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SQL Server Internals

Fill the gap between planning and doing with SSIS 2014 The 2014 release of Microsoft's SQL Server Integration Services provides enhancements for managing extraction, transformation, and load operations, plus expanded in-memory capabilities, improved disaster recovery, increased scalability, and much more. The increased functionality will streamline your ETL processes and smooth out your workflow, but the catch is that your workflow must change. New tools come with new best practices, and Professional Microsoft SQL Server 2014 Integration Services will keep you ahead of the curve. SQL Server MVP Brian Knight is the most respected name in the business, and your ultimate guide to navigating the changes to use Microsoft SQL Server Integration Services 2014 to your utmost advantage. Implement new best practices for effective use of SSIS Work through tutorials for hands-on learning of complex techniques Read case studies that illustrate the more advanced concepts Learn directly from the foremost authority on SSIS SQL Server Integration Services is a complex tool, but it's the lifeblood of your work. You need to know it inside out, and you must understand the full potential of its capabilities in order to use it effectively. You need to make sure the right architecture is in place. Professional Microsoft SQL Server 2014 Integration Services is your roadmap to understanding SSIS on a fundamental level, and setting yourself up for success. "The SQL 2014 Developer P2: VS 2012 and Data Types course is the second course in the three course series on SQL Server 2014. This series of courses is a comprehensive series covering all the intermediate to advanced level topics of SQL Server 2014. The

topics covered in part 2 of this series are related to the Visual Studio 2012 and focuses on the data types available in SQL Server 2014. The course covers the related sub-topics in a great detail and enables the students to implement the gained knowledge in their everyday tasks. The SQL 2014 Developer P2: VS 2012 and Data Types course covers the fundamental topics necessary to build, manage, and maintain databases in SQL Server 2014. The course enables the students to efficiently perform the management tasks on their databases and learn the new and advanced features available in SQL Server 2014. The course series comprises of three courses which combine to give a complete and comprehensive knowledge base to the students working with SQL Server 2014."--Resource description page. Pro SQL Server Internals explains how different SQL Server components work "under the hood" and how they communicate with each other. This is the practical book with a large number of examples that will show you how various design and implementation decisions affect the behavior and performance of your systems. Pro SQL Server Internals covers a multiple SQL Server versions starting with SQL Server 2005 all the way up to the recently released SQL Server 2014. You'll learn about new SQL Server 2014 features including the new Cardinality Estimator, In-Memory OLTP Engine (codename Hekaton), and Clustered Columnstore Indexes. With Pro SQL Server Internals, you have a solid roadmap for understanding the depth and power of the SQL Server database backend, regardless of the version and edition of SQL Server you use. Pro SQL Server Internals does the following: Explains how to design efficient database schema, indexing, and transaction strategies. Shows how various database objects and technologies are implemented internally and when they should or should not be used. Demonstrates how SQL Server executes queries and works with data and transaction logs. This book is an easy-to-follow, comprehensive guide that is full of hands-on examples, which you can follow to successfully design, build, and deploy mission-critical database applications with SQL Server 2014. If you are a database developer, architect, or administrator who wants to learn how to design, implement, and deliver a successful database solution with SQL Server

2014, then this book is for you. Existing users of Microsoft SQL Server will also benefit from this book as they will learn what's new in the latest version. The industry's most complete, useful, and up-to-date guide to SQL Server 2014. You'll find start-to-finish coverage of SQL Server's core database server and management capabilities: all the real-world information, tips, guidelines, and examples you'll need to install, monitor, maintain, and optimize the most complex database environments. The provided examples and sample code provide plenty of hands-on opportunities to learn more about SQL Server and create your own viable solutions. Four leading SQL Server experts present deep practical insights for administering SQL Server, analyzing and optimizing queries, implementing data warehouses, ensuring high availability, tuning performance, and much more. You will benefit from their behind-the-scenes look into SQL Server, showing what goes on behind the various wizards and GUI-based tools. You'll learn how to use the underlying SQL commands to fully unlock the power and capabilities of SQL Server. Writing for all intermediate-to-advanced-level SQL Server professionals, the authors draw on immense production experience with SQL Server. Throughout, they focus on successfully applying SQL Server 2014's most powerful capabilities and its newest tools and features. Detailed information on how to... Understand SQL Server 2014's new features and each edition's capabilities and licensing Install, upgrade to, and configure SQL Server 2014 for better performance and easier management Streamline and automate key administration tasks with Smart Admin Leverage powerful new backup/restore options: flexible backup to URL, Managed Backup to Windows Azure, and encrypted backups Strengthen security with new features for enforcing "least privilege" Improve performance with updateable columnstore indexes, Delayed Durability, and other enhancements Execute queries and business logic more efficiently with memoryoptimized tables, buffer pool extension, and natively-compiled stored procedures Control workloads and Disk I/O with the Resource Governor Deploy AlwaysOn Availability Groups and Failover Cluster Instances to achieve enterprise-class availability and disaster recovery Apply new Business Intelligence

