

Administering A Sql Database Infrastructure 20764 H2vk9s

Exam Ref 70-764 Administering a SQL Database Infrastructure *Exam Ref 70-764 Administering a SQL Database Infrastructure 45 Test Prep Questions* **Exam Ref 70-765 Provisioning SQL Databases** *SQL Server 2017 Administration Inside Out* **MCSA SQL 2016 Database Administration** *Exam Ref 2-Pack SQL Server 2019 Administration Inside Out* *Exam Ref 70-761 Querying Data with Transact-SQL* **Professional Azure SQL Managed Database Administration** *The Shortcut Guide to SQL Server Infrastructure Operation* **Professional Azure SQL Database Administration** **The SQL Server DBA's Guide to Docker Containers** *Exam Ref 70-762 Developing SQL Databases* *Virtualizing SQL Server with VMware Database Reliability Engineering* *Pro SQL Server 2012 Practices* *Pro SQL Database for Windows Azure* *Pro SQL Database for Windows Azure Professional Azure SQL Database Administration* *Windows Azure SQL Database Step by Step* *Professional Azure SQL Database Administration* **SQL Server Query Performance Tuning Distilled** *Securing SQL Server* *Getting Started with SQL Server 2014 Administration* *Designing SQL Server 2000 Databases* **Frontiers in Massive Data Analysis** *Azure SQL Revealed* **SQL Server 2008 Administration** *SQL Server 2008 Query Performance Tuning Distilled* **Concepts of Database Management** *MCITP Administrator Cloud Database Development and Management* **Mastering SQL Server 2005 Reporting Services Infrastructure Design** *Microsoft Azure Infrastructure Services for Architects* *Understanding Big Data Scalability* **Cloud Computing** *Exam Ref 70-533 Implementing Microsoft Azure Infrastructure Solutions* *Exam 70-414 Implementing an Advanced Server Infrastructure* *Exam 98-364 MTA Database Administration Fundamentals* *Mastering VMware vSphere 5.5* **Azure Infrastructure as Code**

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Mastering SQL Server 2005 Reporting Services Infrastructure Design Feb 25 2020 Reporting Services is a powerful tool for SQL Server 2005 database administrators, developers, and other IT professionals, enabling them to make sense of the immense amount of data generated by enterprises

of all sizes Shows readers how to create, manage, and distribute information as well as how to design, produce, and distribute reports that meet the needs of the stakeholder Contains practical insights and real-world solutions not found in other books Bridges the gap between those who manage data and those who need it

Microsoft Azure Infrastructure Services for Architects Jan 26 2020 An expert guide for IT administrators needing to create and manage a public cloud and virtual network using Microsoft Azure With Microsoft Azure challenging Amazon Web Services (AWS) for market share, there has been no better time for IT professionals to broaden and expand their knowledge of Microsoft's flagship virtualization and cloud computing service. Microsoft Azure Infrastructure Services for Architects: Designing Cloud Solutions helps readers develop the skills required to understand the capabilities of Microsoft Azure for Infrastructure Services and implement a public cloud to achieve full virtualization of data, both on and off premise. Microsoft Azure provides granular control in choosing core infrastructure components, enabling IT administrators to deploy new Windows Server and Linux virtual machines, adjust usage as requirements change, and scale to meet the infrastructure needs of their entire organization. This accurate, authoritative book covers topics including IaaS cost and options, customizing VM storage, enabling external connectivity to Azure virtual machines, extending Azure Active Directory, replicating and backing up to Azure, disaster recovery, and much more. New users and experienced professionals alike will: Get expert guidance on understanding, evaluating, deploying, and maintaining Microsoft Azure environments from Microsoft MVP and technical specialist John Savill Develop the skills to set up cloud-based virtual machines, deploy web servers, configure hosted data stores, and use other key Azure technologies Understand how to design and implement serverless and hybrid solutions Learn to use enterprise security guidelines for Azure deployment Offering the most up to date information and practical advice, Microsoft Azure Infrastructure Services for Architects: Designing Cloud Solutions is an essential resource for IT administrators, consultants and engineers responsible for learning, designing, implementing, managing, and maintaining Microsoft virtualization and cloud technologies.

Professional Azure SQL Database Administration Jan 18 2022 Discover how you can migrate a traditional on-premise SQL server database to a cloud-based solution with Microsoft Azure. Built with database administrators in mind, this book emulates different scenarios you might come across while working with large, complex SQL database migrations and provides solutions for effectively managing the migrated databases. Key Features Implement backup, restore, and recovery of Azure SQL databases Create shards and elastic pools to scale Azure SQL databases Automate common management tasks with PowerShell Implement over 40 practical activities and exercises across 24 topics to reinforce your learning Book Description As the cloud version of SQL Server, Azure SQL Database differs in key ways when it comes to management, maintenance, and administration. It's important to know how to administer SQL Database to fully benefit from all of the features and functionality that it provides. This book addresses important aspects of an Azure SQL Database instance such as migration, backup restorations, pricing policies, security, scalability, monitoring, performance optimization, high availability, and disaster recovery. It is a complete guide for database administrators, and ideal for those who are planning to migrate from on premise SQL Server database to an Azure SQL Server database. What you will learn Learn how to provision a new database or migrate an existing on-premise solution Understand how to backup, restore, secure, and scale your own Azure SQL Database Optimize the performance by monitoring and tuning your cloud-based SQL instance Implement high availability and disaster recovery procedures with SQL Database Develop a roadmap for your own scalable cloud solution with Azure SQL Database Who this book is for This book is ideal for database administrators, database developers, or application developers who are interested in developing or migrating existing applications with Azure SQL Database. Prior experience of working with an on-premise SQL Server deployment and brief knowledge of PowerShell and C# are recommended

prerequisites.

