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Learn effective and scalable database design techniques in SQL Server 2019 and other recent SQL Server versions. This book is

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revised to cover additions to SQL Server that include SQL graph enhancements, in-memory online transaction processing, temporal data storage, row-level security, and other design-related features. This book will help you design

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OLTP databases that are high-quality, protect the integrity of your data, and perform fast on-premises, in the cloud, or in hybrid configurations. Designing an effective and scalable database using SQL Server is a task

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requiring skills that have been around for well over 30 years, using technology that is constantly changing. This book covers everything from design logic that business users will understand to the physical implementation of

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design in a SQL Server database. Grounded in best practices and a solid understanding of the underlying theory, author Louis Davidson shows you how to "get it right" in SQL Server database design and lay a solid groundwork

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for the future use of valuable business data. What You Will Learn Develop conceptual models of client data using interviews and client documentation Implement designs that work on premises, in the cloud, or in a hybrid approach

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Recognize and apply common database design patterns Normalize data models to enhance integrity and scalability of your databases for the long-term use of valuable data Translate conceptual models into high-performing SQL Server

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databases Secure and protect data integrity as part of meeting regulatory requirements Create effective indexing to speed query performance Understand the concepts of concurrency Who This Book Is For Programmers and

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database administrators of all types who want to use SQL Server to store transactional data. The book is especially useful to those wanting to learn the latest database design features in SQL Server 2019 (features that include graph

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objects, in-memory OLTP, temporal data support, and more). Chapters on fundamental concepts, the language of database modeling, SQL implementation, and the normalization process lay a solid groundwork for readers who are

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just entering the field of database design. More advanced chapters serve the seasoned veteran by tackling the latest in physical implementation features that SQL Server has to offer. The book has been carefully revised to cover all

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the design-related features that are new in SQL Server 2019.

Understand Microsoft's dramatically updated new release of its premier toolset for business intelligence The first major update to Microsoft's state-of-the-art,

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complex toolset for business intelligence (BI) in years is now available and what better way to master it than with this detailed book from key members of the product's development team? If you're a database or data

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warehouse developer, this is the expert resource you need to build full-scale, multi-dimensional, database applications using Microsoft's new SQL Server 2012 Analysis Services and related tools. Discover how to solve real-world BI

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problems by leveraging a slew of powerful new Analysis Services features and capabilities. These include the new DAX language, which is a more user-friendly version of MDX; PowerPivot, a new tool for performing simplified

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analysis of data; BISM, Microsoft's new Business Intelligence Semantic Model; and much more. Serves as an authoritative guide to Microsoft's new SQL Server 2012 Analysis Services BI product and is written by key members of the

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Microsoft Analysis Services product development team Covers SQL Server 2012 Analysis Services, a major new release with a host of powerful new features and capabilities Topics include using the new DAX language, a

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simplified, more user-friendly version of MDX; PowerPivot, a new tool for performing simplified analysis of data; BISM, Microsoft's new Business Intelligence Semantic Model; and a new, yet-to-be-named BI reporting tool

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Explores real-world scenarios to help developers build comprehensive solutions Get thoroughly up to speed on this powerful new BI toolset with the timely and authoritative Professional Microsoft SQL Server

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2012 Analysis Services with MDX. Once your database system is up and running, you need to keep it functioning smoothly. Designed for the DBA working to maximize the performance of a Sybase server, Sybase ASE 12.5 Performance and

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Tuning provides a guide to this important process. From benchmarking your system and optimizing stored procedures to indexing and using `sp_sysmon` to monitor your system, the authors thoroughly explain how to tune

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your server for maximum performance. Topics include defining performance, understanding the I/O system, using the query optimizer, managing memory, processing queries, application design,

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deadlocks and locking schemes, performance metrics, auditing features, tips for solving problems that can bog down a system. Queries not running fast enough? Tired of the phone calls from frustrated users? Grant Fritchey's

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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

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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

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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

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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

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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

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right level of performance
Proceedings 2004 VLDB
Conference
SQL Server 2012 Query
Performance Tuning
High Performance Architecture
and Grid Computing

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Toward Faster Results and Lower
Maintenance

Professional SQL Server 2005
Administration

SQL Server MVP Deep Dives,
Volume 2

Take a deep dive into

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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

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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

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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

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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

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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.

