

Pro Sql Server On Microsoft Azure

Learn effective and scalable database design techniques in a SQL Server environment. Pro SQL Server 2008 Relational Database Design and Implementation covers everything from design logic that business users will understand, all the way to the physical implementation of the design in a SQL Server database. Grounded in best practices and a solid understanding of the underlying theory, authors Louis Davidson, Kevin Kline, Scott Klein, and Kurt Windisch show how to 'get it right' in SQL Server database design and lay a solid groundwork for the future use of valuable business data. Solid foundation in best practices and relational theory Maximize SQL Server features to enhance security, performance, scalability Thorough treatment from conceptual design to an effective, physical implementation

Learn the basics of Microsoft Azure and see how SQL Server on Azure VMs (Infrastructure-as-a-Service) and Azure SQL Databases (Platform-as-a-Service) work. This concise book shows you how to deploy, operate, and maintain your data using any one or a combination of these offerings along with your on-premise environment. Pro SQL Server on Microsoft Azure is a quintessential book for any IT professional who is planning to host their data on Microsoft

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Azure. This book will not only equip you with the tips, tricks, and tools to manage SQL Server offerings on Azure, but will also help you in deciding between PaaS, IaaS, or hybrid. In the ever-changing world of operations, IT administrators and SQL Server DBAs often find that the biggest challenges occur once they've deployed to the cloud. This is precisely why Pro SQL Server on Microsoft Azure was written; it will help you master today's cloud world. What You'll Learn

- Understand the Microsoft Azure IaaS architecture
- Work with Azure Storage and Networking
- Deploy SQL Server on Azure VMs using best practices
- Apply effective security principles to SQL Azure Databases
- Measure and optimize the performance of SQL Server offerings on Azure
- Implement Business continuity and disaster recovery options with Azure SQL Databases

Who This Book Is For
This book is for IT admins and SQL Server DBAs who are managing or would be managing SQL Server deployments on Microsoft Azure. v>

Get SQL Server up and running on the Linux operating system and containers. No database professional managing or developing SQL Server on Linux will want to be without this deep and authoritative guide by one of the most respected experts on SQL Server in the industry. Get an inside look at how SQL Server for Linux works through the eyes of an engineer on the team that made it possible. Microsoft SQL Server is one of the leading database platforms in the industry,

and SQL Server 2017 offers developers and administrators the ability to run a database management system on Linux, offering proven support for enterprise-level features and without onerous licensing terms. Organizations invested in Microsoft and open source technologies are now able to run a unified database platform across all their operating system investments. Organizations are further able to take full advantage of containerization through popular platforms such as Docker and Kubernetes. Pro SQL Server on Linux walks you through installing and configuring SQL Server on the Linux platform. The author is one of the principal architects of SQL Server for Linux, and brings a corresponding depth of knowledge that no database professional or developer on Linux will want to be without. Throughout this book are internals of how SQL Server on Linux works including an in depth look at the innovative architecture. The book covers day-to-day management and troubleshooting, including diagnostics and monitoring, the use of containers to manage deployments, and the use of self-tuning and the in-memory capabilities. Also covered are performance capabilities, high availability, and disaster recovery along with security and encryption. The book covers the product-specific knowledge to bring SQL Server and its powerful features to life on the Linux platform, including coverage of containerization through Docker and Kubernetes. What You'll Learn Learn about the history and internal of the unique

SQL Server on Linux architecture. Install and configure Microsoft's flagship database product on the Linux platform Manage your deployments using container technology through Docker and Kubernetes Know the basics of building databases, the T-SQL language, and developing applications against SQL Server on Linux Use tools and features to diagnose, manage, and monitor SQL Server on Linux Scale your application by learning the performance capabilities of SQL Server Deliver high availability and disaster recovery to ensure business continuity Secure your database from attack, and protect sensitive data through encryption Take advantage of powerful features such as Failover Clusters, Availability Groups, In-Memory Support, and SQL Server's Self-Tuning Engine Learn how to migrate your database from older releases of SQL Server and other database platforms such as Oracle and PostgreSQL Build and maintain schemas, and perform management tasks from both GUI and command line Who This Book Is For Developers and IT professionals who are new to SQL Server and wish to configure it on the Linux operating system. This book is also useful to those familiar with SQL Server on Windows who want to learn the unique aspects of managing SQL Server on the Linux platform and Docker containers. Readers should have a grasp of relational database concepts and be comfortable with the SQL language.