Securing SQL Server Jan 06 2021 SQL server is the most widely-used database platform in the world, and a large percentage of these databases are not properly secured, exposing sensitive customer and business data to attack. In *Securing SQL Server, Third Edition*, you will learn about the potential attack vectors that can be used to break into SQL server databases as well as how to protect databases from these attacks. In this book, Denny Cherry - a Microsoft SQL MVP and one of the biggest names in SQL server - will teach you how to properly secure an SQL server database from internal and external threats using best practices as well as specific tricks that the author employs in his role as a consultant for some of the largest SQL server deployments in the world. Fully updated to cover the latest technology in SQL Server 2014, this new edition walks you through how to secure new features of the 2014 release. New topics in the book include vLANs, setting up RRAS, anti-virus installs, key management, moving from plaintext to encrypted values in an existing application, securing Analysis Services Objects, Managed Service Accounts, OS rights needed by the DBA, SQL Agent Security, Table Permissions, Views, Stored Procedures, Functions, Service Broker Objects, and much more. Presents hands-on techniques for protecting your SQL Server database from intrusion and attack Provides the most in-depth coverage of all aspects of SQL Server database security, including a wealth of new material on Microsoft SQL Server 2014. Explains how to set up your database securely, how to determine when someone tries to break in, what the intruder has accessed or damaged, and how to respond and mitigate damage if an intrusion occurs.

SQL Server 2008 Query Performance Tuning Distilled Jun 30 2020 *SQL Server 2008 Query Performance Tuning Distilled* presents a direct 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 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 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 areas.

MCSA SQL 2016 Database Administration Exam Ref 2-Pack Jun 23 2022 Direct from Microsoft, these Exam Refs are the official study guides for the new Microsoft 70-764 Administering a SQL Database Infrastructure and Microsoft 70-765 Provisioning SQL Databases certification exams. Exam Ref 70-764 Administering a SQL Database Infrastructure and Exam Ref 70-765 Provisioning SQL Databases offer professional-level preparation that helps candidates maximize their exam performance and sharpen their skills on the job. Microsoft Exam Ref publications stand apart from third-party study guides because they: Provide guidance from Microsoft, the creator of Microsoft certification exams Target IT professional-level exam candidates with content focused on their needs, not "one-size-fits-all" content Streamline study by organizing material according to the exam's objective domain (OD), covering one functional group and its objectives in each chapter Feature Thought Experiments to guide candidates through a set of "what if?" scenarios, and prepare them more effectively for Pro-level style exam questions Explore big picture thinking around the planning and design aspects of the IT pro's job role For more information on this certification, visit microsoft.com/learning

Cloud Database Development and Management Mar 28 2020 Although today's job market requires IT professionals to understand cloud computing theories and have hands-on skills for developing real-world database systems, there are few books available that integrate coverage of both. Filling this void, *Cloud Database Development and Management* explains how readers can take advantage of the cloud environment to develop their own fully functioning database systems without any additional investment in IT infrastructure. Filled with step-by-step instructions, examples, and hands-on

projects, the book begins by providing readers with the required foundation in database systems and cloud-based database development tools. It supplies detailed instructions on setting up data storage on Windows Azure and also explains how readers can develop their own virtual machines with Windows Server 2012 as the guest operating system. The book's wide-ranging coverage includes database design, database implementation, database deployment to the cloud environment, SQL Database, Table Storage service, Blob Storage service, Queue Storage service, and database application development. The text deals with all three aspects of database design: conceptual design, logical design, and physical design. It introduces the SQL language, explains how to use SQL to create database objects, and introduces the migration of the database between Windows Azure and the on-premises SQL Server. It also discusses the management tasks that keep both SQL Database and Windows Azure running smoothly. Detailing how to design, implement, and manage database systems in the cloud, the book provides you with tools that can make your cloud database development much more efficient and flexible. Its easy-to-follow instructions will help you develop the hands-on skills needed to store and manage critical business information and to make that data available anytime through the Internet.

SQL Server 2019 Administration Inside Out May 22 2022 Conquer SQL Server 2019 administration—from the inside out Dive into SQL Server 2019 administration—and really put your SQL Server DBA expertise to work. This supremely organized reference packs hundreds of timesaving solutions, tips, and workarounds—all you need to plan, implement, manage, and secure SQL Server 2019 in any production environment: on-premises, cloud, or hybrid. Six experts thoroughly tour DBA capabilities available in SQL Server 2019 Database Engine, SQL Server Data Tools, SQL Server Management Studio, PowerShell, and Azure Portal. You'll find extensive new coverage of Azure SQL, big data clusters, PolyBase, data protection, automation, and more. Discover how experts tackle today's essential tasks—and challenge yourself to new levels of mastery. Explore SQL Server 2019's toolset, including the improved SQL Server Management Studio, Azure Data Studio, and Configuration Manager Design, implement, manage, and govern on-premises, hybrid, or Azure database infrastructures Install and configure SQL Server on Windows and Linux Master modern maintenance and monitoring with extended events, Resource Governor, and the SQL Assessment API Automate tasks with maintenance plans, PowerShell, Policy-Based Management, and more Plan and manage data recovery, including hybrid backup/restore, Azure SQL Database recovery, and geo-replication Use availability groups for high availability and disaster recovery Protect data with Transparent Data Encryption, Always Encrypted, new Certificate Management capabilities, and other advances Optimize databases with SQL Server 2019's advanced performance and indexing features Provision and operate Azure SQL Database and its managed instances Move SQL Server workloads to Azure: planning, testing, migration, and post-migration