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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

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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

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

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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

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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

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business

"Robert Pearl, a well-known DBA in the SQL community, explains his holistic vision of a database instance that needs regular check-ups and gives the tools, scripts, and best practices he has

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collected over the years."
Alberto Bolchini, Computing Reviews, May 9, 2016
Healthy SQL is about ensuring the ongoing performance health of a SQL Server database. An unhealthy database is not just an inconvenience; it

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can bring a business to its knees. And if you are the database administrator, the health of your SQL Server implementation can be a direct reflection on you. It's in everyone's best interest to have a healthy

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SQL implementation. Healthy SQL is built around the concept of a medical checkup, giving you the tools you need to assess the current health of your database and take action to improve upon that health and

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maintain good performance to your business. Healthy SQL aids in developing a rigorous routine so that you know how healthy your SQL Server machines are, and how you can keep those same servers healthy and fit for

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duty. The book is filled with practical advice and a time-tested strategy, helping you put together a regimen that will ensure your servers are healthy, your implementation is fully optimized, your services are

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redundant and highly available, and you have a plan for business continuity in the event of a disaster. If your current environment doesn't match up with these criteria, then pick up a copy of Healthy SQL today

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and start your journey on the road to a fit and tight SQL Server deployment. Queries not running fast enough? Wondering about the in-memory database features in 2014? Tired of phone calls from frustrated users?

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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

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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

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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

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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

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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

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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

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that frustrate users

Here is all the practical,
hands-on information you
need to build, manage and
maintain a heterogeneous
computing environment with
hardware, software, and
network equipment from a

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number of different vendors. Packed with real-world case studies and proven techniques for integrating disparate platforms, operating systems and servers, Handbook of Heterogeneous Computing is a

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one-stop, non-nonsense guide
that shows you how to: *

- port and develop
applications in a
heterogeneous environment *
- manage desktops, data
access, communications, and
security in a heterogeneous

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environment * and build distributed heterogeneous systems What is best for your installation? Should you standardize on the Windows environment for both production applications and office applications? Should

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you adopt the Windows NT workstation as a standard desktop and use Windows NT as the network operating system? Handbook of Heterogeneous Computing details the advantages and disadvantages of these and

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other approaches. The book also explains: * the arts of porting and developing applications in a heterogeneous environment using Java, CGI/Perl, and other tools * how to build interfaces with mainframe

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legacy systems * how to use
CORBA to integrate
distributed database systems
while at the same time
managing database gateways
and interoperability * how
to manage interlan
switching, multicast

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networking structures, SNA-LAN integration, and all aspects of enterprise networks * and how to use Kerberos, firewalls, PGP, RSA public keys, and other tools to assure security in heterogeneous environments.

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Heterogeneous computing is here to stay. It is therefore up to corporate end-users to make competing products fit into their environments efficiently, effectively and economically. Handbook of

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Heterogeneous Computing
gives you t
Expert Performance Indexing
in SQL Server
Microsoft SQL Server 2008
Reporting Services Step by
Step
Doing It Right

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Professional SQL Server 2005
Performance Tuning
Handbook of Heterogeneous
Networking
Reliability, scalability,
and security both on
premises and in the cloud

This new edition of the bestselling

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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

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internal storage structures, and controlling SQL Server's new query optimizer.

Offers techniques, tips, and insights into squeezing maximum performance out of a virtualized database.

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Best practices and invaluable advice from world-renowned data warehouse experts In this book, leading data warehouse experts from the Kimball Group share best practices for using the upcoming "Business Intelligence

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release" of SQL Server, referred to as SQL Server 2008 R2. In this new edition, the authors explain how SQL Server 2008 R2 provides a collection of powerful new tools that extend the power of its BI toolset to Excel and SharePoint

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users and they show how to use SQL Server to build a successful data warehouse that supports the business intelligence requirements that are common to most organizations. Covering the complete suite of data

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warehousing and BI tools that are part of SQL Server 2008 R2, as well as Microsoft Office, the authors walk you through a full project lifecycle, including design, development, deployment and maintenance. Features more than

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50 percent new and revised material that covers the rich new feature set of the SQL Server 2008 R2 release, as well as the Office 2010 release. Includes brand new content that focuses on PowerPivot for Excel and

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SharePoint, Master Data Services, and discusses updated capabilities of SQL Server Analysis, Integration, and Reporting Services Shares detailed case examples that clearly illustrate how to best apply the techniques

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described in the book The accompanying Web site contains all code samples as well as the sample database used throughout the case studies The Microsoft Data Warehouse Toolkit, Second Edition provides you with the

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knowledge of how and when to use BI tools such as Analysis Services and Integration Services to accomplish your most essential data warehousing tasks.