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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 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: 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 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

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

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usually gained only by hard experience Focuses upon performance, scalability, reliability Helps achieve the predictability needed to be in control at all times When used with the MDX query language, SQL Server Analysis Services allows developers to build full-scale database applications to support such business functions as budgeting, forecasting, and market analysis. Shows readers how to build data warehouses and multi-dimensional databases, query databases, and use Analysis Services and other components of SQL Server to provide end-to-end solutions Revised, updated, and enhanced, the book discusses new features such as improved integration with Office and Excel 2007; query performance enhancements; improvements to aggregation designer, dimension designer, cube and dimension wizards, and cell writeback; extensibility and personalization; data mining; and more

Every business has reams of business data locked away in databases, business systems, and spreadsheets. While you may be able to build some reports by pulling a few of these repositories together, actually performing any kind of analysis on the data that runs your business can range from problematic to impossible. Pro SQL Server 2008 Analysis Services will show you how to pull that data together and present it for reporting and analysis in a way that makes the data accessible to business users, instead of needing to rely on the IT

department every time someone needs a different report. Accessible—With a single author's voice, this book conducts a guided tour through the technology that makes it easy to dive into. Solution-oriented—While technically deep, the goal is to focus on practical application of the technologies instead of acting as a technical manual. Comprehensive—This book covers every aspect of analysis services and ancillary technologies to enable you to make the most of SQL Server.

SQL Server 2008 is how-to guide for experienced DBAs. Tutorial-based, this book will get you over the learning curve of how to configure and administer SQL Server 2008. Whether you're an administrator or developer using SQL Server, you can't avoid wearing a DBA hat at some point. The book is loaded with unique tips and workarounds for the most difficult SQL Server admin issues, including managing and monitoring SQL Server, automating administration, security, performance tuning, scaling and replications, clustering, and backup and recovery. A companion website is also available.

Pro SQL Server 2012 Integration Services teaches how to take advantage of the powerful extract, transform, and load (ETL) platform included with Microsoft SQL Server 2012. You'll learn to build scalable, robust, performance-driven enterprise ETL solutions that save time and make money for your company. You'll learn to avoid common ETL development pitfalls and how to extend the power of your ETL solutions

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to include virtually any possible transformation on data from any conceivable source. SQL Server Integration Services (SSIS) facilitates an unprecedented ability to load data from anywhere, perform any type of manipulation on it, and store it to any source. Whether you are populating databases, retrieving data from the Web, or performing complex calculations on large data sets, SSIS gives you the tools to get the job done. And this book gives you the knowledge to take advantage of everything SSIS offers. Helps you design and develop robust, efficient, scalable ETL solutions Walks you through using the built-in, stock components Shows how to programmatically extend the power of SSIS to cover any possible scenario

* First book to provide comprehensive, deeply practical coverage on all major new SS2005 features. • Lead author (Tom Rizzo) is a key member of the SQL Server team at Microsoft and a respected author and blogger. • Gets the DBA and developer up and running with SS2005 in the fastest possible time. • The facts, not the evangelism. Pro SQL Server 2008 Failover Clustering is dedicated to the planning, implementation, and administration of clustered SQL Server 2008 implementations. Whether deploying a single–instance, two–node cluster or a multiple–node, many–instance cluster for consolidation, this book will detail all of the considerations and pitfalls that may be encountered along the way. Clustering and high–availability expert Allan Hirt shares his many years of wisdom and experience, showing how to put together the right combination of people, processes, technology, and best practices to create and

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manage world-class, highly available SQL Server 2008 failover clusters. Provides a comprehensive look at SQL Server 2008 failover clustering from the first steps of planning to daily administration Goes beyond just SQL Server 2008 and also covers Windows Server 2008 clustering in depth with a SQL Server focus Covers how and where virtualization can be used with failover clusters Addresses the needs of enterprise-class, 24/7 SQL Server 2008 implementations Written by the leading expert on SQL Server failover clustering

Learn to take advantage of the opportunities offered by SQL Server 2014 Microsoft's SQL Server 2014 update means big changes for database administrators, and you need to get up to speed quickly because your methods, workflow, and favorite techniques will be different from here on out. The update's enhanced support of large-scale enterprise databases and significant price advantage mean that SQL Server 2014 will become even more widely adopted across the industry. The update includes new backup and recovery tools, new AlwaysOn features, and enhanced cloud capabilities. In-memory OLTP, Buffer Pool Extensions for SSDs, and a new Cardinality Estimator can improve functionality and smooth out the workflow, but only if you understand their full capabilities. Professional Microsoft SQL Server 2014 is your comprehensive guide to working with the new environment. Authors Adam Jorgensen, Bradley Ball, Ross LoForte, Steven Wort, and Brian Knight are the dream team of the SQL Server community, and they put their expertise to work guiding you through the changes.