improvements in Master Data Services, data quality, and Parallel Data Warehouse Optimize Microsoft SQL Server 2014 queries and applications Microsoft SQL Server 2014 Query Tuning & Optimization is filled with ready-to-use techniques for creating high-performance queries and applications. The book describes the inner workings of the query processor so you can write better queries and provide the query processor with the quality information it needs to produce efficient execution plans. You'll also get tips for troubleshooting underperforming queries. In-Memory OLTP (Hekaton), a key new feature of SQL Server 2014, is fully covered in this practical guide. Understand how the query optimizer works Troubleshoot queries using extended events, SQL trace, dynamic management views (DMVs), the data collector, and other tools Work with query operators for data access, joins, aggregations, parallelism, and updates Speed up queries and dramatically improve application performance by creating the right indexes Understand statistics and how to detect and fix cardinality estimation errors Maximize OLTP query performance using In-Memory OLTP (Hekaton) features, including memory-optimized tables and natively compiled stored procedures Monitor and promote plan caching and reuse to improve application performance Improve the performance of data warehouse queries using columnstore indexes Handle query processor limitations with hints and other methods 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. Microsoft SQL Server está disponible en el mercado desde hace más de una década. La nueva versión 2014, contiene un conjunto completo de tecnologías y herramientas que le ayudarán a obtener el máximo rendimiento a la información que procese. Entre ellas destaca su motor de base de datos relacional, que es el más innovador, potente y demandado que existe hoy en día en el mercado. Cada capítulo del libro está estructurado en dos partes, una teórica y otra práctica. La parte teórica explica los fundamentos de Microsoft SQL Server 2014 que se tratan en cada tema. Los ejercicios prácticos están desarrollados paso a paso, de principio a fin, e incluyen imágenes que facilitan su comprensión y seguimiento. Estos, además de ayudarle a comprender la teoría, le permitirán obtener práctica y experiencia en el manejo de Microsoft SQL Server 2014. Cuando el lector termine el libro, además de tener una visión clara de lo que es un servidor de bases de datos de Microsoft SQL Server 2014, habrá configurado y probado muchas de sus características. Temas tratados en el libro: Instalación gráfica y desatendida Diseño y creación de bases de datos Recuperación ante desastres Mantenimiento proactivo de una base de datos Uso del Agente SQL y del correo de bases de datos AlwaysOn y otras soluciones de '\\Alta Disponibilidad\\' Business Intelligence (BI) has emerged as a field which seeks to support managers in decision-making. It encompasses the techniques, methods and tools for conducting analytically-based IT

solutions, which are referred to as OLAP (OnLine Analytical Processing). Within this field, SQL has a role as a leader and is continuously evolving to cover both transactional and analytical data management. This book discusses the functions provided by Microsoft® SQL Server 2014/2016 in terms of business intelligence. The analytic functions are considered as an enrichment of the SQL language. They combine a series of practical functions to answer complex analysis requests with all the simplicity, elegance and acquired performance of the SQL language. Drawing on the wide experience of the author in teaching and research, as well as insights from contacts in the industry, this book focuses on the issues and difficulties faced by academics (students and teachers) and professionals engaged in data analysis with the SQL Server 2014/2016 database management system. Expert SQL Server In-Memory OLTP is a deep dive into one of the most significant features of SQL Server 2014 – support for In-Memory Online Transaction Processing. The book describes the architecture and internals of the In-Memory OLTP Engine and explains how to develop, deploy, and maintain systems using it. With it you can dramatically increase transactional throughput to handle thousands of transactions per second supporting millions of customers. Dmitri Korotkevitch is the five-star author of Pro SQL Server Internals, and now brings his same combination of clear thinking and deep expertise to the question of how to recognize the opportunities and benefit from Microsoft's In-Memory OLTP feature set in SQL Server 2014. Learn the architecture and the internals in order to recognize when In-Memory OLTP can make a difference. Learn useful scenarios for thoughtfully incorporating in-memory support into existing applications. Recognize opportunities for In-Memory OLTP in new development. Don't be without Dmitri Korotkevitch and the deep expertise he imparts in Expert SQL Server In-Memory OLTP as you move forward in using SQL Server's new and important In-Memory OLTP feature set. Covers In-Memory OLTP internals and architecture, including data storage, indexing, multi-version concurrency control, transaction logging, and recovery Illustrates In-Memory OLTP programmability and the process of native compilation Guides in using In-Memory OLTP in new development