The Data Vault was invented by Dan Linstedt at the U.S.

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Department of Defense, and the standard has been successfully applied to data warehousing projects at organizations of different sizes, from small to large-size corporations. Due to its simplified design, which is

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adapted from nature, the Data Vault 2.0 standard helps prevent typical data warehousing failures. "Building a Scalable Data Warehouse" covers everything one needs to know to create a scalable data warehouse end to

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end, including a presentation of the Data Vault modeling technique, which provides the foundations to create a technical data warehouse layer. The book discusses how to build the data warehouse incrementally using

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the agile Data Vault 2.0 methodology. In addition, readers will learn how to create the input layer (the stage layer) and the presentation layer (data mart) of the Data Vault 2.0 architecture including implementation best

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practices. Drawing upon years of practical experience and using numerous examples and an easy to understand framework, Dan Linstedt and Michael Olschimke discuss: How to load each layer using SQL Server Integration

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Services (SSIS), including automation of the Data Vault loading processes. Important data warehouse technologies and practices. Data Quality Services (DQS) and Master Data Services (MDS) in the context of the Data

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Vault architecture. Provides a complete introduction to data warehousing, applications, and the business context so readers can get-up and running fast
Explains theoretical concepts and provides hands-on instruction on

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how to build and implement a data warehouse Demystifies data vault modeling with beginning, intermediate, and advanced techniques Discusses the advantages of the data vault approach over other techniques,

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also including the latest updates to
Data Vault 2.0 and multiple
improvements to Data Vault 1.0

Healthy SQL

Introducing Microsoft SQL

Server 2019

Professional BizTalk Server 2006

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SQL Server Query Tuning and
Optimization

Optimize Microsoft SQL Server
2022 queries and applications
Tuning & Optimization Secrets

*A compendium of best practices and
implementation wisdom, Pro BizTalk*

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2009 is a revision of the highly-successful and best-selling Pro BizTalk 2006. The book has been fully updated to cover developments in BizTalk 2009. You'll find chapters on topics such as developing WCF-compliant adapters using the WCF LOB adapter SDK,

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*connecting BizTalk to IBM mainframe
line-of-business applications and data
using the Host Integration Server
adapter, and riding the Enterprise
Service Bus. All other chapters in the
book have been updated to reflect
developments in BizTalk 2009. Pro*

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BizTalk 2009 is based upon real feedback from BizTalk developers. It is written by recognized experts George Dunphy and Sergei Moukhnitski, backed by a team of top-notch co-authors. The book is a labor of love in which the authors share their

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experiences and expertise to teach you the art of creating a BizTalk solution using the right tools from the BizTalk 2009 toolbox. Fully updated to cover developments in BizTalk 2009 Focuses on the art of creating a BizTalk solution by helping readers choose the

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right tool from the BizTalk toolbox for the task at hand Based upon the real-life experience of authors with many years of practice implementing BizTalk solutions for large enterprises SQL Server 2008 Query Performance Tuning Distilled presents a direct

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trouble-shooting methodology for identifying poorly-performing stored procedures and queries, isolating the causes of that poor performance, and fixing the underlying problems. Each chapter is dedicated to one of the top causes of poorly performing queries

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and shows methods for identifying and dealing with the problems in that chapter's domain. Emphasis is always put upon or placed upon practical methods that you can put to immediate use in your day-to-day work. SQL Server 2008 functionality, tips, and

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tricks are emphasized in each subject area. Emphasizes the practical. Does not bury readers in theory. Gives readers practical techniques to immediately apply in their daily work. Dedicates a chapter to each of the most common, performance-related problem

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areas.