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Improve oversight with better management and monitoring Protect your work with enhanced security features Upgrade performance tuning, scaling, replication, and clustering Learn new options for backup and recovery Professional Microsoft SQL Server 2014 includes a companion website with sample code and efficient automation utilities, plus a host of tips, tricks, and workarounds that will make your job as a DBA or database architect much easier. Stop getting frustrated with administrative issues and start taking control. Professional Microsoft SQL Server 2014 is your roadmap to mastering the update and creating solutions that work.

Use this comprehensive guide for the SQL Server DBA, covering the gamut of what any practicing database administrator needs to know to get their daily work done. Updated for SQL Server 2019, this edition includes coverage of new features such as Static Data Masking, and the Hybrid Buffer Pool. Other new content includes coverage of Query Store, installation on Linux, and resumable DDL operations. Pro SQL Server 2019 Administration takes DBAs on a journey that begins with planning their SQL Server deployment and runs through installing and configuring the instance, administering and optimizing database objects, and ensuring that data is secure and highly available. Finally, readers will learn how to perform advanced maintenance and tuning techniques. This book teaches you to make the most of new SQL Server 2019 functionality, including resumable online index creation and the Always Encrypted feature with secure enclaves. The book promotes best-practice installation, shows how

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to configure for scalability and high workloads, and demonstrates the gamut of database-level maintenance tasks such as index maintenance, database consistency checks, and table optimizations. What You'll Learn Install SQL Server on Windows and Linux through the GUI and with PowerShell Optimize tables through in-memory OLTP, table partitioning, and the creation of indexes Improve performance through advanced features such as specialized indexes Secure and encrypt data to protect against embarrassing data breaches Ensure 24x7x365 access through high-availability and disaster recovery features Back up your data to ensure against loss, and recover data when needed Perform routine maintenance tasks such as database consistency checks Troubleshoot and solve performance problems in SQL queries and in the database engine Who This Book Is For SQL Server DBAs who manage on-premise installations of SQL Server. This book is also useful for DBAs who wish to learn advanced features such as Query Store, Extended Events, Distributed Replay, and Policy-Based Management, or those who need to install SQL Server in a variety of environments. HOW TO LEARN MICROSOFT SQL SERVER QUICKLY! Whether you are an IT developer or Pro, SQL server is one of the programs you need to learn if you want to implement and manage database solutions, work with powerful reporting features and much more. The primary function of the SQL server is to store retrieving data as required by other applications. When you learn the program, you will be able to retrieve a large number of records from a database efficiently and quickly; you will be able to

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view data without storing it into an object and many other functions. To help you learn the fundamentals of SQL Server and effectively put it into practice, we have prepared a great book titled “How to Learn Microsoft SQL Server Quickly.” There is more to this powerful book than you think. Lots of benefits await you. Let’s take a look at some of them.

- You will learn what SQL Server is and how you can use it to manipulate data into the database
- You will learn how to create login and backups, create and restore data, assign permissions and much more
- The book provides a step-by-step progression on how to use SQL server
- The navigation index is perfect ensuring a great reference guide
- It offers short and precise sentences that ensure you understand every bit of information from the book

You don’t need to spend all the money on you before getting this book. In fact, you can save up to \$1000 buying this book. It is affordable so it is suitable for all budgets. No doubt, this book is going to offer you more value than your money. We accept the fact that this powerful and incredible book might not contain all extensive information on Microsoft SQL Server. Also, we confess that our weakness is editing. We are not native speakers. But our focus is to offer you high-quality contents, and our aim is to ensure you Learn Microsoft SQL Server Quickly so you can easily retrieve large amounts of record from a database efficiently and quickly. The more you waste time purchasing and making use of the information this topnotch book offers the more you find it hard to retrieve large amounts of record from a database, and the more you waste your time. It is better to be on the

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winning side now than never. This product is 100% risk-free so you can try it out for 7 full days! Don't doubt it; if you are not satisfied, you can ask for a complete refund within 7 days by visiting "Manage your Kindle" page. To start learning Microsoft SQL Server today and quickly, click the buy button on the upper right side of the page and obtain your copy of the book in just a single click! Remember, SQL Server is crucial to the success as an IT developer or pro. Purchase this product now!

