

Windows Azure Sql Database Programming Design

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.

SQL Azure represents Microsoft's cloud-based delivery of its enterprise-caliber, SQL Server database management system (formerly under the code name "Oslo"). Pro SQL Azure introduces you to this new platform, showing you how to program and administer it in a variety of cloud computing scenarios. You'll learn to program SQL Azure from Silverlight, ASP.NET, WinForms, and from SQL Reporting Services. You'll also understand how to manage the platform by planning for scalability, troubleshooting performance issues, and implementing strong security. Shows how to use SQL Azure from Silverlight, ASP.NET, and more Covers management, scalability, and troubleshooting Addresses the all-important issue of securing your data

Learn how to combine SQL Server's analytics with Azure's flexibility and hybrid connectivity to achieve industry-leading performance and manageability for your cloud database. Key Features Understand platform availability for SQL Server in Azure Explore the benefits and deployment choices offered by SQL IaaS Get to grips with deploying SQL Server on the Linux development ecosystem Book Description Deploying SQL Server on Azure virtual machines allows you to work on full versions of SQL Server in the cloud without having to maintain on-premises hardware. The book begins by introducing you to the SQL portfolio in Azure and takes you through SQL Server IaaS scenarios, before explaining the factors that you need to consider while

choosing an OS for SQL Server in Azure VMs. As you progress through the book, you'll explore different VM options and deployment choices for IaaS and understand platform availability, migration tools, and best practices in Azure. In later chapters, you'll learn how to configure storage to achieve optimized performance. Finally, you'll get to grips with the concept of Azure Hybrid Benefit and find out how you can use it to maximize the value of your existing on-premises SQL Server. By the end of this book, you'll be proficient in administering SQL Server on Microsoft Azure and leveraging the tools required for its deployment. What you will learn

- Choose an operating system for SQL Server in Azure VMs
- Use the Azure Management Portal to facilitate the deployment process
- Verify connectivity and network latency in cloud
- Configure storage for optimal performance and connectivity
- Explore various disaster recovery options for SQL Server in Azure
- Optimize SQL Server on Linux
- Discover how to back up databases to a URL

Who this book is for SQL Server on Azure VMs is for you if you are a developer, data enthusiast, or anyone who wants to migrate SQL Server databases to Azure virtual machines. Basic familiarity with SQL Server and managed identities for Azure resources will be a plus.

NOTE: This title is also available as a free eBook on the Microsoft Download Center. It is offered for sale in print format as a convenience. Get a head start evaluating SQL Server 2014 - guided by two experts who have worked with the technology from the earliest beta. Based on Community Technology Preview 2 (CTP2) software, this guide introduces new features and capabilities, with practical insights on how SQL Server 2014 can meet the needs of your business. Get the early, high-level overview you need to begin preparing your deployment now. Coverage includes: SQL Server 2014 Editions and engine enhancements Mission-critical performance enhancements Hybrid cloud enhancements Self-service Business Intelligence enhancements in Microsoft Excel Enterprise information management enhancements Big Data solutions

Part of the "Microsoft Azure Essentials" series, this ebook helps SQL Server database users understand Microsoft's offering for SQL Server in Azure. Learn how SQL Server in Azure is similar to SQL Server in an on-premises environment, and how they are different. The author, a content lead for Azure.com, walks you through the steps of getting started with SQL Server in an Azure virtual machine and with Azure SQL Database. Follow the numerous screenshots to create a trial subscription, create SQL Server in an Azure virtual machine, create an Azure SQL Database, migrate an on-premises database to each Azure environment, create users, back up and restore data, and archive data.

Microsoft Azure is a cloud computing platform that offers a wide selection of services that can be utilized without having to source and provision your own hardware. Azure provides users with the swift development of solutions and offers the resources to complete tasks that may not be practicable in an environment that is located on-premises. Azure has features that provide compute, storage, network, and application services which allow users to focus on creating great solutions without having to be concerned about how the physical infrastructure is assembled.