Azure SQL Revealed Sep 02 2020 Access detailed content and examples on Azure SQL, a set of cloud services that allows for SQL Server to be deployed in the cloud. This book teaches the fundamentals of deployment, configuration, security, performance, and availability of Azure SQL from the perspective of these same tasks and capabilities in SQL Server. This distinct approach makes this book an ideal learning platform for readers familiar with SQL Server on-premises who want to migrate their skills toward providing cloud solutions to an enterprise market that is increasingly cloud-focused. If you know SQL Server, you will love this book. You will be able to take your existing knowledge of SQL Server and translate that knowledge into the world of cloud services from the Microsoft Azure platform, and in particular into Azure SQL. This book provides information never seen before about the history and architecture of Azure SQL. Author Bob Ward is a leading expert with access to and support from the Microsoft engineering team that built Azure SQL and related database cloud services. He presents powerful, behind-the-scenes insights into the workings of one of the most popular database cloud services in the industry. What You Will Learn Know the history of Azure SQL Deploy, configure, and connect to

Azure SQL Choose the correct way to deploy SQL Server in Azure Migrate existing SQL Server instances to Azure SQL Monitor and tune Azure SQL's performance to meet your needs Ensure your data and application are highly available Secure your data from attack and theft Who This Book Is For This book is designed to teach SQL Server in the Azure cloud to the SQL Server professional. Anyone who operates, manages, or develops applications for SQL Server will benefit from this book. Readers will be able to translate their current knowledge of SQL Server—especially of SQL Server 2019—directly to Azure. This book is ideal for database professionals looking to remain relevant as their customer base moves into the cloud. Pro SQL Database for Windows Azure Jun 11 2021 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. 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

Exam Ref 70-761 Querying Data with Transact-SQL Apr 21 2022 Prepare for Microsoft Exam 70-761—and help demonstrate your real-world mastery of SQL Server 2016 Transact-SQL data management, queries, and database programming. Designed for experienced IT professionals ready to advance their status, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: • Filter, sort, join, aggregate, and modify data • Use subqueries, table expressions, grouping sets, and pivoting • Query temporal and non-relational data, and output XML or JSON • Create views, user-defined functions, and stored procedures • Implement error handling, transactions, data types, and nulls This Microsoft Exam Ref: • Organizes its coverage by exam objectives • Features strategic, what-if scenarios to challenge you • Assumes you have experience working with SQL Server as a database administrator, system engineer, or developer • Includes downloadable sample database and code for SQL Server 2016 SP1 (or later) and Azure SQL Database Querying Data with Transact-SQL About the Exam Exam 70-761 focuses on the skills and knowledge necessary to manage and query data and to program databases with Transact-SQL in SQL Server 2016. About Microsoft Certification Passing this exam earns you credit toward a Microsoft Certified Solutions Associate (MCSA) certification that demonstrates your mastery of essential skills for building and implementing on-premises and cloud-based databases across organizations. Exam 70-762 (Developing SQL Databases) is also required for MCSA: SQL 2016 Database Development certification. See full details at: microsoft.com/learning

SQL Server 2017 Administration Inside Out Jul 24 2022 Conquer SQL Server 2017 administration—from the inside out Dive into SQL Server 2017 administration—and really put your SQL Server DBA expertise to work. This supremely organized reference packs hundreds of timesaving solutions, tips, and workarounds—all you need to plan, implement, manage, and secure SQL Server 2017 in any production environment: on-premises, cloud, or hybrid. Four SQL Server experts offer a complete tour of DBA capabilities available in SQL Server 2017 Database Engine, SQL Server Data Tools, SQL Server Management Studio, and via PowerShell. Discover how experts tackle today’s essential tasks—and challenge yourself to new levels of mastery.

- Install, customize, and use SQL Server 2017’s key administration and development tools
- Manage memory, storage, clustering, virtualization, and other components
- Architect and implement database infrastructure, including IaaS, Azure SQL, and hybrid cloud configurations
- Provision SQL Server and Azure SQL databases
- Secure SQL Server via encryption, row-level security, and data masking
- Safeguard Azure SQL databases using platform threat protection, firewalling, and auditing
- Establish SQL Server IaaS network security groups and user-defined routes
- Administer SQL Server user security and permissions
- Efficiently design tables using keys, data types, columns, partitioning, and views
- Utilize BLOBs and external, temporal, and memory-optimized tables
- Master powerful optimization techniques involving concurrency, indexing, parallelism, and execution plans
- Plan, deploy, and perform disaster recovery in traditional, cloud, and hybrid environments

For Experienced SQL Server Administrators and Other Database Professionals

- Your role: Intermediate-to-advanced level SQL Server database administrator, architect, developer, or performance tuning expert
- Prerequisites: Basic understanding of database administration procedures

Virtualizing SQL Server with VMware Oct 15 2021 The start-to-finish guide to virtualizing business-critical SQL Server databases on VMware vSphere 5 By virtualizing business-critical databases, enterprises can drive far more value from existing IT infrastructure. But squeezing maximum performance out of a virtualized database instance is an art as much as a science. This indispensable start-to-finish guide brings together all the techniques, tips, and insights you need to succeed. Drawing on unsurpassed personal experience, three leading experts share complete best practices for deploying business-critical database servers in virtualized vSphere 5 environments. They cover the entire project lifecycle, bridging technical and communications gaps between SQL Server and VMware professionals that often make database virtualization more difficult than it needs to be. You’ll find specific guidance for architects and administrators responsible for systems, storage, databases, applications, or VMware virtualization. The authors also present detailed, start-to-finish coverage of performance baselining and testing: all you need to make your virtualized databases as fast as they are cost effective. Although this book focuses on SQL, the authors’ proven guidance for enhancing performance can be leveraged by any IT professional virtualizing a demanding Tier 1 application. Coverage includes

- Business cases for database virtualization: consolidation, Database as a Service (DaaS), efficiency, and “SLAs on steroids”
- Using the redundancy inherent in virtualization to improve availability
- Constructing a careful, conservative implementation plan
- Balancing disk, CPU, memory, and network for superior performance
- Mastering the five key principles of database storage design
- Leveraging memory: SQL MAX, page locking, NUMA, reservations, swapping, large memory pages, and more
- Ensuring responsiveness by providing a fast, reliable, low-latency network
- Supporting advanced AlwaysOn Failover Cluster Instances and Availability Groups
- Baselining physical systems and properly determining resource requirements
- Configuring performance tests from beginning to end
- Migrating existing SQL Server databases onto a vSphere platform
- Avoiding traps and pitfalls in virtualizing production databases
- Managing and monitoring virtualized database instances and resources

Getting Started with SQL Server 2014 Administration Dec 05 2020 This is an easytofollow hands-on tutorial that includes real world examples of SQL Server 2014's new features. Each chapter is explained in a stepbystep manner which guides you to implement the new technology. If you want to create

an highly efficient database server then this book is for you. This book is for database professionals and system administrators who want to use the added features of SQL Server 2014 to create a hybrid environment, which is both highly available and allows you to get the best performance from your databases.

