Teaches strategies and approaches for indexing databases

Expert Performance Indexing for SQL Server 2012 Springer, 2012-09-24

Expert Performance Indexing in SQL Server 2019 Jason Strate, 2019-11-29 Take a deep dive into perhaps the single most important facet of good performance indexes and how to best use them Recent updates to SQL Server have made it possible to create indexes in situations that in the past would have prevented their use Other improvements covered in this book include new dynamic management views the ability to pause and resume index maintenance and the ability to more easily recover from failures during index creation and maintenance operations This new edition also brings new content around the indexing of columnstore and in memory tables showing how these new types of tables and the queries that execute against them can also benefit from good indexing practices The book begins with explanations of the types of indexes and how they are stored in databases Moving deeper into the topic and further into the book you will look at the statistics that are accumulated both by indexes and on indexes You will better understand what indexes are doing in the database and what can be done to mitigate and improve their effect on performance You will get a look at the Index Advisor now available in Azure

SQL Database and learn how to review and maintain the health of your indexes The final chapters present a guided tour through a number of scenarios showing approaches you can take to investigate mitigate and improve the performance of your database What You Will Learn Properly index row store columnstore and in memory tables Review statistics to understand indexing choices made by the optimizer Apply indexing strategies such as covering indexes included columns and index intersections Recognize and remove unnecessary indexes Design effective indexes for full text spatial and XML data types Manage the big picture Encompass all indexes in a database and all database instances on a server Who This Book Is For Database administrators and developers who are ready to lift the performance of their database environment by thoughtfully building indexes to speed up queries that matter the most and make a difference to the business *Expert Performance Indexing in SQL Server* Jason Strate, Grant Fritchey, 2015-11-11 This book is a deep dive into perhaps the single most important facet of good performance indexes and how to best use them The book begins in the shallow waters with explanations of the types of indexes and how they are stored in databases Moving deeper into the topic and further into the book you will look at the statistics that are accumulated both by indexes and on indexes You ll better understand what indexes are doing in the database and what can be done to mitigate and improve their effect on performance The final destination is a guided tour through a number of real life scenarios showing approaches you can take to investigate mitigate and improve the performance of your database Defines the types of indexes and their implementation options Provides use cases and common patterns in applying indexing Describes and explain the index metadata and statistics Provides a framework of strategies and approaches for indexing databases [Expert Performance Indexing in SQL Server 2019](#) Jason Strate, 2019-11-28 Take a deep dive into perhaps the single most important facet of good performance indexes and how to best use them Recent updates to SQL Server have made it possible to create indexes in situations that in the past would have prevented their use Other improvements covered in this book include new dynamic management views the ability to pause and resume index maintenance and the ability to more easily recover from failures during index creation and maintenance operations This new edition also brings new content around the indexing of columnstore and in memory tables showing how these new types of tables and the queries that execute against them can also benefit from good indexing practices The book begins with explanations of the types of indexes and how they are stored in databases Moving deeper into the topic and further into the book you will look at the statistics that are accumulated both by indexes and on indexes You will better understand what indexes are doing in the database and what can be done to mitigate and improve their effect on performance You will get a look at the Index Advisor now available in Azure SQL Database and learn how to review and maintain the health of your indexes The final chapters present a guided tour through a number of scenarios showing approaches you can take to investigate mitigate and improve the performance of your database What You Will Learn Properly index row store columnstore and in memory tables Review statistics to understand indexing choices made by the optimizer

Apply indexing strategies such as covering indexes included columns and index intersections Recognize and remove unnecessary indexes Design effective indexes for full text spatial and XML data types Manage the big picture Encompass all indexes in a database and all database instances on a server Who This Book Is For Database administrators and developers who are ready to lift the performance of their database environment by thoughtfully building indexes to speed up queries that matter the most and make a difference to the business

Expert Performance Indexing in Azure SQL and SQL Server 2022 Edward Pollack, Jason Strate, 2023 Take a deep dive into perhaps the single most important facet of query performance indexes and how to best use them Newly updated for SQL Server 2022 and Azure SQL this fourth edition includes new guidance and features related to columnstore indexes improved and consolidated content on Query Store deeper content around Intelligent Query Processing and other updates to help you optimize query execution and make performance improvements to even the most challenging workloads The book begins with explanations of the types of indexes and how they are stored in a database Moving further into the book you will learn how statistics are critical for optimal index usage and how the Index Advisor can assist in reviewing and optimizing index health This book helps you build a clear understanding of how indexes work how to implement and use them and the many options available to tame even the most large and complex workloads What You Will Learn Properly index row store columnstore and memory optimized tables Make use of Intelligent Query Processing for faster query results Review statistics to understand indexing choices made by the optimizer Apply indexing strategies such as covering indexes included columns and index intersections Recognize and remove unnecessary indexes Design effective indexes for full text spatial and XML data types