Pro SQL Server 2008 Replication is for Microsoft database developers and administrators who want to learn about the different types of replication and those best suited to SQL Server 2008. This book will also cover advanced topics like replication with heterogeneous databases, backup and recovery of replicated databases, database mirroring with replication, log shipping with replication, troubleshooting, plus optimization and tuning. Tools like tablediff, SQLCMD, DTA, SQL Profiler, and Replication Monitor will be discussed to demonstrate the different techniques used in monitoring, administering, and troubleshooting replication. Examines the detailed configuration and the internal workings of the different replication types using real-life scenarios Covers replication with database mirroring and troubleshooting Discusses replication administration using different tools

Optimize reporting and BI with Microsoft SQL Server 2016 Professional Microsoft SQL Server 2016 Reporting Services and Mobile Reports provides a comprehensive lesson in business intelligence (BI), operational reporting and Reporting Services architecture

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using a clear, concise tutorial approach. You'll learn effective report solution design based upon many years of experience with successful report solutions. Improve your own reports with advanced, best-practice design, usability, query design, and filtering techniques. Expert guidance provides insight into common report types and explains where each could be made more efficient, while providing step-by-step instruction on Microsoft SQL Server 2016. All changes to the 2016 release are covered in detail, including improvements to the Visual Studio Report Designer (SQL Server Data Tools) and Report Builder, Mobile Dashboard Designer, the new Report Portal Interface, HTML-5 Rendering, Power BI integration, Custom Parameters Pane, and more. The Microsoft SQL Server 2016 release will include significant changes. New functionality, new capabilities, re-tooled processes, and changing support require a considerable update to existing knowledge. Whether you're starting from scratch or simply upgrading, this book is an essential guide to report design and business intelligence solutions. Understand BI fundamentals and Reporting Services architecture Learn the ingredients to a successful report design Get up to speed on Microsoft SQL Server 2016 Grasp the purpose behind common designs to optimize your reporting Microsoft SQL Server Reporting Services makes reporting faster, easier, and more powerful than ever in web, desktop and portal solutions. Compatibility with an extensive variety of data sources makes it a go-to solution for organizations across the globe. The 2016 release brings some of the biggest changes in years, and the full depth and breadth of

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these changes can create a serious snag in your workflow. For a clear tutorial geared toward the working professional, *Professional Microsoft SQL Server 2016 Reporting Services and Mobile Reports* is the ideal guide for getting up to speed and producing successful reports.

Use this comprehensive guide for the SQL Server DBA, covering all that practicing database administrators need to know to get their daily work done. Updated for SQL Server 2019, this edition includes coverage of new features such as Memory-optimized TempDB Metadata, and Always Encrypted with Secure Enclaves. Other new content includes coverage of Query Store, resumable index operations, installation on Linux, and containerized SQL. *Pro SQL Server 2019 Administration* takes DBAs on a journey that begins with planning their SQL Server deployment and runs through installing and configuring the instance, administering and optimizing database objects, and ensuring that data is secure and highly available. Finally, readers will learn how to perform advanced maintenance and tuning techniques. This book teaches you to make the most of new SQL Server 2019 functionality, including Data Discovery and Classification. The book promotes best-practice installation, shows how to configure for scalability and high workloads, and demonstrates the gamut of database-level maintenance tasks such as index maintenance, database consistency checks, and table optimizations. What You Will Learn Install and configure SQL Server on Windows through the GUI and with PowerShell Install and configure SQL Server on Linux and in

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Containers Optimize tables through in-memory OLTP, table partitioning, and the creation of indexes Secure and encrypt data to protect against embarrassing data breaches Ensure 24x7x365 access through high-availability and disaster recovery features Back up your data to ensure against loss, and recover data when needed Perform routine maintenance tasks such as database consistency checks Troubleshoot and solve performance problems in SQL queries and in the database engine Who This Book Is For SQL Server DBAs who manage on-premise installations of SQL Server. This book is also useful for DBAs who wish to learn advanced features such as Query Store, Extended Events, Distributed Replay, and Policy-Based Management, or those who need to install SQL Server in a variety of environments.