Exam Ref 70-765 Provisioning SQL Databases Aug 25 2022 Prepare for Microsoft Exam 70-765-and help demonstrate your real-world mastery of provisioning SQL Server databases both on premise and in SQL Azure. Designed for experienced IT professionals ready to advance their status, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: * Implement SQL in Azure * Manage databases and instances * Manage storage This Microsoft Exam Ref: * Organizes its coverage by exam objectives * Features strategic, what-if scenarios to challenge you * Assumes you have working knowledge of SQL Server administration and maintenance, as well as Azure skills Provisioning SQL Databases About the Exam Exam 70-765 focuses on skills and knowledge for provisioning, upgrading, and configuring SQL Server; managing databases and files; and provisioning, migrating, and managing databases in the Microsoft Azure cloud. About Microsoft Certification Passing this exam as well as Exam 70-764: Administering a SQL Database Infrastructure earns you MCSA: SQL 2016 Database Administration certification, qualifying you for a position as a database administrator or infrastructure specialist. See full details at: microsoft.com/learning

Exam Ref 70-762 Developing SQL Databases Nov 16 2021 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Prepare for Microsoft Exam 70-762, Developing SQL Databases —and help demonstrate your real-world mastery of skills for building and implementing databases across organizations. Designed for database professionals who build and implement databases across organizations and who ensure high levels of data availability, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: • Design and implement database objects • Implement programmability objects • Manage database concurrency • Optimize database objects and SQL infrastructure This Microsoft Exam Ref: • Organizes its coverage by exam objectives • Features strategic, what-if scenarios to challenge you • Assumes you have working knowledge of Microsoft Windows, Transact-SQL, and relational databases About the Exam Exam 70-762 focuses on skills and knowledge for building and implementing databases across organizations and ensuring high levels of data availability. About Microsoft Certification Passing this exam earns you credit toward a Microsoft Certified Solutions Associate (MCSA) certification that demonstrates your mastery of modern database development. Exam 70-761 (Querying Data with Transact-SQL) is also required for MCSA: SQL 2016 Database Development. See full details at: microsoft.com/learning

Pro SQL Server 2012 Practices Aug 13 2021 Pro SQL Server 2012 Practices is an anthology of high-end wisdom from a group of accomplished database administrators who are quietly but relentlessly pushing the performance and feature envelope of Microsoft SQL Server 2012. With an emphasis upon performance—but also branching into release management, auditing, and other issues—the book helps you deliver the most value for your company’s investment in Microsoft’s flagship database system. Goes beyond the manual to cover good techniques and best practices Delivers knowledge usually gained only by hard experience Focuses upon performance, scalability, reliability Helps achieve the predictability needed to be in control at all times

Cloud Computing Nov 23 2019 Cloud Computing

The SQL Server DBA’s Guide to Docker Containers Dec 17 2021 Get introduced to the world of Docker containers from a SQL Server DBA’s

perspective. This book explains container technology and how it can improve the deployment of your SQL Server databases without infrastructure lock-in. You will be equipped with the right technical skills to guide stakeholders in your business as they adopt and adapt to new technologies to improve time-to-market and competitiveness. You will learn how to build a lab environment at home on which to build skills that transfer directly into your day job. This book teaches you how to install and configure Docker on both Windows Server and Linux operating systems. You will learn the most common Docker commands that you need to know as a DBA to deploy and manage SQL Server on containers. Support for SQL Server on Linux is new, and this book has your back with guidance on creating Docker images specifically for deployment to a Linux platform. Included is coverage of key Linux commands needed to manage SQL Server on that operating system. By the end of the book you will have learned how to create your own custom SQL Server container images with configuration settings that are specific to your organization, that are capable of being deployed to both Windows Server and Linux. What You Will Learn

- Create Docker containers for agile deployment of SQL Server
- Run multiple SQL Server instances on a single Linux machine
- Deploy custom images specific to your organization's needs
- Know the benefits and architecture of container technology
- Install and configure Docker on Windows Server and Linux
- Manage and persist SQL Server data in Docker containers

Who This Book Is For Intermediate to senior SQL Server DBAs who are familiar with SQL Server on Windows and want to build their existing skills to deploy and manage SQL Server on Linux and through Docker containers. Readers should have a grasp of relational database concepts and be comfortable with the Transact-SQL language.

Exam Ref 70-764 Administering a SQL Database Infrastructure 45 Test Prep Questions Sep 26 2022 This book is designed to be an ancillary to the classes, labs, and hands on practice that you have diligently worked on in preparing to obtain your 70-764: Administering a SQL Database Infrastructure certification. I won't bother talking about the benefits of certifications. This book tries to reinforce the knowledge that you have gained in your process of studying. It is meant as one of the end steps in your preparation for the 70-764 exam. This book is short, but It will give you a good gauge of your readiness. Learning can be seen in 4 stages: 1. Unconscious Incompetence 2. Conscious Incompetence 3. Conscious Competence 4. Unconscious Competence This book will assume the reader has already gone through the needed classes, labs, and practice. It is meant to take the reader from stage 2, Conscious Incompetence, to stage 3 Conscious Competence. At stage 3, you should be ready to take the exam. Only real-world scenarios and work experience will take you to stage 4, Unconscious Competence. Before we get started, we all have doubts when preparing to take an exam. What is your reason and purpose for taking this exam? Remember your reason and purpose when you have some doubts. Obstacle is the way. Control your mind, attitude, and you can control the situation. Persistence leads to confidence. Confidence erases doubts.

