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# Query Store For Sql Server 2019 Identify And Fix

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*Query Store For Sql Server 2019 Identify And Fix 2020-04-24*

## **ROBERTS HEAVEN**

Expert Performance Indexing in SQL Server 2019 "O'Reilly Media, Inc." 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

<p>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</p>	<p><u>MySQL Cookbook</u> Microsoft Press Explore the impressive storage and analytic tools available with the in-cloud and on-premises versions of Microsoft SQL Server 2019. Key FeaturesGain insights into what’s new in SQL Server 2019Understand use cases and customer scenarios that can be implemented with SQL Server 2019Discover new cross-platform tools that simplify</p>	<p>management and analysisBook Description Microsoft SQL Server comes equipped with industry-leading features and the best online transaction processing capabilities. If you are looking to work with data processing and management, getting up to speed with Microsoft Server 2019 is key. Introducing SQL Server 2019 takes you through the latest features in</p>
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SQL Server 2019 and their importance. You will learn to unlock faster querying speeds and understand how to leverage the new and improved security features to build robust data management solutions. Further chapters will assist you with integrating, managing, and analyzing all data, including relational, NoSQL, and unstructured big data using SQL Server 2019. Dedicated sections in the book will also demonstrate how you can use SQL Server 2019 to leverage data processing platforms, such as Apache Hadoop and Spark, and containerization technologies like Docker and Kubernetes to control your data and efficiently monitor it. By the end of this book, you'll be well versed with all the features of Microsoft SQL Server 2019 and understand how to use them confidently to build robust data management solutions. What you will learn Build a custom container image with a Dockerfile Deploy and run the SQL Server 2019 container image Understand how to use SQL server on Linux Migrate existing paginated reports to Power BI Report Server Learn to query Hadoop Distributed

<p>File System (HDFS) data using Azure Data Studio and the benefits of In-Memory OLTP. Who this book is for: This book is for database administrators, architects, big data engineers, or anyone who has experience with SQL Server and wants to explore and implement the new features in SQL Server 2019. Basic working knowledge of SQL Server and relational database</p>	<p>management system (RDBMS) is required. <i>Expert SQL Server Transactions and Locking</i> Red Gate Software Improve your ability to develop, manage, and troubleshoot SQL Server solutions by learning how different components work “under the hood,” and how they communicate with each other. The detailed knowledge helps in implementing and maintaining</p>	<p>high-throughput databases critical to your business and its customers. You’ll learn how to identify the root cause of each problem and understand how different design and implementation decisions affect performance of your systems. New in this second edition is coverage of SQL Server 2016 Internals, including In-Memory OLTP, columnstore enhancements, Operational</p>
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<p>Analytics support, Query Store, JSON, temporal tables, stretch databases, security features, and other improvements in the new SQL Server version. The knowledge also can be applied to Microsoft Azure SQL Databases that share the same code with SQL Server 2016. Pro SQL Server Internals is a book for developers and database administrators , and it covers</p>	<p>multiple SQL Server versions starting with SQL Server 2005 and going all the way up to the recently released SQL Server 2016. The book provides a solid road map for understanding the depth and power of the SQL Server database server and teaches how to get the most from the platform and keep your databases running at the level needed to support your business. The book: •</p>	<p>Provides detailed knowledge of new SQL Server 2016 features and enhancements</p> <ul style="list-style-type: none"> <li>• Includes revamped coverage of columnstore indexes and In-Memory OLTP</li> <li>• Covers indexing and transaction strategies</li> <li>• Shows how various database objects and technologies are implemented internally, and when they should or should not be used</li> <li>• Demonstrates how SQL Server</li> </ul>
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executes queries and works with data and transaction log What You Will Learn Design and develop database solutions with SQL Server. Troubleshoot design, concurrency, and performance issues. Choose the right database objects and technologies for the job. Reduce costs and improve availability and manageability . Design disaster recovery and high-

availability strategies. Improve performance of OLTP and data warehouse systems through in-memory OLTP and Columnstore indexes. Who This Book Is For Developers and database administrators who want to design, develop, and maintain systems in a way that gets the most from SQL Server. This book is an excellent choice for people who prefer to understand