A hands-on resource for SQL Server 2008 troubleshooting methods and tools SQL Server administrators need to ensure that SQL Server remains running 24/7. Authored by leading SQL Server experts and MVPs, this book provides in-depth coverage of best practices based on a deep understanding of the internals of both SQL Server and the Windows operating system. You'll get a thorough look at the SQL Server database architecture and internals as well as Windows OS internals so that you can approach troubleshooting with a solid grasp of the total processing environment. Armed with this comprehensive understanding, readers will then learn how to use a suite of tools for troubleshooting performance problems whether they originate on the database server or operating system side. Topics Covered: SQL Server Architecture Understanding

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Memory SQL Server Waits and Extended Events Working with Storage CPU and Query Processing Locking and Latches Knowing Tempdb Defining Your Approach To Troubleshooting Viewing Server Performance with PerfMon and the PAL Tool Tracing SQL Server with SQL Trace and Profiler Consolidating Data Collection with SQLDiag and the PerfStats Script Introducing RML Utilities for Stress Testing and Trace File Analysis Bringing It All Together with SQL Nexus Using Management Studio Reports and the Performance Dashboard Using SQL Server Management Data Warehouse Shortcuts to Efficient Data Collection and Quick Analysis Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Pro SQL Server 2008 Analytics provides everything you need to know to develop sophisticated and visually appealing sales and marketing dashboards using SQL Server 2008 and to integrate those dashboards with SharePoint, PerformancePoint, and other key Microsoft technologies. The book begins by addressing the many misconceptions that surround the use of key performance indicators (KPIs) and giving a brief overview of the business intelligence (BI) and reporting tools that can be combined on the Microsoft platform to help you generate the results that you need. The focus of the book is to help you implement a successful business intelligence project of your own. The text discusses many of the required project planning components, provides overviews and examples associated with Microsoft's BI tools, and gives detailed examples of successful dashboard implementations.

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Pro SQL Server Administration brings SQL Server administration into the modern era with strong coverage of hybrid cloud environments, In-Memory OLTP, and installation on Server Core. This comprehensive guide to SQL Server Administration for today's DBA helps you to administer the new and key areas of SQL Server, including Columnstore indexes and the In-Memory OLTP feature set introduced in 2014. You will also be guided through the administration of traditional areas of SQL Server, including how to secure your instance, monitor and maintain your instance, and to use features such as AlwaysOn to make your instance highly available. Also covered is the use of SQL Server features to scale out read-only workloads. Pro SQL Server Administration is an all-new book taking up-to-date and modern approach that you'll want and need to further your career as a SQL Server database administrator. Extensive coverage of hybrid cloud environments involving Azure SQL Database Detailed discussions on all new, key features, including AlwaysOn and in-memory support Comprehensive coverage of key skills, such as monitoring, maintenance and indexing

If you need to deploy, manage, or secure Microsoft SQL Server 2008, this is the complete, fast-paced, task-based reference you've been searching for. Authored by a world-class expert on SQL Server in the enterprise, this book goes far beyond the basics, taking on the complex tasks that DBAs need to make the most of Microsoft's flagship database platform. SQL Server MVP, Ross Mistry presents proven techniques for SQL Server 2008 installation, upgrades, backup/restore, data transfer, indexing,

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high availability, security, and much more. He draws on extensive testing in high-profile production environments to offer step-by-step solutions and powerful tips you won't find anywhere else. Every chapter begins with a section identifying SQL Server 2008's most significant new improvements, and concludes with a convenient summary of best practices. Each chapter also outlines the benefits of leveraging Windows Server 2008.

Understand how to: Master DBA tips, tricks, and best practices proven in actual enterprise environments Install, upgrade or transition to SQL Server 2008. Harden and Secure an implementation. Encrypt SQL Server from an end-to-end perspective. Implement high availability—and leverage SQL Server 2008's major improvements to failover clustering and database mirroring Save time with SQL Server 2008's new policy-based management tools Performance tune and troubleshoot a SQL Server 2008 environment. Optimize application performance and manage workloads with the powerful new Resource Governor Implement Performance Studio, maintenance plans, Transparent Data Encryption and much more... Bonus Content: The book is based on Windows Server 2008 Step by step instructions of how to implement a failover cluster on Windows Server 2008 SQL Server PoweShell Administration Tasks Consolidate and virtualize SQL Server with Hyper-V Step by step instructions on how to install Hyper-V Proactively Monitor SQL Server with Operations Manager Install Windows Server 2008 certificates to encrypt SQL Server data Contributing Writers include: Hilary Cotter – SQL Server MVP John Welch – SQL Server MVP Marco Shaw – PowerShell MVP