Professional Azure SQL Database Administration May 10 2021 Discover how you can migrate a traditional on-premise SQL server database to a cloud-based solution with Microsoft Azure. Built with database administrators in mind, this book emulates different scenarios you might come across while working with large, complex SQL database migrations and provides solutions for effectively managing the migrated databases. Key Features

- Implement backup, restore, and recovery of Azure SQL databases
- Create shards and elastic pools to scale Azure SQL databases
- Automate common management tasks with PowerShell

Implement over 40 practical activities and exercises across 24 topics to reinforce your learning

Book Description

As the cloud version of SQL Server, Azure SQL Database differs in key ways when it comes to management, maintenance, and administration. It's important to know how to administer SQL Database to fully benefit from all of the features and functionality that it provides. This book addresses important aspects of an Azure SQL Database instance such as migration, backup restorations, pricing policies, security, scalability, monitoring, performance optimization, high availability, and disaster recovery. It is a complete guide for database administrators, and ideal for those who are

planning to migrate from on premise SQL Server database to an Azure SQL Server database. What you will learn Learn how to provision a new database or migrate an existing on-premise solution Understand how to backup, restore, secure, and scale your own Azure SQL Database Optimize the performance by monitoring and tuning your cloud-based SQL instance Implement high availability and disaster recovery procedures with SQL Database Develop a roadmap for your own scalable cloud solution with Azure SQL Database Who this book is for This book is ideal for database administrators, database developers, or application developers who are interested in developing or migrating existing applications with Azure SQL Database. Prior experience of working with an on-premise SQL Server deployment and brief knowledge of PowerShell and C# are recommended prerequisites.

Pro SQL Database for Windows Azure Jul 12 2021 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. 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

Professional Azure SQL Database Administration Mar 08 2021 Leverage the features of Azure SQL database and become an expert in data management Key FeaturesExplore ways to create shards and elastic pools to scale Azure SQL databasesAutomate common management tasks with PowerShellImplement over 40 practical activities and exercises to reinforce your learningBook Description Despite being the cloud version of SQL Server, Azure SQL Database differs in key ways when it comes to management, maintenance, and administration. This book shows you how to administer Azure SQL database to fully benefit from its wide range of features and functionality. Professional Azure SQL Database Administration begins by covering the architecture and explaining the difference between Azure SQL Database and the on-premise SQL Server to help you get comfortable with Azure SQL database. You'll perform common tasks such as migrating, backing up, and restoring a SQL Server database to an Azure database. As you progress, you'll study how you can save costs and manage and scale multiple SQL Databases using elastic pools. You'll also implement a disaster recovery solution using standard and active geo-replication. Whether it is learning different techniques to monitor and tune an Azure SQL database or improving performance using in-memory technology, this book will enable you to make the most out of Azure SQL database features and functionality for data management solutions. By the end of this book, you'll be well versed with key aspects of an Azure SQL database

instance, such as migration, backup restorations, performance optimization, high availability, and disaster recovery. What you will learn

- Understand Azure SQL Database configuration and pricing options
- Provision a new SQL database or migrate an existing on-premise SQL Server database to Azure SQL Database
- Back up and restore Azure SQL Database
- Secure an Azure SQL database
- Scale an Azure SQL database
- Monitor and tune an Azure SQL database
- Implement high availability and disaster recovery with Azure SQL Database
- Automate common management tasks with PowerShell
- Develop a scalable cloud solution with Azure SQL Database
- Manage, maintain, and secure managed instances

Who this book is for If you're a database administrator, database developer, or an application developer interested in developing new applications or migrating existing ones with Azure SQL database, this book is for you. Prior experience of working with an on-premise SQL Server or Azure SQL database along with a basic understanding of PowerShell scripts and C# code is necessary to grasp the concepts covered in this book.

Windows Azure SQL Database Step by Step Apr 09 2021 Your hands-on guide to Azure SQL Database fundamentals Expand your expertise—and teach yourself the fundamentals of Microsoft Azure SQL Database. If you have previous programming experience but are new to Azure, this tutorial delivers the step-by-step guidance and coding exercises you need to master core topics and techniques. Discover how to: Perform Azure setup and configuration Explore design and security considerations Use programming and reporting services Migrate data Backup and sync data Work with scalability and high performance Understand the differences between SQL Server and Microsoft Azure SQL Database

Database Reliability Engineering Sep 14 2021 The infrastructure-as-code revolution in IT is also affecting database administration. With this practical book, developers, system administrators, and junior to mid-level DBAs will learn how the modern practice of site reliability engineering applies to the craft of database architecture and operations. Authors Laine Campbell and Charity Majors provide a framework for professionals looking to join the ranks of today's database reliability engineers (DBRE). You'll begin by exploring core operational concepts that DBREs need to master. Then you'll examine a wide range of database persistence options, including how to implement key technologies to provide resilient, scalable, and performant data storage and retrieval. With a firm foundation in database reliability engineering, you'll be ready to dive into the architecture and operations of any modern database. This book covers: Service-level requirements and risk management Building and evolving an architecture for operational visibility Infrastructure engineering and infrastructure management How to facilitate the release management process Data storage, indexing, and replication Identifying datastore characteristics and best use cases Datastore architectural components and data-driven architectures

The Shortcut Guide to SQL Server Infrastructure Operation Feb 19 2022

Exam 70-414 Implementing an Advanced Server Infrastructure Sep 21 2019 This Microsoft Official Academic Course (MOAC) IT Professional curriculum prepares certification students for success every step of the way. This 70-414 Implementing an Advanced Server Infrastructure exam course is the second of a series of two exams Microsoft Certified Solutions Associates (MCSE) candidates are required to pass to gain the MCSE: Windows Server 2012 and Windows Server 2012 R2 certification. These MCSE exams test the skills and knowledge necessary to design, implement, and maintain a Windows Server 2012 infrastructure in an enterprise scaled, highly virtualized environment. Passing these exams confirms students' ability to plan, configure, and implement the Windows Server 2012 services, such as server deployment, server virtualization, and network access and infrastructure. This complete ready-to-teach MOAC program is mapped to all of the exam objectives.