Explore the impressive storage and analytic tools available with the in-cloud and on-premises versions of Microsoft SQL Server 2019. Key Features Gain insights into what's new in SQL Server 2019 Understand use cases and customer scenarios that can be

implemented with SQL Server 2019 Discover new cross-platform tools that simplify management and analysis Book Description Microsoft SQL Server comes equipped with industry-leading features and the best online transaction processing capabilities. If you are looking to work with data processing and management, getting up to speed with Microsoft Server 2019 is key. Introducing SQL Server 2019 takes you through the latest features in SQL Server 2019 and their importance. You will learn to unlock faster querying speeds and understand how to leverage the new and improved security features to build robust data management solutions. Further chapters will assist you with integrating, managing, and analyzing all data, including relational, NoSQL, and unstructured big data using SQL Server 2019. Dedicated sections in the book will also demonstrate how you can use SQL Server 2019 to leverage data processing platforms, such as Apache Hadoop and Spark, and containerization technologies like Docker and Kubernetes to control your data and efficiently monitor it. By the end of this book, you'll be well versed with all the features of Microsoft SQL Server 2019 and understand how to use them confidently to build robust data management solutions. What you will learn Build a custom container image with a Dockerfile Deploy and run the SQL Server 2019 container image Understand how to use SQL server on Linux Migrate existing paginated reports to Power BI Report Server Learn to query Hadoop Distributed File System (HDFS) data using Azure Data Studio Understand the benefits of In-Memory OLTP Who this book is for This book is for database administrators, architects, big data engineers, or anyone who has experience with SQL Server and wants to explore and implement the new features in SQL Server 2019. Basic working knowledge of SQL Server and relational database management system (RDBMS) is required.

A detailed look at a diverse set of Cloud topics, particularly Azure and Office 365 More and more companies are realizing the power and potential of Cloud computing as a viable way to save energy and money. This valuable book offers an in-depth look at a wide range of Cloud topics unlike any other book on the market. Examining how Cloud services allows users to pay as they go for exactly what they use, this guide explains how companies can easily scale their Cloud use up and down to fit their business requirements. After an introduction to Cloud computing, you'll discover how to prepare your environment for the Cloud and learn all about Office 365 and Azure. Examines a diverse range of Cloud topics, with special emphasis placed on how Cloud computing can save businesses energy and money Shows you how to prepare your environment for the Cloud Addresses Office 365, including infrastructure services, SharePoint 2010 online, SharePoint online development, Exchange online development, and Lync online development Discusses working with Azure, including setting it up, leveraging Blob storage, building Azure applications, programming, and debugging Offers advice for deciding when to use Azure and when to use Office 365 and looks at hybrid solutions between Azure and Office 365 Tap into the potential of Azure and Office 365 with this helpful resource.

Leverage the features of Azure SQL database and become an expert in data management Key Features Explore ways to create shards and elastic pools to scale Azure SQL databases Automate common management tasks with PowerShell Implement over 40 practical activities and exercises to reinforce your learning Book 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.

The book addresses newbie developers who don't have any knowledge about cloud computing or Windows Azure. The reader with small C# programming skills can easily understand how cloud applications are developed, maintained, tested and deployed. It not only explains core storage services provided by Windows Azure but also how to use Windows Azure SQL Database for creating databases, tables and running queries for inserting and fetching information stored in tables. For practical implementation the book also explains how to manage session state - an important concept that plays a major role in web applications

Key Topic Coverage

1. Understanding Cloud Computing and its components
2. Manage core storage services - Table and BLOB.
3. Using Windows Azure SQL database
4. Deploying and managing applications

Benefits this book will provide to its audience:

1. Reader will be able to understand the components of Cloud Architecture and their influence in today's technology
2. Reader will be able to develop cloud applications that access Windows storage services
3. Create, Access and Manage Database tables in Windows Azure SQL Database