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Maciej Pilecki – SQL Server MVP Shirmattie Seenarine – Technical Writer

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Implement, maintain, and repair SQL Server 2012databases As the most significant update since 2008, Microsoft SQL Server2012 boasts updates and new features that are critical tounderstand. Whether you manage and administer SQL Server 2012 orare planning to get your MCSA: SQL Server 2012 certification, thisbook is the perfect supplement to your learning and preparation.From understanding SQL Server's roles to implementing businessintelligence and reporting, this practical book explores tasks andscenarios that a working SQL Server DBA faces regularly and showsyou step by step how to handle them. Includes practice exams and coverage of exam objectives forthose seeking MSCA: SQL Server 2012 certification Explores the skills you'll need on the job as a SQL Server 2012DBA Discusses designing and implementing database solutions Walks you through administrating, maintaining, and securing SQLServer 2012 Addresses implementing high availability and datadistribution Includes bonus videos where the author walks you through someof the more difficult tasks expected of a DBA Featuring hands-on exercises and real-world scenarios, thisresource guides you through the essentials of implementing,maintaining, and repairing SQL Server 2012 databases.

- Expertly introduces the new programmability, business intelligence, and enterprise data management features in the next version of SQL Server--from a developer's point of view - Demonstrates how the technology's tighter integration with Visual Studio and the .NET Framework, SQL Server Workbench, and shared language base provide end-to-end development tools - With code samples in both T-SQL and C#, readers can tap into their existing programming skills to get productive right away with the new SQL Server Yokon is the

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next major release for SQL Server. With a major emphasis on features for developers, including tighter integration with Visual Studio, innovation for Yukon concentrates on programmability, business intelligence, and enterprise data management. From Yukon Overview NDA.ppt on <http://sqlweb>, the following points speak directly to the developer audience

- Enable developers to take advantage of existing skills - Use existing tools/processes (VS, SourceSafe, etc)
- Multiple languages: T-SQL, VB.NET, C#...
- One development framework for relational, XML, OLAP
- Extend and connect data across any platform
- Native support for XML, Web Services
- Interoperability with any platform, application
- Open standards: HTTP, Soap, WSDL, XQuery, XSD
- Provide end-to-end development tools
- Integrated SQL Server Workbench
- Simplified and consistent source control environment
- Work in Project and Server modes for fast deployment

Yukon will bring together .NET developers and the T-SQL programmers by providing a common development environment, .NET integration and a shared language base.

* First book on the market to show how to effectively exploit the new .NET capabilities of the SQL Server 2005 database. * Broad audience, with strong appeal to SQL Server developers as well as to VB.NET and C# programmers. * Provides a detailed and example-driven tutorial on how to build and use .NET assemblies. Shows not only what you can do with assemblies, but what you should, and should not, do.

Pro SQL Database for Windows Azure, 2nd Edition shows how to create enterprise-level database deployments without the usual investment in datacenter and other infrastructure. Take advantage instead of Microsoft's worldwide backbone for cloud computing that delivers all the power of SQL Server in the form of the cloud-based SQL Database for Windows Azure.

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You can create and deploy a database in mere minutes that is accessible worldwide and takes advantage of SQL Database's high-availability features to protect your data while ensuring 99.9% uptime. SQL Azure is ideally suited for startups, who can benefit from instant access to a robust and secure web-accessible database platform for use in rapidly deploying new products to market. SQL Azure is also ideal for small and mid-sized businesses, giving them the same ability to deploy SQL Server as any large enterprise, but without the management overhead. Even large enterprises find SQL Azure useful in creating failover environments, development environments, extra capacity to handle surges in demand, and more. Pro SQL Database for Windows Azure covers the very latest in Microsoft's fast-moving, cloud platform, showing how to program and administer it in a variety of cloud computing scenarios. You'll learn to program SQL Azure from ASP.NET, from WinForms, and from SQL Reporting Services. You'll learn to manage the platform by planning for scalability, troubleshooting performance issues, and implementing strong security. You'll learn the unique aspects of SQL Azure such as sharding and federation support that combine to place SQL Azure a step above and ahead of the competition. Shows how to use SQL Azure from classic Windows applications, ASP.NET and Windows Communication Foundation Covers management, performance, scalability, and troubleshooting Addresses the all-important issue of securing your data Helps you properly design for high-performance in a cloud environment Helps you adopt the new Federations feature in SQL Azure Pro SQL Server Internals explains how different SQL Server components work "under the hood" and how they communicate with each other. This is the practical book with a large number of examples that will show you how various design and implementation decisions