Designing SQL Server 2000 Databases Nov 04 2020 The Microsoft .NET initiative is the future of e-commerce - making it possible for organisations to build a secure, reliable e-commerce infrastructure. This is the first book to outline the capabilities of SQL Server 2000, one of the key components of .NET. SQL Server 2000 introduces powerful new data mining functionality designed specifically to capture and process customer profiles and to

predict future buying patterns on e-commerce sites. *Designing SQL Server 2000 Databases* addresses the needs of IT professionals migrating from the popular SQL 7 databases to the new SQL 2000, as well as those who are starting from scratch. Covers all key features of SQL Server 2000 including; XML support, enhanced data-mining capabilities and integration with Windows 2000 While there are many books available on SQL 7 - this is the first to be announced for SQL 2000 Free ongoing customer support and information upgrades

Exam Ref 70-764 Administering a SQL Database Infrastructure Oct 27 2022 Prepare for Microsoft Exam 70-764—and help demonstrate your real-world mastery of skills for database administration. This exam is intended for database administrators charged with installation, maintenance, and configuration tasks. Their responsibilities also include setting up database systems, making sure those systems operate efficiently, and regularly storing, backing up, and securing data from unauthorized access. Focus on the expertise measured by these objectives: • Configure data access and auditing • Manage backup and restore of databases • Manage and monitor SQL Server instances • Manage high availability and disaster recovery This Microsoft Exam Ref: • Organizes its coverage by exam objectives • Features strategic, what-if scenarios to challenge you • Assumes you have working knowledge of database installation, configuration, and maintenance tasks. You should also have experience with setting up database systems, ensuring those systems operate efficiently, regularly storing and backing up data, and securing data from unauthorized access. About the Exam Exam 70-764 focuses on skills and knowledge required for database administration. About Microsoft Certification Passing both Exam 70-764 and Exam 70-765 (Provisioning SQL Databases) earns you credit toward an MCSA: SQL 2016 Database Administration certification. See full details at: microsoft.com/learning

Concepts of Database Management May 30 2020 Strengthen your understanding of database management today with the hands-on, thorough presentation found in *CONCEPTS OF DATABASE MANAGEMENT*, 10th Edition. Real cases, practical examples and helpful screenshots with concise explanations clarify database design, data integrity, normalization, concurrent updates, data security and big data. Completely updated content reflects Microsoft Access 2019, Office 365 standards and SQL Server 2019, while exploring SQL in a database-neutral environment. Detailed coverage presents the relational model (including QBE and SQL), normalization and views as well as database administration and management. You also examine advanced topics, such as distributed databases, data warehouses, stored procedures, triggers, data macros and Web Apps. Trust this contemporary introduction to help you master today's database techniques to advance your career in any field. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Understanding Big Data Scalability Dec 25 2019 Get Started Scaling Your Database Infrastructure for High-Volume Big Data Applications “Understanding Big Data Scalability presents the fundamentals of scaling databases from a single node to large clusters. It provides a practical explanation of what ‘Big Data’ systems are, and fundamental issues to consider when optimizing for performance and scalability. Cory draws on many years of experience to explain issues involved in working with data sets that can no longer be handled with single, monolithic relational databases.... His approach is particularly relevant now that relational data models are making a comeback via SQL interfaces to popular NoSQL databases and Hadoop distributions.... This book should be especially useful to database practitioners new to scaling databases beyond traditional single node deployments.” —Brian O’Kafka, software architect *Understanding Big Data Scalability* presents a solid foundation for scaling Big Data infrastructure and helps you address each crucial factor associated with optimizing performance in scalable and dynamic Big Data clusters. Database expert Cory Isaacson offers practical, actionable insights for every technical professional who must scale a database tier for high-volume applications. Focusing on today’s most common Big Data applications, he introduces proven ways to manage unprecedented data growth from widely diverse sources and to

deliver real-time processing at levels that were inconceivable until recently. Isaacson explains why databases slow down, reviews each major technique for scaling database applications, and identifies the key rules of database scalability that every architect should follow. You'll find insights and techniques proven with all types of database engines and environments, including SQL, NoSQL, and Hadoop. Two start-to-finish case studies walk you through planning and implementation, offering specific lessons for formulating your own scalability strategy. Coverage includes Understanding the true causes of database performance degradation in today's Big Data environments Scaling smoothly to petabyte-class databases and beyond Defining database clusters for maximum scalability and performance Integrating NoSQL or columnar databases that aren't "drop-in" replacements for RDBMSes Scaling application components: solutions and options for each tier Recognizing when to scale your data tier—a decision with enormous consequences for your application environment Why data relationships may be even more important in non-relational databases Why virtually every database scalability implementation still relies on sharding, and how to choose the best approach How to set clear objectives for architecting high-performance Big Data implementations The Big Data Scalability Series is a comprehensive, four-part series, containing information on many facets of database performance and scalability. Understanding Big Data Scalability is the first book in the series. Learn more and join the conversation about Big Data scalability at bigdatascalability.com.