About the Author B. M. Harwani is founder and owner of Microchip Computer Education (MCE), based in Ajmer, India, which provides computer education in all programming and Web developing platforms. He graduated with a BE in computer engineering from the University of Pune, and has a C Level (Master's Diploma in Computer Technology) from DOEACC, Government of India. Being involved in the teaching field for more than 19 years, he has developed the art of explaining even the

most complicated topics in a straightforward and easily understandable fashion. His latest published books include Foundation Joomla, jQuery Recipes, Core Data iOS Essentials, Introduction to Python Programming and Developing GUI Applications with PyQt, Android Programming Unleashed and The Android Tablet Developer's Cookbook (Developer's Library). To know more, visit Harwani's blog at <http://bmharwani.com/blog>.

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.

This book follows a step-by-step approach with clear transparent instructions, screenshots and code samples. This book is intended for Microsoft .NET developers who want to leverage the power of cloud and build a brand new service from scratch; it assumes a basic understanding of the .NET framework and C#.

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.

Effectively query and modify data using Transact-SQL Master T-SQL fundamentals and write robust code for Microsoft SQL Server and Azure SQL Database. Itzik Ben-Gan explains key T-SQL concepts and helps you apply your knowledge with hands-on exercises. The book first introduces T-SQL's roots and underlying logic. Next, it walks you through core topics such as single-table queries, joins, subqueries, table expressions, and set operators. Then the book covers more-advanced data-query topics such as window functions, pivoting, and grouping sets. The book also explains how to modify data, work with temporal tables, and

handle transactions, and provides an overview of programmable objects. Microsoft Data Platform MVP Itzik Ben-Gan shows you how to: Review core SQL concepts and its mathematical roots Create tables and enforce data integrity Perform effective single-table queries by using the SELECT statement Query multiple tables by using joins, subqueries, table expressions, and set operators Use advanced query techniques such as window functions, pivoting, and grouping sets Insert, update, delete, and merge data Use transactions in a concurrent environment Get started with programmable objects—from variables and batches to user-defined functions, stored procedures, triggers, and dynamic SQL

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.

Get the focused, pragmatic guidance you need to build professional cloud applications using Windows Azure Storage. This is one of the few books centered around Storage capabilities, and the author provides essential, expert coverage of the four key services - BLOB, tables, queues, and drives. Developers will gain hands-on insights, including detailed sections on business use cases and guidance for choosing the right storage option for the job. Provides architectural and programming guidance to professional developers and architects proficient with Microsoft Visual Studio, C#, and LINQ Illuminates when and how to use BLOB storage, table storage, queues, and Windows Azure Drive to build, host, and scale applications in Microsoft-managed datacenters Presents business-case context for choosing the right service for your scenario, e.g. readers will compare relational tables to Windows Azure tables to understand benefits and tradeoffs

Provides information on developing cloud-based applications on the Windows Azure Platform.

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Troubleshoot query performance issues, identify anti-patterns in code, and write efficient T-SQL queries Key Features Discover T-SQL functionalities and services that help you interact with relational databases Understand the roles, tasks and responsibilities of a T-SQL developer Explore solutions for carrying out database querying tasks, database administration, and troubleshooting Book Description Transact-SQL (T-SQL) is Microsoft's proprietary extension to the SQL language that is used with Microsoft SQL Server and Azure SQL Database. This book will be a useful guide to learning the art of writing efficient T-SQL code in modern SQL Server versions, as well as the Azure SQL Database. The book will get you started with query processing fundamentals to help you write powerful, performant T-SQL queries. You will then focus on query execution plans and learn how to leverage them for troubleshooting. In the later chapters, you will learn how to identify various T-SQL patterns and anti-patterns. This will help you analyze execution plans to gain insights into current performance, and determine whether or not a query is scalable. You will also learn to build diagnostic queries using dynamic management views (DMVs) and dynamic management functions (DMFs) to address various challenges in T-SQL execution. Next, you will study how to leverage the built-in tools of SQL Server to shorten the time taken to address query performance and scalability issues. In the concluding chapters, the book will guide you through implementing various features, such as Extended Events, Query Store, and Query Tuning Assistant using hands-on examples. By the end of this book, you will have the skills to determine query performance bottlenecks, avoid pitfalls, and discover the anti-patterns in use. Foreword by Conor Cunningham, Partner Architect – SQL Server and Azure SQL – Microsoft What you will learn Use Query Store to understand and easily change query performance Recognize and eliminate bottlenecks that lead to slow performance Deploy quick fixes and long-term solutions to improve query performance Implement best practices to minimize performance risk using T-SQL Achieve optimal performance by ensuring careful query and index design Use the latest performance optimization features in SQL Server 2017 and SQL Server 2019 Protect query performance during upgrades to newer versions of SQL Server Who this book is for This book is for database administrators, database developers, data analysts, data scientists, and T-SQL practitioners who want to get started with writing T-SQL code and troubleshooting query performance issues, through the help of practical examples. Previous knowledge of T-SQL querying is not required to get started on this book.