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

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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

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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

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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 Proceedings of the 30th Annual

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International Conference on Very Large Data Bases held in Toronto, Canada on August 31 - September 3 2004. Organized by the VLDB Endowment, VLDB is the premier international conference on database technology.

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*Best Practices for Scalability and
Performance*

Microsoft SQL Server 2012 Internals

Professional SQL Server 2012

Internals and Troubleshooting

*Code Centric: T-SQL Programming
with Stored Procedures and Triggers*

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*With SQL Server 2008 R2 and the
Microsoft Business Intelligence Toolset
Professional Microsoft SQL Server
2012 Administration
Hands-on troubleshooting methods on
the most recent release of SQL Server
The 2012 release of SQL Server is the*

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most significant one since 2005 and introduces an abundance of new features. This critical book provides in-depth coverage of best practices for troubleshooting performance problems based on a solid understanding of both SQL Server and Windows internals and shows experienced DBAs how to

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ensure reliable performance. The team of authors shows you how to master the use of specific troubleshooting tools and how to interpret their output so you can quickly identify and resolve any performance issue on any server running SQL Server. Covers the core technical topics required to understand

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how SQL Server and Windows should be working Shares best practices so that you know how to proactively monitor and avoid problems Shows how to use tools to quickly gather, analyze, and effectively respond to the source of a system-wide performance issue Professional SQL Server 2012

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Internals and Troubleshooting helps you to quickly become familiar with the changes of this new release so that you can best handle database performance and troubleshooting. As your essential guide to Microsoft's new SQL Server 2005 certification (exam 70-442), this book offers you

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practical and in-depth coverage. Full coverage of all exam objectives is presented in a systematic approach so you can be confident you're getting the instruction you need for the exam. Plus, practical hands-on exercises reinforce critical skills and real-world scenarios put what you've learned in

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the context of actual job roles. Finally, challenging review questions in each chapter prepare you for exam day. This manual fulfills the need for a thorough reference showing the strengths of different products and how to maximize these strengths. The work provides critical insight and

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understanding for:

Summary SQL Server MVP Deep Dives, Volume 2 is a unique book that lets you learn from the best in the business - 64 SQL Server MVPs offer completely new content in this second volume on topics ranging from testing and policy management to integration

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services, reporting, and performance optimization techniques...and more.

About this Book To become an MVP requires deep knowledge and impressive skill. Together, the 64 MVPs who wrote this book bring about 1,000 years of experience in SQL Server administration, development,

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training, and design. This incredible book captures their expertise and passion in 60 concise, hand-picked chapters and offers valuable insights for readers of all levels. SQL Server MVP Deep Dives, Volume 2 picks up where the first volume leaves off, with completely new content on topics

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ranging from testing and policy management to integration services, reporting, and performance optimization. The chapters fall into five parts: Architecture and Design, Database Administration, Database Development, Performance Tuning and Optimization, and Business

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Intelligence. 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. What's Inside

- Discovering servers with PowerShell*
- Using regular expressions in SSMS*
- Tuning the Transaction Log for OLTP*

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*Optimizing SSIS for dimensional data
Real-time BI and much more Manning
Publications and the authors of this
book support the children of Operation
Smile, an international children's
medical charity that performs free
reconstructive surgery for children
suffering from facial deformities such*

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as cleft lips and cleft palates by mobilizing medical volunteers who provide education and training programs to local doctors on the latest surgical techniques. =====

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*===== Table of Contents PART 1
ARCHITECTURE Edited by Louis*

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*Davidson PART 2 DATABASE
ADMINISTRATION Edited by Paul
Randal and Kimberly Tripp PART 3
DATABASE DEVELOPMENT Edited
by Paul Nielsen PART 4
PERFORMANCE TUNING AND
OPTIMIZATION Edited by Brad M.
McGehee PART 5 BUSINESS*

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INTELLIGENCE Edited by Greg Low
*SQL Server Query Performance
Tuning*
Pro SQL Server Internals
*A Comprehensive Guide to Healthy
SQL Server Performance*
*Best Practices for Designing High
Volume Websites*

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A Professional's Guide

Virtualizing SQL Server with VMware

This book constitutes the refereeds proceedings of the International Conference on High Performance Architecture and Grid Computing, HPAGC 2011, held in Chandigarh, India, in July

Page 116/210

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2011. The 87 revised full papers presented were carefully reviewed and selected from 240 submissions. The papers are organized in topical sections on grid and cloud computing; high performance architecture; information management and

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network security.