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affect the behavior and performance of your systems. Pro SQL Server Internals covers a multiple SQL Server versions starting with SQL Server 2005 all the way up to the recently released SQL Server 2014. You'll learn about new SQL Server 2014 features including the new Cardinality Estimator, In-Memory OLTP Engine (codename Hekaton), and Clustered Columnstore Indexes. With Pro SQL Server Internals, you have a solid roadmap for understanding the depth and power of the SQL Server database backend, regardless of the version and edition of SQL Server you use. Pro SQL Server Internals does the following:

- Explains how to design efficient database schema, indexing, and transaction strategies. Shows how various database objects and technologies are implemented internally and when they should or should not be used. Demonstrates how SQL Server executes queries and works with data and transaction logs.

Pro SQL Server 2008 Mirroring is your complete guide to planning, using, deploying, and maintaining database mirroring as a high-availability option. Mirroring protects you by maintaining one or more duplicate copies of your database for use in the event the primary copy is damaged. It is a key component of any production-level, high-availability solution. This book covers the full spectrum of database mirroring, taking you from the planning phase through the implementation to the maintenance phase and beyond. Easy to follow, step-by-step instructions for beginner and intermediate users In-depth, detailed information for advanced and expert users Covers all phases of database mirroring from planning to sustained maintenance

Service Broker is a key Microsoft product in support of message-based processing between applications. Pro SQL Server 2008 Service Broker helps you to take full advantage of this key

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Microsoft technology, beginning from the fundamentals, moving through installation and application development, and ultimately showing you how to develop highly available and scalable applications based upon the service-oriented architecture that is quickly gaining ground as the way forward in application development. Comprehensive approach to developing with Service Broker Strong focus on best practices and real-world scenarios Covers the key aspects of distributed application design

Pro SQL Server 2012 Administration is a one-stop source for all the knowledge you'll need to professionally manage a database under Microsoft SQL Server 2012. SQL Server administration is a complex field requiring an unusually broad and well-rounded skill set. A good database administrator must be part system administrator, part database design expert, and part SQL tuning optimization guru. Above all, he or she must be capable of restoring a damaged database at any time. Database administration requires excellent people skills for dealing with management and clients, and solid technical skills for dealing with the hardware and the software. Pro SQL Server 2012 Administration addresses all aspects of database administration, regardless of the size of the implementation. Install SQL Server 2012 and create new database environments. Develop a sound backup strategy for your database. Perform recovery as needed, which many consider to be job #1. Authors Ken Simmons and Sylvester Carstarphen also help you automate your work through the use of policy-based management. Performance optimization gets good coverage, so that you can render assistance when developers need help with problem queries. Rare among database and other technical books is solid guidance on the people side of the equation. Success as a database administrator comes from working well with others, becoming involved in the community, and

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building the right combination of technical knowledge and people skills to solve problems and get things done professionally and amicably. Simmons and Carstarphen pay special attention to these aspects of the job in this new edition of their comprehensive book on SQL Server administration. Helps you manage a SQL Server 2012 database at professional level Covers the gamut of database administration skills Provides guidance on performance optimization 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 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 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 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:

- Provides detailed knowledge of new SQL Server 2016 features and enhancements
- Includes revamped coverage of columnstore indexes and In-Memory OLTP
- Covers indexing

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and transaction strategies • Shows how various database objects and technologies 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, 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 Pro SQL Server Internals is a book 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. Business intelligence projects do not need to cost multi-millions of dollars or take months or even years to complete! Using rapid application development (RAD) techniques along with Microsoft SQL Server 2012, this book guides database administrators, SQL programmers, and report specialists in creating practical, cost-effective business intelligence solutions for their companies and departments. Pro SQL Server 2012 BI Solutions provides practical examples of cost-effective business intelligence projects. Readers will be guided through several complete projects that build a foundation for real-world solutions. Even with limited experience using Microsoft's SQL Server, Integration Server, Analysis Server, and Reporting Server, you can leverage your existing knowledge of SQL programming and database design to provide users with the business intelligence reports they need. Provides recipes for multiple business intelligence scenarios Progresses from simple to advanced projects using several examples

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Shows Microsoft SQL Server technology used to complete real-world business intelligence projects