Microsoft Azure SQL Database Step by Step Pearson Education

Learn how to create an Access web app, and move your database into the cloud. This practical book shows you how to design an Access web app for Microsoft Office 365, and convert existing Access desktop databases to a web app as well. You'll quickly learn your way around the web app design environment, including how to capitalize on its strengths and avoid the pitfalls. You don't need any special web skills to get started. Discover how to: Make your desktop database compatible with web app table structures Create tables, views, and queries Customize the table selector and work with popup views to provide a navigation interface Implement business rules using the Macro Programming Tools Develop using Office 365 and SharePoint 2013 Use SQL Azure to investigate how your web app is structured Design, test, and troubleshoot Data Macros Understand how security links between a web app and Office 365 Deploy a public facing web app on your Office 365 public website

We're thrilled to share another free ebook with you: Introducing Microsoft Azure HDInsight, by Avkash Chauhan, Valentine Fontama, Michele Hart, Wee Hyong Tok, and Buck Woody. Here are the download links: Download the PDF (6.37 MB; 130 pages) from <http://aka.ms/IntroHDInsight/PDF> Download the EPUB (8.46 MB) from <http://aka.ms/IntroHDInsight/EPUB> Download the MOBI (12.8 MB) from <http://aka.ms/IntroHDInsight/MOBI> Download the code samples (6.83 KB) from <http://aka.ms/IntroHDInsight/CompContent> Get a head

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start evaluating Windows Azure - with technical insights from a Microsoft MVP Mitch Tulloch. This guide introduces the latest features and capabilities, with scenario-based advice on how the platform can meet the needs of your business. Get the high-level overview you need to begin preparing your deployment now. Topics include: Understanding Windows Azure Windows Azure Compute Services Windows Azure Network Services Windows Azure Data Services Windows Azure App Services Getting Started with Windows Azure Hit the ground running with this book to quickly learn the fundamentals of HTML form processing, user authentication, and database CRUD (Create, Read, Update, and Delete) operations using the ASP.NET Core family of technologies. You will utilize cutting-edge and popular technology options from both the server side and client side to help you achieve your web application goals as quickly as possible. Developers who want to learn ASP.NET Core and complementary technologies are often overwhelmed by the large number of options involved in building modern web applications. This book introduces you to the most popular options so that you can confidently begin working on projects in no time. You will learn by example, building a sample application that demonstrates how the same application can be built using different options. This experiential approach will give you the basic skills and knowledge to understand how the options work together so that you can make an informed decision about the available choices, their trade-offs, and code level comparison. After reading this book, you will be able to choose your selected learning path. What You Will Learn Develop data entry forms in ASP.NET Core, complete with validations and processing Perform CRUD operations using server-side options: ASP.NET Core MVC, Razor Pages, Web APIs, and Blazor Perform CRUD operations using client-side options: jQuery and Angular Secure web applications using ASP.NET Core Identity, cookie authentication, and JWT authentication Use RDBMS and NoSQL data stores: SQL Server, Azure SQL Database, Azure Cosmos DB, and MongoDB for CRUD operations Deploy ASP.NET Core web applications to IIS and Azure App Service Who This Book Is For Developers who possess a basic understanding of ASP.NET and how web applications work. Some experience with Visual Studio 2017 or higher, C#, and JavaScript is helpful.