Dive deep inside the architecture of SQL Server 2012 Explore the core engine of Microsoft SQL Server 2012—and put that practical knowledge to work. Led by a team of SQL Server experts, you'll learn the skills you need to

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exploit key architectural features. Go behind the scenes to understand internal operations for creating, expanding, shrinking, and moving databases—whether you're a database developer, architect, or administrator. Discover how to:

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**Dig into SQL Server 2012
architecture and configuration
Use the right recovery model and
control transaction logging
Reduce query execution time
through proper index design
Track events, from triggers to the
Extended Event Engine Examine**

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**internal structures with database
console commands Transcend
row-size limitations with special
storage capabilities Choose the
right transaction isolation level
and concurrency model Take
control over query plan caching
and reuse**

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An essential how-to guide for experienced DBAs on the most significant product release since 2005! Microsoft SQL Server 2012 will have major changes throughout the SQL Server and will impact how DBAs administer the database. With this book, a

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team of well-known SQL Server experts introduces the many new features of the most recent version of SQL Server and deciphers how these changes will affect the methods that administrators have been using for years. Loaded with unique

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tips, tricks, and workarounds for handling the most difficult SQL Server admin issues, this how-to guide deciphers topics such as performance tuning, backup and recovery, scaling and replication, clustering, and security. Serves as a must-have how-to guide on

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**the new features of the 2012
release of Microsoft SQL Server
Walks you through ways to
manage and monitor SQL Server
and automate administration
Guides you through SQL Azure
for cloud computing, data
replication, and data warehouse**

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**performance improvements
Addresses client-connectivity
enhancements, new features that
ensure high availability of
mission-critical applications, and
tighter integration with Excel and
SharePoint for data analysis and
reporting Highlights major**

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**changes to the suite of SQL
Server BI tools, including
integration, reporting, and
analysis services Includes real-
world case examples and best
practices from Microsoft insiders
If you're a database administrator
eager to get started with the**

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**newest version of SQL Server,
then this book is essential
reading.**

**Get well-versed with ready-to-use
techniques for creating high-
performance queries and
applications Key Features Speed
up queries and dramatically**

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**improve application performance
by both understanding query
engine internals and practical
query optimization Understand
how the query optimizer works
Learn about intelligent query
processing and what is new in
SQL Server 2022 Book**

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Description SQL Server is a relational database management system developed by Microsoft. As a database server, it is a software product with the primary function of storing and retrieving data as requested by other software applications. This

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book starts by describing the inner workings of the query optimizer, and will enable you to use this knowledge to write better queries and provide the query engine with all the information it needs to produce efficient execution plans. As you

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progress, you'll get practical query optimization tips for troubleshooting underperforming queries. The book will also guide you through intelligent query processing and what is new in SQL Server 2022. Query performance topics such as the

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Query Store, In-Memory OLTP and columnstore indexes are covered as well. By the end of this book, you'll be able to get the best possible performance for your queries and applications. What you will learn Troubleshoot queries using methods including

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**extended events, SQL Trace, and
dynamic management views
Understand how the execution
engine and query operators work
Speed up queries and improve
app performance by creating the
right indexes Detect and fix
cardinality estimation errors by**

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**examining query optimizer
statistics Monitor and promote
both plan caching and plan reuse
to improve app performance
Troubleshoot and improve query
performance by using the Query
Store Improve the performance of
data warehouse queries by using**

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**columnstore indexes Handle
query processor limitations with
hints and other methods Who this
book is for This book is for SQL
Server developers who are
struggling with slow query
execution, database
administrators who are tasked**

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with troubleshooting slow application performance, and database architects who design SQL Server databases in support of line-of-business and data warehousing applications.