and fix the root cause of a problem rather than applying a 'band aid' to it. *SQL Server 2016 Developer's Guide* Packt Publishing Ltd Master SQL Server's Concurrency Model so you can implement high-throughput systems that deliver transactional consistency to your application customers. This book explains how to troubleshoot and address

blocking problems and deadlocks, and write code and design database schemas to minimize concurrency issues in the systems you develop. SQL Server's Concurrency Model is one of the least understood parts of the SQL Server Database Engine. Almost every SQL Server system experiences hard-to-explain concurrency and blocking issues, and it can be extremely confusing to solve those issues without a base of knowledge in the internals of the Engine. While confusing from the outside, the SQL Server Concurrency Model is based on several well-defined principles that are covered in this book. Understanding the internals surrounding SQL Server's Concurrency Model helps you build high-throughput systems in multi-user environments.

This book guides you through the Concurrency Model and elaborates how SQL Server supports transactional consistency in the databases. The book covers all versions of SQL Server, including Microsoft Azure SQL Database, and it includes coverage of new technologies such as In-Memory OLTP and Columnstore Indexes. What You'll Learn Know how



<p>transaction isolation levels affect locking behavior and concurrency Troubleshoot and address blocking issues and deadlocks Provide required data consistency while minimizing concurrency issues Design efficient transaction strategies that lead to scalable code Reduce concurrency problems through good schema design Understand concurrency models for In- Memory OLTP</p>	<p>and Columnstore Indexes Reduce blocking during index maintenance, batch data load, and similar tasks Who This Book Is For SQL Server developers, database administrators , and application architects who are developing highly- concurrent applications. The book is for anyone interested in the technical aspects of creating and troubleshootin g high-</p>	<p>throughput systems that respond swiftly to user requests. <i>Mastering SQL Server Profiler</i> Apress Your essential guide to key programming features in Microsoft SQL Server 2012 Take your database programming skills to a new level—and build customized applications using the developer tools introduced with SQL Server 2012. This hands-on reference shows you how to design,</p>
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test, and deploy SQL Server databases through tutorials, practical examples, and code samples. If you're an experienced SQL Server developer, this book is a must-read for learning how to design and build effective SQL Server 2012 applications. Discover how to: Build and deploy databases using the SQL Server Data Tools IDE Query and manipulate complex data with powerful

Transact-SQL enhancements Integrate non-relational features, including native file streaming and geospatial data types Consume data with Microsoft ADO.NET, LINQ, and Entity Framework Deliver data using Windows Communication Foundation (WCF) Data Services and WCF RIA Services Move your database to the cloud with Windows Azure SQL Database Develop Windows

Phone cloud applications using SQL Data Sync Use SQL Server BI components, including xVelocity in-memory technologies [SQL Server Query Tuning and Optimization](#) Microsoft Press Design and configure SQL Server instances and databases in support of high-throughput, mission-critical applications providing consistent response times in the face of

variations in numbers of users and query volumes. In this new edition, with over 100 pages of additional content, every original chapter has been updated for SQL Server 2019, and the book also includes two new chapters covering SQL Server on Linux and Intelligent Query Processing. This book shows you how to configure SQL Server and design your databases to

support a given instance and workload. You will learn advanced configuration options, in-memory technologies, storage and disk configuration, and more, all aimed 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 you in detecting and fixing production performance problems and minimizing application outages. You will learn about a variety of tools, ranging from the traditional wait analysis methodology to the query store or indexing, and you will learn how improving performance is an iterative process. This

book is an excellent complement to query performance tuning books and provides the other half of what you need to know by focusing on configuring the instances on which mission-critical queries are executed. 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 problems Who This Book Is For SQL Server database administrators, developers, and data

architects. The book is also of use to system administrators who are managing and are responsible for the physical servers on which SQL Server instances are run.