Microsoft Windows Azure SQL Database opens new horizons in RDBMS applications. Cloud computing is the future. Azure SQL Database represents the future today. Cloud relational database design and cloud SQL (Structured Query Language) programming teach-by-practical-diagrams-&-examples book for developers, programmers, systems analysts and project managers who are new to relational database and client/server technologies. The Azure SQL Database textbook also for database developers, database designers and database administrators (DBA), who know some SQL programming and database design, and who wish to refresh & expand their cloud RDBMS design & development technology horizons. Familiarity with at least one computer programming language, Windows file system & Excel is assumed. Since the book is career advancement oriented, it has a great number of 3NF database design examples with metadata explanations along with practical SQL queries (over 1,400 SELECT queries) and T-SQL scripts, plenty to learn indeed. Great emphasis is placed on explaining the FOREIGN KEY - PRIMARY KEY constraints among tables, the connections which make the collection of individual tables a database. The database diagrams and queries are based on historic and current SQL Server sample databases: pubs (PRIMARY KEYS 9, FOREIGN KEYS 10) , Northwind (PRIMARY KEYS 13, FOREIGN KEYS 13) and the latest AdventureWorks series. Among them: AdventureWorks, AdventureWorks2012 (PRIMARY KEYS 71, FOREIGN KEYS 90), & AdventureWorksDW2008 (PRIMARY KEYS 27, FOREIGN KEYS 44). The last one is a data warehouse database which is the basis for multi-dimensional OLAP cubes. Sample databases installation instructions are included. The book teaches through vivid database diagrams and T-SQL queries how to think in terms of sets at a very high level, focusing on set-based operations instead of loops like in procedural programming languages. The best way to master Azure T-

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SQL programming is to type the query in your own SQL Server Management Studio Query Editor, test it, examine it, change it and study it. Wouldn't it be easier just to copy & paste it? It would, but the learning value would diminish rapidly. You need to feel relational database design and the SQL language in your DNA. SQL queries must "pour" out from your fingers into the keyboard. Why is knowing SQL queries by heart so important? After all everything can be found on the web so why not just copy & paste? Well not exactly. If you want to be an database designer & development expert, it has to be in your head not on the web. Second, when your supervisor is looking over your shoulder, "Joe, can you tell me what is the total revenue for March using the cloud database?", you have to be able to type the query without documentation or SQL forum search and provide the results to your superior promptly. The book was designed to be readable in any environment, even on the beach laptop around or no laptop in sight at all. All queries are followed by results row count and /or full/partial results listing in tabular (grid) format. Screenshots are used when dealing with GUI tools such as SQL Server Management Studio. Mastery of the database design & SQL programming book likely to be sufficient for career advancement as a cloud database designer and database developer.

Your hands-on guide to Azure SQL Database fundamentals Expand your expertise—and teach yourself the fundamentals of Windows 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 Windows Azure SQL Database

Your essential guide to key programming features in Microsoft SQL Server 2012 Take your database programming skills to a new level—and build customized applications using the developer tools introduced with SQL Server 2012. This hands-on reference shows you how to design, test, and deploy SQL Server databases through tutorials, practical examples, and code samples. If you're an experienced SQL Server developer, this book is a must-read for learning how to design and build effective SQL Server 2012 applications. Discover how to: Build and deploy databases using the SQL Server Data Tools IDE Query and manipulate complex data with powerful Transact-SQL enhancements Integrate non-relational features, including native file streaming and geospatial data types Consume data with Microsoft ADO.NET, LINQ, and Entity Framework Deliver data using Windows Communication Foundation (WCF) Data Services and WCF RIA Services Move your database to the cloud with Windows Azure SQL Database Develop Windows Phone cloud applications using SQL Data Sync Use SQL Server BI components, including xVelocity in-memory technologies