The Microsoft SQL Server 2000 Performance Optimization and

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**Tuning Handbook
SQL Server 2008 for Database
Administrators
Sybase ASE 12.5 Performance
and Tuning
The Go Faster Book
Windows NT, UNIX, NetWare
Migration/Coexistence**

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The Microsoft Data Warehouse Toolkit

Teach yourself how to
build, manage, and access
SQL Server 2008
reports—one step at a
time. Whether you're a

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report developer, IT administrator, or business user, this sequential, learn-by-doing tutorial shows you how to deliver the business intelligence information your

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Discover how to: Install
and configure Reporting
Services Put Report
Builder and Report
Designer tools to work
Create interactive, online

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reports that enable users
to sort and filter data
Add charts and gauges to
present data visually
Deploy reports to
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Design and configure SQL
Server instances and
databases in support of
high-throughput
applications that are
mission-critical and

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provide consistent
response times in the face
of variations in user
numbers and query volumes.
Learn to configure SQL
Server and design your
databases to support a

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given instance and workload. You'll learn advanced configuration options, in-memory technologies, storage and disk configuration, and more, all toward enabling

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your desired application performance and throughput. Configuration doesn't stop with implementation. Workloads change over time, and other impediments can

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arise to thwart desired performance. High Performance SQL Server covers monitoring and troubleshooting to aid in detecting and fixing production performance

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problems and minimizing application outages. You'll learn a variety of tools, ranging from the traditional wait analysis methodology to the new query store, and you'll

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learn how improving performance is really an iterative process. High Performance SQL Server is based on SQL Server 2016, although most of its content can be applied to

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prior versions of the product. This book is an excellent complement to performance tuning books focusing on SQL queries, and provides the other half of what you need to

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know by focusing on
configuring the instances
on which mission-critical
queries are executed.
Covers SQL Server instance-
configuration for optimal
performance Helps in

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implementing SQL Server in-
memory technologies

Provides guidance toward
monitoring and ongoing
diagnostics What You Will
Learn Understand SQL
Server's database engine

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and how it processes
queries Configure
instances in support of
high-throughput
applications Provide
consistent response times
to varying user numbers

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and query volumes Design
databases for high-
throughput applications
with focus on performance
Record performance
baselines and monitor SQL
Server instances against

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them Troubleshoot and fix
performance problems Who
This Book Is For SQL
Server database
administrators,
developers, and data
architects. The book is

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

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If you want to learn how to write stored procedures and triggers for Microsoft SQL Server, Code Centric: T-SQL Programming with Stored Procedures and Triggers is the book for

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you. You'll learn real-world coding and how to build non-trivial applications. All of the examples covered in the book are available for download, making it easier

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to work through over 5,000
lines of sample code.

While there is extensive
coverage of the new
functionality in SQL
Server 2000—such as UDF's
(user-defined

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functions)–you can use this book effectively for virtually any version of SQL Server 6.x, 7.0, or 2000.

A guide to troubleshooting and correcting SQL Server

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performance problems, this book provides a methodology for use in analyzing any SQL Server database. The most recent advances in SQL Server8i and 9i are covered to make

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a SQL Server database run
as fast as possible.
Properly using ratio-based
and bottleneck analysis,
designing a fast-running
database from the ground
up, and establishing

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methods for making storage and reorganization problems a thing of the past are demonstrated. Also presented are new techniques for monitoring and optimizing memory

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usage and improved methods
for uncovering session-
related bottlenecks.

Building a Scalable Data
Warehouse with Data Vault
2.0

MCITP Developer: Microsoft

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SQL Server 2005 Data
Access Design and
Optimization Study Guide
Pro BizTalk 2009
The 30th International
Conference on Very Large
Databases (VLDB)

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**Microsoft SQL Server 2008
Internals**

**Pro SQL Server Relational
Database Design and
Implementation**

**A guide to performance tuning with
SQL Server 2005 describes how to**

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discover bottlenecks, identify and remove problems that are causing poor performance, avoid performance problems through preventative measures, and ways to achieve better performance. Improve your ability to develop, manage, and troubleshoot SQL

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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 high-throughput databases critical to your business and its customers.

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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

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OLTP, columnstore enhancements, Operational 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

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that share the same code with SQL Server 2016. Pro SQL Server Internals is a book for developers and database administrators, and it covers multiple SQL Server versions starting with SQL Server 2005 and going all the way up to the recently released SQL Server 2016.