### **The Art of High Performance SQL Code**

Apres 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

<p>them, and eliminate them) <i>SQL Cookbook</i> Apress Discover how you can migrate a traditional on-premise SQL server database to a cloud-based solution with Microsoft Azure. Built with database administrators in mind, this book emulates different scenarios you might come across while working with large, complex SQL database migrations and provides solutions for effectively managing the</p>	<p>migrated databases. Key Features Implement backup, restore, and recovery of Azure SQL databases Create shards and elastic pools to scale Azure SQL databases Automate common management tasks with PowerShell Implement over 40 practical activities and exercises across 24 topics to reinforce your learning Book Description As the cloud version of SQL Server, Azure</p>	<p>SQL Database differs in key ways when it comes to management, maintenance, and administration . It's important to know how to administer SQL Database to fully benefit from all of the features and functionality that it provides. This book addresses important aspects of an Azure SQL Database instance such as migration, backup restorations, pricing policies, security, scalability,</p>
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monitoring, performance optimization, high availability, and disaster recovery. It is a complete guide for database administrators, and ideal for those who are planning to migrate from on premise SQL Server database to an Azure SQL Server database. What you will learn Learn how to provision a new database or migrate an existing on-premise solution Understand how to

backup, restore, secure, and scale your own Azure SQL Database Optimize the performance by monitoring and tuning your cloud-based SQL instance Implement high availability and disaster recovery procedures with SQL Database Develop a roadmap for your own scalable cloud solution with Azure SQL Database Who this book is for This book is ideal for database

administrators, database developers, or application developers who are interested in developing or migrating existing applications with Azure SQL Database. Prior experience of working with an on-premise SQL Server deployment and brief knowledge of PowerShell and C# are recommended prerequisites. **SQL Server Advanced Troubleshooting and Performance Tuning** Microsoft



Press Execution plans show you what's going on behind the scenes in SQL Server. They can provide you with a wealth of information on how your queries are being executed by SQL Server, including: Which indexes are being used, and where no indexes are being used at all. How the data is being retrieved, and joined, from the tables defined in your query. How aggregations

in GROUP BY queries are put together. The anticipated load and the estimated cost that all these operations place upon the system. Grant Fritchey's book is the only in-depth look at how to improve your SQL query performance through careful design of execution plans. Sample chapters of the ebook have garnered stunning reviews, such as: "All I can say is WOW. This has to be the best

reference I have ever seen on Execution Plans in SQL Server. My hats off to Grant Fritchey" Jonathan Kehayias. [Exam Ref 70-761 Querying Data with Transact-SQL](#) Pearson Education Ace your preparation for Microsoft® Certification Exam 70-461 with this 2-in-1 Training Kit from Microsoft Press®. Work at your own pace through a series of lessons and practical

exercises, and then assess your skills with practice tests on CD—featuring multiple, customizable testing options. Maximize your performance on the exam by learning how to: Create database objects Work with data Modify data Troubleshoot and optimize queries You also get an exam discount voucher—making this book an exceptional value and a great career investment.

**Learn Dbatools in a**

**Month of Lunches**  
 "O'Reilly Media, Inc."  
 Get the most out of the rich development capabilities of SQL Server 2016 to build efficient database applications for your organization  
 About This Book Utilize the new enhancements in Transact-SQL and security features in SQL Server 2016 to build efficient database applications  
 Work with temporal tables to get information

about data stored in the table at any point in time A detailed guide to SQL Server 2016, introducing you to multiple new features and enhancements to improve your overall development experience  
 Who This Book Is For This book is for database developers and solution architects who plan to use the new SQL Server 2016 features for developing efficient database applications. It is also ideal

<p>for experienced SQL Server developers who want to switch to SQL Server 2016 for its rich development capabilities. Some understanding of the basic database concepts and Transact-SQL language is assumed. What You Will Learn Explore the new development features introduced in SQL Server 2016 Identify opportunities for In-Memory OLTP technology, significantly enhanced in</p>	<p>SQL Server 2016 Use columnstore indexes to get significant storage and performance improvements Extend database design solutions using temporal tables Exchange JSON data between applications and SQL Server in a more efficient way Migrate historical data transparently and securely to Microsoft Azure by using Stretch Database Use the new security</p>	<p>features to encrypt or to have more granular control over access to rows in a table Simplify performance troubleshooting with Query Store Discover the potential of R's integration with SQL Server In Detail Microsoft SQL Server 2016 is considered the biggest leap in the data platform history of the Microsoft, in the ongoing era of Big Data and data science. Compared to its</p>
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predecessors, SQL Server 2016 offers developers a unique opportunity to leverage the advanced features and build applications that are robust, scalable, and easy to administer. This book introduces you to new features of SQL Server 2016 which will open a completely new set of possibilities for you as a developer. It prepares you for the more advanced topics by