This book helps you to get started how to write Go program to access SQL Server and Microsoft Azure SQL Database. The following is highlight topic in this book: * Setup Development Environment * Hello World - Go and SQL Server * CRUD Operations * Working with Image and Blob Data * Transaction * Stored Procedures * Microsoft Azure SQL Database

With constantly expanding options such as Azure Data Lake Server (ADLS) and Azure SQL Data Warehouse (ADW), how can developers learn the process and components required to successfully move this data? Quick Start Guide to Azure Data Factory, Azure Data Lake Server, and Azure Data Warehouse teaches you the basics of moving data between Azure SQL solutions using

Azure Data Factory. Discover how to build and deploy each of the components needed to integrate data in the cloud with local SQL databases. Mark Beckner's step by step instructions on how to build each component, how to test processes and debug, and how to track and audit the movement of data, will help you to build your own solutions instantly and efficiently. This book includes information on configuration, development, and administration of a fully functional solution and outlines all of the components required for moving data from a local SQL instance through to a fully functional data warehouse with facts and dimensions. This ebook walks you through a patterns-based approach to building real-world cloud solutions. The patterns apply to the development process as well as to architecture and coding practices. The content is based on a presentation developed by Scott Guthrie and delivered by him at the Norwegian Developers Conference (NDC) in June of 2013 (part 1, part 2), and at Microsoft Tech Ed Australia in September 2013 (part 1, part 2). Many others updated and augmented the content while transitioning it from video to written form. Who should read this book Developers who are curious about developing for the cloud, are considering a move to the cloud, or are new to cloud development will find here a concise overview of the most important concepts and practices they need to know. The concepts are illustrated with concrete examples, and each chapter includes links to other resources that provide more in-depth information. The examples and the links to additional resources are for Microsoft frameworks and services, but the principles illustrated apply to other web development frameworks and cloud environments as well. Developers who are already developing for the cloud may find ideas here that will help make them more successful. Each chapter in the series can be read independently, so you can pick and choose topics that you're interested in. Anyone who watched Scott Guthrie's "Building Real World Cloud Apps with Windows Azure" presentation and wants more details and updated information will find that here. Assumptions This ebook expects that you have experience developing web applications by using Visual Studio and ASP.NET. Familiarity with C# would be helpful in places.

This book provides alternative approach to build PHP application with Windows platform and database SQL Server. It describes how to work with PHP and SQL Server and illustrates their use with code examples. The last chapter author explains how PHP to access Windows Azure SQL Database. ****TOC****

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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

Here is the expert-level, insider guidance you need on using Azure SQL Database as your back-end data store. This book highlights best practices in everything ranging from full-stack projects to mobile applications to critical, back-end APIs. The book provides instruction on accessing your data from any language and platform. And you learn how to push processing-intensive work into the database engine to be near the data and avoid undue networking traffic. Azure SQL is explained from a developer's point of view, helping you master its feature set and create applications that perform well and delight users. Core to the book is showing you how Azure SQL Database provides relational and post-relational support so that any workload can be managed with easy accessibility from any platform and any language. You will learn about features ranging from lock-free tables to columnstore indexes, and about support for data formats ranging from JSON and key-values to the nodes and edges in the graph database paradigm. Reading this book prepares you to deal with almost all data management challenges, allowing you to create lean and specialized solutions having the elasticity and scalability that are needed in the modern world.