Exam Ref 70-533 Implementing Microsoft Azure Infrastructure Solutions Oct 23 2019 Prepare for the newest versions of Microsoft Exam 70-533—and help demonstrate your real-world mastery of implementing Microsoft Azure Infrastructure as a Service (IaaS). Designed for experienced IT professionals ready to advance their status, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: Design and implement Azure App Service Apps Create and manage compute resources, and implement containers Design and implement a storage strategy, including storage encryption Implement virtual networks, including new techniques for hybrid connections Design and deploy ARM Templates Manage Azure security and Recovery Services Manage Azure operations, including automation and data analysis Manage identities with Azure AD Connect Health, Azure AD Domain Services, and Azure AD single sign on This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assumes you are an IT professional with experience implementing and monitoring cloud and hybrid solutions and/or supporting application lifecycle management This book covers the 533 objectives as of December 2017. If there are updates for this book, you will find them at <https://aka.ms/examref5332E/errata>. About the Exam Exam 70-533 focuses on skills and knowledge for provisioning and managing services in Microsoft Azure, including: implementing infrastructure components such as virtual networks, virtual machines, containers, web and mobile apps, and storage; planning and managing Azure AD, and configuring Azure AD integration with on-premises Active Directory domains. About Microsoft Certification Passing this exam helps qualify you for MCSA: Cloud Platform Microsoft Certified Solutions Associate certification, demonstrating your expertise in applying Microsoft cloud technologies to reduce costs and deliver value. To earn this certification, you must also pass any one of the following exams: 70-532 Developing Microsoft Azure Solutions, or 70-534 Architecting Microsoft Azure Solutions, or 70-535, Architecting Microsoft Azure Solutions, or 70-537: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack.

Professional Azure SQL Managed Database Administration Mar 20 2022 Master data management by effectively utilizing the features of Azure SQL database. Key Features Learn to automate common management tasks with PowerShell. Understand different methods to generate elastic pools and shards to scale Azure SQL databases. Learn to develop a scalable cloud solution through over 40 practical activities and exercises. Book Description Despite being the cloud version of SQL Server, Azure SQL Database and Azure SQL Managed Instance stands out in various aspects when it comes to

management, maintenance, and administration. Updated with the latest Azure features, *Professional Azure SQL Managed Database Administration* continues to be a comprehensive guide for becoming proficient in data management. The book begins by introducing you to the Azure SQL managed databases (Azure SQL Database and Azure SQL Managed Instance), explaining their architecture, and how they differ from an on-premises SQL server. You will then learn how to perform common tasks, such as migrating, backing up, and restoring a SQL Server database to an Azure database. As you progress, you will study how you can save costs and manage and scale multiple SQL databases using elastic pools. You will also implement a disaster recovery solution using standard and active geo-replication. Finally, you will explore the monitoring and tuning of databases, the key features of databases, and the phenomenon of app modernization. By the end of this book, you will have mastered the key aspects of an Azure SQL database and Azure SQL managed instance, including migration, backup restorations, performance optimization, high availability, and disaster recovery. What you will learn

Understanding Azure SQL database configuration and pricing options
Provisioning a new SQL database or migrating an existing on-premises SQL Server database to an Azure SQL database
Backing up and restoring an Azure SQL database
Securing and scaling an Azure SQL database
Monitoring and tuning an Azure SQL database
Implementing high availability and disaster recovery with an Azure SQL database
Managing, maintaining, and securing managed instances

Who this book is for This book is designed to benefit database administrators, database developers, or application developers who are interested in developing new applications or migrating existing ones with Azure SQL database. Prior experience of working with an on-premise SQL Server or Azure SQL database along with a basic understanding of PowerShell scripts and C# code is necessary to grasp the concepts covered in this book.

Mastering VMware vSphere 5.5 Jul 20 2019 The 2013 edition of the bestselling vSphere book on the market Virtualization remains the hottest trend in the IT world, and VMware vSphere is the industry's most widely deployed virtualization solution. The demand for IT professionals skilled in virtualization and cloud-related technologies is great and expected to keep growing. This comprehensive Sybex guide covers all the features and capabilities of VMware vSphere, showing administrators step by step how to install, configure, operate, manage, and secure it. This perfect blend of hands-on instruction, conceptual explanation, and practical application is reinforced with real-world examples. Led by Scott Lowe and Nick Marshall, both VMware vExperts, the author team provides expertise that will prepare IT professionals to excel in using this virtualization technology. Virtualization is seen as a "best practice" for high availability and disaster recovery solutions, as well as for applications such as Exchange Server and SharePoint IDC estimates that there are as many as 7 million jobs available worldwide in virtualization and cloud technology Provides hands-on instruction in all the latest features and capabilities of VMware vSphere, with both conceptual explanations and practical applications Author team is lead by Scott Lowe and Nick Marshall, well-known VMware experts and popular bloggers *Mastering VMware vSphere* provides what every virtualization professional needs to know.

Frontiers in Massive Data Analysis Oct 03 2020 Data mining of massive data sets is transforming the way we think about crisis response, marketing, entertainment, cybersecurity and national intelligence. Collections of documents, images, videos, and networks are being thought of not merely as bit strings to be stored, indexed, and retrieved, but as potential sources of discovery and knowledge, requiring sophisticated analysis techniques that go far beyond classical indexing and keyword counting, aiming to find relational and semantic interpretations of the phenomena underlying the data. *Frontiers in Massive Data Analysis* examines the frontier of analyzing massive amounts of data, whether in a static database or streaming through a system. Data at that scale--terabytes and petabytes--is increasingly common in science (e.g., particle physics, remote sensing, genomics), Internet commerce, business analytics, national security, communications, and elsewhere. The tools that work to infer knowledge from data at smaller scales do

not necessarily work, or work well, at such massive scale. New tools, skills, and approaches are necessary, and this report identifies many of them, plus promising research directions to explore. *Frontiers in Massive Data Analysis* discusses pitfalls in trying to infer knowledge from massive data, and it characterizes seven major classes of computation that are common in the analysis of massive data. Overall, this report illustrates the cross-disciplinary knowledge--from computer science, statistics, machine learning, and application disciplines--that must be brought to bear to make useful inferences from massive data.