starting with a quick introduction to SQL Server 2016's new features and a recapitulation of the possibilities you may have already explored with previous versions of SQL Server. The next part introduces you to small delights in the Transact-SQL language and then switches to a completely new technology inside SQL Server - JSON support. We also take a look at the Stretch

database, security enhancements, and temporal tables. The last chapters concentrate on implementing advanced topics, including Query Store, columnstore indexes, and In-Memory OLTP. You will finally be introduced to R and how to use the R language with Transact-SQL for data exploration and analysis. By the end of this book, you will have the required information to design

efficient, high-performance database applications without any hassle. Style and approach This book is a detailed guide to mastering the development features offered by SQL Server 2016, with a unique learn-as-you-do approach. All the concepts are explained in a very easy-to-understand manner and are supplemented with examples to ensure that you—the developer—are able to take that next step

in building more powerful, robust applications for your organization with ease. SQL Server 2022 Query Performance Tuning "O'Reilly Media, Inc." Every action in SQL Server - queries, updates, whatever - leaves a set of tiny footprints; SQL Server records all that valuable data and makes it visible through Dynamic Management Views, or DMVs. A DBA

or developer can use this incredibly detailed information to significantly improve the performance of queries and better understand what's really going on inside a SQL Server system. SQL Server DMVs in Action is a practical guide that shows how to obtain, interpret, and act on the information captured by DMVs to keep SQL Server in top shape. The 100+ samples provided in this book will

help readers master DMVs and also give them a tested, working, and instantly reusable SQL code library. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

[Learn T-SQL Querying](#)

Apress  
Design and write simple and efficient T-SQL code in SQL Server 2019 and beyond.  
Writing T-SQL that pulls back correct results

can be challenging. This book provides the help you need in writing T-SQL that performs fast and is easy to maintain. You also will learn how to implement version control, testing, and deployment strategies. Hands-on examples show modern T-SQL practices and provide straightforward explanations. Attention is given to selecting the right data types and

objects when designing T-SQL solutions.  
Author Elizabeth Noble teaches you how to improve your T-SQL performance through good design practices that benefit programmers and ultimately the users of the applications. You will know the common pitfalls of writing T-SQL and how to avoid those pitfalls going forward. What You Will Learn Choose correct data types and database

objects when designing T-SQL Write T-SQL that searches data efficiently and uses hardware effectively Implement source control and testing methods to streamline the deployment process Design T-SQL that can be enhanced or modified with less effort Plan for long-term data management and storage Who This Book Is For Database developers who want to improve the efficiency of their

applications, and developers who want to solve complex query and data problems more easily by writing T-SQL that performs well, brings back correct results, and is easy for other developers to understand and maintain Professional Azure SQL Database Administration Apress With Microsoft SQL Server 2016, a variety of new features and enhancements to the data platform deliver breakthrough

performance, advanced security, and richer, integrated reporting and analytics capabilities. In this ebook, we introduce new security features: Always Encrypted, Row-Level Security, and dynamic data masking; discuss enhancements that enable you to better manage performance and storage: TemDB configuration, query store, and Stretch Database; review several improvements

to Reporting Services; and also describe AlwaysOn Availability Groups, tabular enhancements , and R integration.

**Mastering SQL Server 2017** "O'Reilly Media, Inc." 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,



<p>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</p>	<p>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</p>	<p>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 <i>SQL Server Advanced Troubleshooting and Performance Tuning</i> Apress A guide to SQL covers such topics as retrieving records, metadata queries,</p>
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working with strings, data arithmetic, date manipulation, reporting and warehousing, and hierarchical queries.

T-SQL  
Querying  
Apress

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 tablesReview statistics to understand indexing choices made by the optimizerApply indexing strategies such as covering indexes, included columns, and index intersectionsRecognize and remove unnecessary indexesDesign effective

indexes for full-text, spatial, and XML data typesManage 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

**Pro SQL Server 2022 Wait Statistics**

Packt Publishing Ltd

Troubleshoot query performance issues, identify anti-patterns in code, and write efficient T-SQL queries

Key Features

Discover T-SQL functionalities and services that help you interact with relational databases

Understand the roles, tasks and responsibilities of a T-SQL

developer

Explore solutions for carrying out database querying tasks, database administration, and troubleshooting

Book Description

Transact-SQL (T-SQL) is Microsoft's proprietary extension to the SQL language that is used with Microsoft SQL Server and Azure SQL Database.