Pro SQL Server 2012 Practices Chris Shaw, Grant Fritchey, Carlos Bossy, Jeremy Lowell, Gail Shaw, Jesper Johansen, Mladen Prajdi, Wendy Pastrick, Kellyn Pot'Vin, Jason Strate, Herve Roggero, TJay Belt, Jonathan Gardner, Glenn Berry, Bradley Ball, Jes Borland, Ben DeBow, Louis Davidson, 2012-11-29 Pro SQL Server 2012 Practices is an anthology of high end wisdom from a group of accomplished database administrators who are quietly but relentlessly pushing the performance and feature envelope of Microsoft SQL Server 2012 With an emphasis upon performance but also branching into release management auditing and other issues the book helps you deliver the most value for your company's investment in Microsoft's flagship database system Goes beyond the manual to cover good techniques and best practices Delivers knowledge usually gained only by hard experience Focuses upon performance scalability reliability Helps achieve the predictability needed to be in control at all times

SQL Server 2017 Query Performance Tuning Grant Fritchey, 2018-09-03 Identify and fix causes of poor performance You will learn Query Store adaptive execution plans and automated tuning on the Microsoft Azure SQL Database platform Anyone responsible for writing or creating T SQL queries will find valuable the insight into bottlenecks including how to recognize them and eliminate them This book covers the latest in performance optimization features and techniques and is current with SQL Server 2017 If your queries are not running fast enough and you're tired of phone calls

from frustrated users then this book is the answer to your performance problems SQL Server 2017 Query Performance Tuning is about more than quick tips and fixes You ll learn to be proactive in establishing performance baselines using tools such as Performance Monitor and Extended Events You ll 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 The goal is to head off trouble before it occurs What You ll Learn Use Query Store to understand and easily change query performance Recognize and eliminate bottlenecks leading to slow performance Deploy quick fixes when needed following up with long term solutions Implement best practices in T SQL to minimize performance risk Design in the performance that you need through careful query and index design Utilize the latest performance optimization features in SQL Server 2017 Protect query performance during upgrades to the newer versions of SQL Server Who This Book Is For Developers and database administrators with responsibility for application performance in SQL Server environments Anyone responsible for writing or creating T SQL queries will find valuable the insight into bottlenecks including how to recognize them and eliminate them SQL Server 2022 Query Performance Tuning Grant Fritchey,2022-11-20 Troubleshoot slow performing queries and make them run faster Database administrators and SQL developers are constantly under pressure to provide more speed This new edition has been redesigned and rewritten from scratch based on the last 15 years of learning knowledge and experience accumulated by the author The book Includes expanded information on using extended events automatic execution plan correction and other advanced features now available in SQL Server These modern features are covered while still providing the necessary fundamentals to better understand how statistics and indexes affect query performance The book gives you knowledge and tools to help you identify poorly performing queries and understand the possible causes of that poor performance The book also provides mechanisms for resolving the issues identified whether on premises in containers or on cloud platform providers You ll learn about key fundamentals such as statistics data distribution cardinality and parameter sniffing You ll learn to analyze and design your indexes and your queries using best practices that ward off performance problems before they occur You ll also learn to use important modern features such as Query Store to manage and control execution plans the automated performance tuning feature set and memory optimized OLTP tables and procedures You will be able to troubleshoot in a systematic way Query tuning doesn t have to be difficult This book helps you to make it much easier What You Will Learn Use Query Store to understand and easily change query performance Recognize and eliminate bottlenecks leading to slow performance Tune queries whether on premises in containers or on cloud platform providers Implement best practices in T SQL to minimize performance risk Design in the performance that you need through careful query and index design Understand how built in automatic tuning can assist your performance enhancement efforts Protect query performance during upgrades to the newer versions of SQL Server Who This Book Is For Developers and database administrators with responsibility for query performance in SQL Server environments and anyone responsible for writing or

creating T SQL queries and in need of insight into bottlenecks including how to identify them understand them and eliminate them

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 2025 Query Performance Tuning Grant Fritchey, 2026-04-25 A new era of SQL Server is here and this latest edition of Grant Fritchey's best selling dive into SQL Server query performance can ensure your queries keep up The fundamentals are still here You'll learn how statistics and indexes impact performance how to identify poorly performing queries and how to discover effective solutions But this new edition also includes advanced features unique to SQL Server 2025 such as AI integration for automatic tuning insights on using extended events automatic execution plan correction and more It's a must have resource designed to empower you to troubleshoot slow performing queries and make them run faster than ever The book is a treasure trove of instruction insight and advice As you dive in you'll encounter key fundamentals from statistics and data distribution to cardinality and parameter sniffing and learn to analyze and design your indexes and queries using best practices that prevent performance problems before they occur You'll also explore advanced features like Query Store for managing and controlling execution plans automated performance tuning and memory optimized OLTP tables and procedures and learn how SQL Server 2025 makes it all more powerful and automatable than ever What You Will Learn Use Query Store to understand and easily change query performance Recognize and eliminate bottlenecks leading to slow performance Tune queries whether on premises in containers or on cloud platform providers Implement best practices in T SQL to minimize performance risk Design in the performance that you need through careful query and index design Understand how built in automatic tuning can assist your performance enhancement efforts Protect query performance during upgrades to the newer versions of SQL Server Who This Book Is For Developers and database administrators with responsibility for query performance in SQL Server environments and anyone responsible for writing or creating T SQL