Azure Infrastructure as Code Jun 18 2019 Master ARM templates, Bicep, and other Azure Infrastructure-as-Code tools, techniques, and practices to build infrastructure on the Azure cloud. In *Azure Infrastructure as Code* you will learn how to: Create reusable infrastructure templates using advanced features of the ARM (Azure Resource Manager) syntax Write templates with the Azure Bicep domain-specific language (DSL) Test ARM and Bicep templates Deploy templates using deployment pipelines Guarantee repeated outcomes when you reuse templates to replicate infrastructure Share templates between teams Provision templates to provide standards and Azure Policy to enforce them Orchestrate complex deployments using Azure DevOps and GitHub Actions Pre-provision environments for other teams with deployment stacks Azure Infrastructure as Code teaches you to use Azure's native infrastructure as code (IaC) tools, like ARM and Bicep, to build, manage, and scale infrastructure with just a few lines of code. You'll discover ARM templates, deployment stacks, and the powerful new language Bicep. See how easy they make it to create new environments, safely make infrastructure changes, govern your resources using Azure Policy, and prevent configuration drift. Loaded with in-depth coverage of syntax and lots of illustrative examples, this hands-on guide is a must-read for anyone looking to expand their knowledge of provisioning. About the technology Automating tasks like provisioning servers, operating systems, and storage, saves time and radically increases consistency. The Infrastructure as Code (IaC) approach brings the tools and practices of application deployment, such as Github Actions, automated testing, and pipeline-driven deployments, to infrastructure components. With Azure's native IaC tools, you can create whole new infrastructures with just a few lines of code using declarative specifications and an intuitive domain-specific language. About the book *Azure Infrastructure as Code* shows you how to manage and automate your infrastructure using Azure's IaC tools. In this practical guide, you'll discover how to set up Azure Resource Manager (ARM) templates and to script infrastructure creation using the Bicep DSL. You'll also explore advanced topics such as testing, reusing templates, and defining policies as code. You'll even build a complete CI/CD pipeline that can orchestrate a complex infrastructure deployment across multiple regions. What's inside Create reusable infrastructure templates Write templates with the Azure Bicep domain-specific language Deploy templates using deployment pipelines Share templates between teams About the reader For operations, infrastructure, or software engineers with some Azure experience. About the author Henry Been is a freelance DevOps and Azure architect and consultant. Erwin Staal is an Azure architect and DevOps consultant. Eduard Keilholz is a cloud solution architect. Table of Contents PART 1 INTRODUCTION 1 Infrastructure as Code 2 Writing your first ARM template PART 2 TAKING IT UP A NOTCH 3 Writing ARM templates 4 Deploying ARM templates 5 Writing advanced ARM templates 6 Simplifying ARM templates using the Bicep DSL 7 Complex deployments using Azure DevOps 8 Complex deployments using GitHub Actions 9 Testing ARM templates PART 3 ADVANCED TOPICS 10 Template specs and Bicep registries: Building a repository of templates 11 Using deployment stacks for grouping resources 12 Governing your subscriptions using Azure Policy 13 Case studies

SQL Server 2008 Administration Aug 01 2020 The ideal on-the-job reference guide for SQL Server 2008 database administrators If you manage and administer SQL Server 2008 in the real world, you need this detailed guide at your desk. From planning to disaster recovery, this practical book explores tasks and scenarios that a working SQL Server DBA faces regularly and shows you step by step how to handle them. Topics include

installation and configuration, creating databases and tables, optimizing the database server, planning for high availability, and more. And, if you're preparing for MCTS or MCITP certification in SQL Server 2008 administration, this book is the perfect supplement to your preparation, featuring a CD with practice exams, flashcards, and video walkthroughs of the more difficult administrative tasks Delves into Microsoft's SQL Server 2008, a rich set of enterprise-level database services for business-critical applications Explores the skills you'll need on the job as a SQL Server 2008 administrator Shows you how to implement, maintain, and repair the SQL Server database, including bonus videos on the CD where the authors walks you through the more difficult tasks Covers database design, installation and configuration, creating databases and tables, security, backup and high availability, and more Supplements your preparation for MCTS and MCITP SQL Server 2008 certification with in-depth coverage of the skill sets required for certification, as defined by Microsoft Uses hands-on exercises and real-world scenarios to keep what you're learning grounded in the reality of the workplace Make sure you're not only prepared for certification, but also for your job as a SQL Server 2008 administrator, with this practical reference! Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

MCITP Administrator Apr 28 2020

SQL Server Query Performance Tuning Distilled Feb 07 2021 * A completely revised edition of a book that is highly-regarded in the community (as evidenced by Amazon reviews and other customer feedback). * The only comprehensive, practical guide to performance optimization techniques for SQL Server applications. * Essential reading for any DBA or developer responsible for the eprformance of an exisiting SQL Server system, or the design of a new one.

Exam 98-364 MTA Database Administration Fundamentals Aug 21 2019 Students who are beginning studies in technology need a strong foundation in the basics before moving on to more advanced technology courses and certification programs. The Microsoft Technology Associate (MTA) is a new and innovative certification track designed to provide a pathway for future success in technology courses and careers. The MTA program curriculum helps instructors teach and validate fundamental technology knowledge and provides students with a foundation for their careers as well as the confidence they need to succeed in advanced studies. Through the use of MOAC MTA titles you can help ensure your students future success in and out of the classroom. Database Administration Fundamentals covers introductory knowledge and skills including: relational databases; core database concepts; relational database concepts; security requirements for databases and the data stored in them; database objects -- such as tables and views; graphical tools and T-SQL scripts; database queries; and stored procedures.