This book will be a useful guide to learning the art of writing efficient T-SQL code in

modern SQL Server versions, as well as the Azure SQL Database.

The book will get you started with query processing fundamentals to help you write powerful, performant T-SQL queries.

You will then focus on query execution plans and learn how to leverage them for troubleshooting. In the later chapters, you will learn how to identify various T-SQL patterns and anti-patterns.

This will help

you analyze execution plans to gain insights into current performance, and determine whether or not a query is scalable. You will also learn to build diagnostic queries using dynamic management views (DMVs) and dynamic management functions (DMFs) to address various challenges in T-SQL execution. Next, you will study how to leverage the built-in tools of SQL Server to shorten the

time taken to address query performance and scalability issues. In the concluding chapters, the book will guide you through implementing various features, such as Extended Events, Query Store, and Query Tuning Assistant using hands-on examples. By the end of this book, you will have the skills to determine query performance bottlenecks, avoid pitfalls, and discover the anti-patterns in

use. Foreword by Conor Cunningham, Partner Architect - SQL Server and Azure SQL - Microsoft  
 What you will learn  
 Use Query Store to understand and easily change query performance  
 Recognize and eliminate bottlenecks that lead to slow performance  
 Deploy quick fixes and long-term solutions to improve query performance  
 Implement best practices to minimize performance risk using T-

SQLAchieve optimal performance by ensuring careful query and index designUse the latest performance optimization features in SQL Server 2017 and SQL Server 2019Protect query performance during upgrades to newer versions of SQL ServerWho this book is for This book is for database administrators , database developers, data analysts, data scientists, and

T-SQL practitioners who want to get started with writing T-SQL code and troubleshooting query performance issues, through the help of practical examples. Previous knowledge of T-SQL querying is not required to get started on this book. [Training Kit \(Exam 70-461\): Querying Microsoft SQL Server 2012](#) Microsoft Press T-SQL insiders help you tackle your

toughest queries and query-tuning problems Squeeze maximum performance and efficiency from every T-SQL query you write or tune. Four leading experts take an in-depth look at T-SQL's internal architecture and offer advanced practical techniques for optimizing response time and resource usage. Emphasizing a correct understanding of the language and its foundations,

<p>the authors present unique solutions they have spent years developing and refining. All code and techniques are fully updated to reflect new T-SQL enhancements in Microsoft SQL Server 2014 and SQL Server 2012. Write faster, more efficient T-SQL code: Move from procedural programming to the language of sets and logic Master an efficient top-down tuning methodology</p>	<p>Assess algorithmic complexity to predict performance Compare data aggregation techniques, including new grouping sets Efficiently perform data-analysis calculations Make the most of T-SQL's optimized bulk import tools Avoid date/time pitfalls that lead to buggy, poorly performing code Create optimized BI statistical queries without additional software Use programmable</p>	<p>objects to accelerate queries Unlock major performance improvements with In-Memory OLTP Master useful and elegant approaches to manipulating graphs About This Book For experienced T-SQL practitioners Includes coverage updated from Inside Microsoft SQL Server 2008 T-SQL Querying and Inside Microsoft SQL Server 2008 T-SQL Programming Valuable to developers, DBAs, BI</p>
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professionals, and data scientists  
Covers many MCSE 70-464 and MCSA/MCSE 70-461 exam topics  
*Microsoft Power Bi Cookbook*  
Packt Publishing Ltd  
If you work with SQL Server, dbatools is a lifesaver. This book will show you how to use this free and open source PowerShell module to

automate just about every SQL server task you can imagine—all in just one month!  
Written by a group of expert authors including dbatools creator Chrissy LeMaire, *Learn dbatools in a Month of Lunches* teaches you techniques that will make you more effective—and efficient—than you ever

thought possible. In twenty-eight lunchbreak lessons, you'll learn the most important use cases of dbatools and the favorite functions of its core developers. Stabilize and standardize your SQL server environment, and simplify your tasks by building automation, alerting, and reporting with this powerful tool.