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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: • Provides

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detailed knowledge of new SQL Server 2016 features and enhancements • Includes revamped coverage of columnstore indexes and In-Memory OLTP • Covers indexing and transaction strategies • Shows how various database objects and technologies

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are implemented internally, and when they should or should not be used • Demonstrates how SQL Server executes queries and works with data and transaction log What You Will Learn Design and develop database solutions with SQL Server. Troubleshoot design,

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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

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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

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choice for people who prefer to understand and fix the root cause of a problem rather than applying a 'band aid' to it.

Identify and fix causes of poor performance. You will learn Query Store, adaptive execution plans, and automated tuning on the

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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

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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

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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

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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

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**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**

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**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**

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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.

Explore the impressive storage and analytic tools available with the in-

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cloud and on-premises versions of Microsoft SQL Server 2019. Key Features
Gain insights into what's new in SQL Server 2019
Understand use cases and customer scenarios that can be implemented with SQL Server 2019
Discover new cross-platform tools that simplify

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**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**

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with Microsoft Server 2019 is key. Introducing SQL Server 2019 takes you through the latest features in SQL Server 2019 and their importance. You will learn to unlock faster querying speeds and understand how to leverage the new and improved security

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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

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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

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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

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**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 File System
(HDFS) data using Azure Data
Studio Understand the benefits of In-**

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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

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Server and relational database management system (RDBMS) is required.

**SQL Server 2008 Query
Performance Tuning Distilled
International Conference, HPAGC
2011, Chandigarh, India, July 19-20,
2011. Proceedings**

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**High Performance SQL Server DBA
Professional Microsoft SQL Server
2012 Analysis Services with MDX
and DAX
Expert SQL Server 2005 Integration
Services
Expert Performance Indexing in
SQL Server 2019**

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In this book, the CEO of Cazton, Inc. and internationally-acclaimed speaker, Chander Dhall, demonstrates current website design scalability patterns and takes a pragmatic approach to explaining their pros and cons to

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show you how to select the appropriate pattern for your site. He then tests the patterns by deliberately forcing them to fail and exposing potential flaws before discussing how to design the optimal pattern to match your scale

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requirements. The author explains the use of polyglot programming and how to match the right patterns to your business needs. He also details several No-SQL patterns and explains the fundamentals of different paradigms of No-SQL by

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showing complementary strategies of using them along with relational databases to achieve the best results. He also teaches how to make the scalability pattern work with a real-world microservices pattern. With the proliferation of

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countless electronic devices and the ever growing number of Internet users, the scalability of websites has become an increasingly important challenge. Scalability, even though highly coveted, may not be so easy to achieve. Think

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that you can't attain responsiveness along with scalability? Chander Dhall will demonstrate that, in fact, they go hand in hand. What You'll Learn Architect and develop applications so that they are easy to scale. Learn different scaling and

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partitioning options and the combinations. Learn techniques to speed up responsiveness. Deep dive into caching, column-family databases, document databases, search engines and RDBMS. Learn scalability and responsiveness

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concepts that are usually ignored. Effectively balance scalability, performance, responsiveness, and availability while minimizing downtime. Who This Book Is For Executives (CXOs), software architects , developers, and IT Pros

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Delve inside the core SQL Server engine—and put that knowledge to work—with guidance from a team of well-known internals experts. Whether database developer, architect, or administrator, you'll gain the deep knowledge you need

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to exploit key architectural changes—and capture the product's full potential. Discover how SQL Server works behind the scenes, including: What happens internally when SQL Server builds, expands, shrinks, and moves

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databases How to use event tracking—from triggers to the Extended Events Engine Why the right indexes can drastically reduce your query execution time How to transcend normal row-size limits with new storage capabilities How

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the Query Optimizer operates
Multiple techniques for
troubleshooting problematic query
plans When to force SQL Server to
reuse a cached query plan—or
create a new one What SQL Server
checks internally when running

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DBCC How to choose among five isolation levels and two concurrency models when working with multiple concurrent users

Scalability Patterns

Exam 70-442

Troubleshoot and Optimize Query

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Performance

High Performance SQL Server

SQL Server 2017 Query

Performance Tuning

Professional Microsoft SharePoint

2007 Reporting with SQL Server

2008 Reporting Services