What You Will Learn

- Master Azure SQL Database in your development projects from design to the CI/CD pipeline
- Access your data from any programming language and platform
- Combine key-value, JSON, and relational data in the same database
- Push data-intensive compute work into the database for improved efficiency
- Delight your customers by detecting and improving poorly performing queries
- Enhance performance through features such as columnstore indexes and lock-free tables
- Build confidence in your mastery of Azure SQL Database's feature set

Who This Book Is For

Developers of applications and APIs that benefit from cloud database support, developers who wish to master their tools (including Azure SQL Database, and those who want their applications to be known for speedy performance and the elegance of their code

A guide to the practical issues and applications in database programming with updated Visual Basic.NET SQL Server Database Programming with Visual Basic.NET offers a guide to the fundamental knowledge and practical techniques for the design and

creation of professional database programs that can be used for real-world commercial and industrial applications. The author—a noted expert on the topic—uses the most current version of Visual Basic.NET, Visual Basic.NET 2017 with Visual Studio.NET 2017. In addition, he introduces the updated SQL Server database and Microsoft SQL Server 2017 Express. All sample program projects can be run in the most updated version, Visual Basic.NET 2019 with Visual Studio.NET 2019. Written in an accessible, down-to-earth style, the author explains how to build a sample database using the SQL Server management system and Microsoft SQL Server Management Studio 2018. The latest version of ASP.NET, ASP.NET 4.7, is also discussed to provide the most up-to-date Web database programming technologies. This important book:

- Offers illustrative practical examples and detailed descriptions to aid in comprehension of the material presented
- Includes both fundamental and advanced database programming techniques
- Integrates images into associated database tables using a DevExpress UI tools - WindowsUI

Written for graduate and senior undergraduate students studying database implementations and programming courses, *SQL Server Database Programming with Visual Basic.NET* shows how to develop professional and practical database programs in Visual Basic.NET 2017/Visual Basic.NET 2019.

Learn the nuts and bolts of cloud computing with Windows Azure, Microsoft's new Internet services platform. Written by a key member of the product development team, this book shows you how to build, deploy, host, and manage applications using Windows Azure's programming model and essential storage services. Chapters in *Programming Windows Azure* are organized to reflect the platform's buffet of services. The book's first half focuses on how to write and host application code on Windows Azure, while the second half explains all of the options you have for storing and accessing data on the platform with high scalability and reliability. Lots of code samples and screenshots are available to help you along the way. Learn how to build applications using the Windows Azure toolset Discover how Windows Azure works under the hood, and learn the how and the why behind several features Choose to write application code in .NET or other languages such as C/C++, PHP, or Ruby Understand the various options for managing your service Get up to speed on Azure's storage services, including blobs, queues, and tables Build a secure backup system, and learn about cloud application security, cryptography, and performance

Build new Access cloud web apps and migrate desktop databases to the cloud This is your complete, practical guide to creating Microsoft Access web apps and migrating existing databases to the cloud. Access MVP Andrew Couch guides you through the entire web app life cycle, from design through deployment and upgrades. After introducing Microsoft Office 365 and the web app development environment, he reviews key issues associated with moving data into a web app or creating cloud apps with new data. Next, he drills down into app construction, from table design to integration. You'll learn how to extend Access with Microsoft Azure SQL, PowerPivot, Visual Studio 2013, SQL Server Reporting Services (SSRS), and Apps for Office, and master important new enhancements in Office 365 SP1. Learn best practices

and techniques to: Capitalize on key Office 365 features in your Access web apps Design and integrate all the features of Access web apps Make your desktop databases compatible with web app table structures Implement and test business rules by using the Macro Programming Tools Understand how your app design translates to objects in the cloud-based Azure SQL Database Use Microsoft SQL Server Management Studio (SSMS) to connect with and manage web apps Improve reporting with PowerPivot, Visual Studio 2013, and SSRS Extend Access web apps with Apps for Office features Capitalize on Office 365 SP1 improvements in change deployment, intellectual property protection, and integration Get all code samples, including complete apps, at: <http://aka.ms/AccessApps/files> About This Book For experienced Access developers who want a deep understanding of web app design and implementation For new web app developers who want to develop Access web apps with Office 365

Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. The first ebook in the series, Microsoft Azure Essentials: Fundamentals of Azure, introduces developers and IT professionals to the wide range of capabilities in Azure. The authors - both Microsoft MVPs in Azure - present both conceptual and how-to content for key areas, including: Azure Websites and Azure Cloud Services Azure Virtual Machines Azure Storage Azure Virtual Networks Databases Azure Active Directory Management tools Business scenarios Watch Microsoft Press's blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the "Microsoft Azure Essentials" series.