Fill the gap between planning and doing with SSIS 2014 The 2014 release of Microsoft's SQL Server Integration Services provides enhancements for managing extraction, transformation, and load operations, plus expanded in-memory capabilities, improved disaster recovery, increased scalability, and much more. The increased functionality will streamline your ETL processes and smooth out your workflow, but the catch is that your workflow must change. New tools come with new best practices, and Professional Microsoft SQL Server 2014 Integration Services will keep you ahead of the curve. SQL Server MVP Brian Knight is the most respected name in the business, and your ultimate guide to navigating the changes to use Microsoft SQL Server Integration Services 2014 to your utmost advantage. Implement new best practices for effective use of SSIS Work through tutorials for hands-on learning of complex techniques Read case studies that illustrate the more advanced concepts Learn directly from the foremost authority on SSIS SQL Server Integration Services is a complex tool, but it's the lifeblood of your work. You need to know it inside out, and you must understand the full potential of its capabilities in order to use it effectively. You need to make sure the right architecture is in place. Professional Microsoft SQL Server 2014 Integration Services is your roadmap to understanding SSIS on a fundamental level, and setting yourself up for success. The industry's most complete, useful, and up-to-date guide to SQL Server 2014. You'll find start-to-finish coverage of SQL Server's core database server and management capabilities: all the real-world information, tips, guidelines, and examples you'll need to install, monitor, maintain, and optimize the most complex database environments. The provided examples and

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sample code provide plenty of hands-on opportunities to learn more about SQL Server and create your own viable solutions. Four leading SQL Server experts present deep practical insights for administering SQL Server, analyzing and optimizing queries, implementing data warehouses, ensuring high availability, tuning performance, and much more. You will benefit from their behind-the-scenes look into SQL Server, showing what goes on behind the various wizards and GUI-based tools. You'll learn how to use the underlying SQL commands to fully unlock the power and capabilities of SQL Server. Writing for all intermediate-to-advanced-level SQL Server professionals, the authors draw on immense production experience with SQL Server. Throughout, they focus on successfully applying SQL Server 2014's most powerful capabilities and its newest tools and features. Detailed information on how to... Understand SQL Server 2014's new features and each edition's capabilities and licensing Install, upgrade to, and configure SQL Server 2014 for better performance and easier management Streamline and automate key administration tasks with Smart Admin Leverage powerful new backup/restore options: flexible backup to URL, Managed Backup to Windows Azure, and encrypted backups Strengthen security with new features for enforcing "least privilege" Improve performance with updateable columnstore indexes, Delayed Durability, and other enhancements Execute queries and business logic more efficiently with memoryoptimized tables, buffer pool extension, and natively-compiled stored procedures Control workloads and Disk I/O with the Resource Governor Deploy AlwaysOn Availability Groups and Failover Cluster Instances to achieve enterprise-class availability and disaster recovery Apply new Business Intelligence improvements in Master Data Services, data quality, and Parallel Data Warehouse

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This book is your field guide to planning, deploying, managing, and troubleshooting Always On Availability Groups. The Always On Availability Groups feature is an enterprise-level solution for high availability and disaster recovery. Always On provides a rich set of options that reduce overhead and resource usage and enable database administrators to implement and manage high availability and disaster recovery solutions far more easily than by implementing the log-shipping and database-mirroring solutions of the past. Pro SQL Server Always On Availability Groups shows how to reduce downtime, maximize application availability, and provide data protection. The goal is always to have your SQL Server databases up and running whenever you need them, rain or shine, disaster or otherwise. With a focus on real-world experiences and war stories, authors Uttam Parui and Vivek Sanil offer you: Tips, tricks, and best practices for architecting and deploying availability groups. The confidence required to manage and monitor availability groups. Techniques to troubleshoot common issues that you may face during and after deploying availability groups in a mission-critical production environment. What You Will Learn Grasp important concepts underlying high-availability and disaster recovery. Plan and deploy Always On Availability Groups in your corporate environment. Manage Availability Groups to ensure constant readiness and high throughput. Monitor Availability Group performance and troubleshoot problems fast. Build on the cloud and make Windows Azure part of your availability solution. Employ proven techniques and best practices as tested and shared by the authors. Audience Pro SQL Server Always On Availability Groups is aimed at SQL Server architects, database administrators, and IT professionals who are tasked with architecting and deploying a high-availability and disaster recovery solution involving Microsoft SQL Server. This book is also for SQL Server support staff who will be

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managing and supporting existing availability group deployments.

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