queries and in need of insight into bottlenecks including how to identify them understand them and eliminate them **SQL Server 2000** Jeffrey R. Shapiro,2000 This reference empowers beginning to advanced SQL Server DBAs and developers with clear tips and great techniques to more effectively design databases maintain their peak efficiency and simplify long term administration Covers basic to advanced topics important throughout the enterprise 10 illustrations Microsoft BackOffice 4.5 Resource Kit Microsoft Corporation,1999 A must have for the IT professional charged with planning installing and optimizing the latest versions of Microsoft Systems Management Server SQL Server and SNA Server this comprehensive kit details every critical aspect of the deployment cycle The CD ROM features software tools and utilities *Visual Basic 4 Expert Solutions* Stephen Potts,1995 An advanced tutorial on some of the most problematic areas of Visual Basic application development Written by a team of special authors each chapter covers topics in their areas of expertise Features a CD with all the source code from the book plus multimedia audio video clips 32 bit OLE custom controls and more *Expert Oracle JDBC Programming* R.M. Menon,2005-06 First book on the market that covers building high performance Java applications on the Oracle database using the latest versions of both the Oracle database 10g and the JDBC API 3 0 Promotes and explains an anti black box approach to Oracle development complete with benchmark code that will allow developers to write highly efficient high performance Oracle JDBC applications A new book from the prestigious OakTable Press which Apress will be strongly promoting and supporting throughout 2004 **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 **Expert Indexing in Oracle Database 11g** Darl Kuhn,Sam Alapati,Bill Padfield,2012-03-23 Expert Indexing in Oracle Database 11g is about the one database structure at the heart of almost all performance concerns the index Database system performance is one of the top concerns in information technology today Administrators struggle to keep up with the explosion of access and activity driven by the proliferation of computing into everything from phones to tablets to PCs in our increasingly connected world At the heart of any good performing database

lies a sound indexing strategy that makes appropriate use of indexing and especially of the vendor specific indexing features on offer Few databases fully exploit the wealth of data access mechanisms provided by Oracle Expert Indexing in Oracle Database 11g helps by bringing together information indexing and how to use it into one convenient and blissfully short volume that you can read quickly and have at your fingertips for reference Learn the different types of indices available and when each is best applied Recognize when queries aren't using indices as you intend Manage your indexing for maximum performance Let Expert Indexing in Oracle Database 11g be your guide to deep mastery of the most fundamental performance optimization structure in Oracle Database Explains how indices work how they help and how they hinder Demystifies the various index choices Describes the database administration chores associated with indices [Microsoft SQL Server 2005: The Complete Reference](#) Jeffrey Shapiro, 2006-12-08 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 SQL Server 2005 is Microsoft's next generation data management and analysis software designed to deliver increased scalability availability and security to enterprise data and analytical applications while making them easier to create deploy and manage Filled with practical solutions and real world examples this resource includes full details on Enterprise data management capabilities including security and clustering Powerful developer tools T SQL NET CLR XML ADO NET 2.0 Business Intelligence features such as Integration Services data warehousing and reports [10 Projects You Can Do with Microsoft, SQL Server 7](#) Karen Watterson, Bill Shadish, Garth Wells, 2000-04-10 Learn Microsoft SQL Server 7 by successfully completing hands on projects You don't have to be a fortune teller to realize that Microsoft's SQL Server 7 is going to be the most widely used database product on the planet This book unlike typical reference books shows you how to use SQL Server to add value to your business operations Drawing inspiration from the lab manuals you used in biology and earth science classes the authors provide step by step instructions for accomplishing the kinds of projects you'll want to do with SQL Server Here's a taste of some of the projects How to build an e-commerce site with Site Server Commerce Edition Implementing a data driven Intranet with SQL Server and IIS Creating both single source and multisource data marts Working with OLAP Services and a variety of OLAP clients Writing Visual Basic applications that work with SQL Server Plus two CD Roms CD ROM 1 contains Microsoft SQL Server 7.0 120 Day Evaluation Edition CD ROM 2 contains all the code from the book example applications 18 third party Development tools and links to related Web sites

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