In the race to compete in today's fast-moving markets, large enterprises are busy adopting new technologies for creating new products, processes, and business models. But one obstacle on the road to digital transformation is placing too much emphasis on technology, and not enough on the types of processes technology enables. What if different lines of business could build their own services and applications—and decision-making was distributed rather than centralized? This report explores the concept of a digital business platform as a way of empowering individual business sectors to act on data in real time. Much innovation in a digital enterprise will increasingly happen at the edge, whether it involves business users (from marketers to data scientists) or IoT devices. To facilitate the process, your core IT team can provide these sectors with the digital tools they need to innovate quickly. This report explores: Key cultural and organizational changes for developing business capabilities through cross-functional product teams A platform for integrating applications, data sources, business partners, clients, mobile apps, social networks, and IoT devices Creating internal API programs for building innovative edge services in low-code or no-code environments Tools including Integration Platform as a Service, Application Platform as a Service, and Integration Software as a Service The challenge of integrating microservices and serverless architectures Event-driven architectures for processing and reacting to events in

real time You'll also learn about a complete pervasive integration solution as a core component of a digital business platform to serve every audience in your organization.

Market_Desc: • Microsoft database developers About The Book: Beginning SQL Server 2008 Programming provides a comprehensive introduction to SQL Server. The book begins with a quick overview of database design basics and the SQL query language, for those programmers who may be building their first Microsoft database application. It also provides an overview of SQL Server itself. The author then proceeds to show how to implement these fundamental concepts with Microsoft SQL Server 2008.

Master Windows 8.1/Windows Runtime Programming Through 80 Expert Projects This is the most complete, hands-on, solutions-focused guide to programming modern Windows applications with the Windows Runtime. Leading Windows development consultants Jeremy Likness and John Garland present easy-to-adapt C# and XAML example code for more than 80 projects. Their real-world application examples help you apply Windows 8.1's best improvements, including large tiles, the new search control, flyouts, command bars, native WinRT networking, and new deployment and sideloading options. Drawing on their pioneering experience, they illuminate key areas of the Windows Runtime API, offering uniquely detailed coverage of encryption, cloud connectivity, devices, printers, and media integration. You'll find cutting-edge tips and tricks available in no other book. This is an indispensable resource for all intermediate-to-advanced Windows developers, and for any architect building desktop, tablet, or mobile solutions with Microsoft technologies. Its focus on both C# and XAML will make it valuable to millions of Windows developers already familiar with Silverlight, WPF, and/or .NET. Coverage includes

- Creating robust app interfaces with the newest XAML controls, including flyouts and command bars
- Saving data in a persistent "roaming zone" for syncing across Windows 8.1 devices
- Using Visual State Manager (VSM) to build apps that adapt to various device resolutions and orientations
- Integrating virtually any form of data into your apps
- Connecting with web services, RSS, Atom feeds, and social networks
- Securing apps via authentication, encrypting, signing, and single sign-on with Microsoft Account, Facebook, Google, and more
- Leveraging Windows 8.1 media enhancements that improve battery life and app performance
- Networking more effectively with Windows 8.1's revamped HTTP implementation and new location APIs
- Using Tiles and Toasts to keep apps alive and connected, even when they aren't running
- Enabling users to send content between devices via NFC tap and send
- Ensuring accessibility and globalizing your apps
- Efficiently debugging, optimizing, packaging, and deploying your apps
- Building sideloadable apps that don't have to be published in Windows Store

"This book doesn't just focus on singular concepts, it also provides end-to-end perspective on building an app in WinRT. It is one of those essential tools for Windows developers that will help you complete your software goals sooner than without it!" —Tim Heuer, Principal

Program Manager Lead, XAML Platform, Microsoft Corporation

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

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