and existing systems. This is an in-depth informational book about SQL Server, placing emphasis on the more complex aspects of the product, including using the new tools and features, administering SQL Server, analyzing and optimizing queries, implementing data warehouses, ensuring high availability, and tuning SQL Server performance. Each chapter begins with a brief summary of the major changes or new features or capabilities of SQL Server related to that topic, then provides a behind-the-scenes look into SQL Server, showing what goes on behind the various wizards and GUI-based tools. Students will learn what the underlying SQL commands are, to allow them to fully unlock the power and capabilities of SQL Server. SQL Server 2005 is the largest leap forward for SQL Server since its inception. With this update comes new features that will challenge even the most experienced SQL Server DBAs. Written by a team of some of the best SQL Server experts in the industry, this comprehensive tutorial shows you how to navigate the vastly changed landscape of the SQL Server administration. Drawing on their own first-hand experiences to offer you best practices, unique tips and tricks, and useful workarounds, the authors help you handle even the most difficult SQL Server 2005 administration issues, including blocking and locking. You'll learn how to fine-tune queries you've already written, automate redundant monitoring and maintenance tasks, and use hidden tools so that you can quickly get over the learning curve of how to configure and administer SQL Server 2005. What you will learn from this book How to use some of the more advanced concepts of installation Techniques for properly administering development features such as SQL CLR Ways to secure your SQL Server from common threats How to choose the right hardware configuration Best practices for backing up and recovering your database Step-by-step guidelines for clustering your SQL Server Who this book is for This book is for experienced developers and database administrators who plan to administer or are already administering an SQL Server 2005 system and its business intelligence features. Wrox Professional guides are planned and written by working technologists to meet the real-world needs of programmers, developers, and IT professionals. Focused and relevant, they address the issues

technology professionals face every day. They provide examples, practical solutions, and expert education in new technologies, all designed to help programmers do a better job. Written in an easy-to-follow, example-driven format, there are plenty of stepbystep instructions to help get you started! The book has a friendly approach, with the opportunity to learn by experimenting. If you are a BI and Data Warehouse developer new to Microsoft Business Intelligence, and looking to get a good understanding of the different components of Microsoft SQL Server for Business Intelligence, this book is for you. It's assumed that you will have some experience in databases systems and T-SQL. This book is will give you a good upshot view of each component and scenarios featuring the use of that component in Data Warehousing and Business Intelligence systems. Fill the gap between planning and doing with SSIS 2014 The 2014 release of Microsoft's SQL Server Integration Services provides enhancements for managing extraction, transformation, and load operations, plus expanded in-memory capabilities, improved disaster recovery, increased scalability, and much more. The increased functionality will streamline your ETL processes and smooth out your workflow, but the catch is that your workflow must change. New tools come with new best practices, and Professional Microsoft SQL Server 2014 Integration Services will keep you ahead of the curve. SQL Server MVP Brian Knight is the most respected name in the business, and your ultimate guide to navigating the changes to use Microsoft SQL Server Integration Services 2014 to your utmost advantage. Implement new best practices for effective use of SSIS Work through tutorials for hands-on learning of complex techniques Read case studies that illustrate the more advanced concepts Learn directly from the foremost authority on SSIS SQL Server Integration Services is a complex tool, but it's the lifeblood of your work. You need to know it inside out, and you must understand the full potential of its capabilities in order to use it effectively. You need to make sure the right architecture is in place. Professional Microsoft SQL Server 2014 Integration Services is your roadmap to understanding SSIS on a fundamental level, and setting yourself up for success. Live the American

dream! Earn from \$100,000 to \$200,000 as a database developer. Learn Microsoft SQL Server 2014 Programming! Beginning yet practical SQL (Structured Query Language) programming teach-by-practical-diagrams-&-examples illustrated book for database developers, programmers, systems analysts and project managers who are new to relational database and client/server technologies. 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 RDBMS 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 practical SQL queries (over 1,100 SELECT queries) and T-SQL scripts, plenty to learn indeed. The 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, AdventureWorks2008, AdventureWorks2012 (PRIMARY KEYS 71, FOREIGN KEYS 90), & AdventureWorksDW2012 (PRIMARY KEYS 27, FOREIGN KEYS 44). The last one is a data warehouse database. The book teaches through vivid 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 T-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 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 development expert, it has to be in your head not on the web. Second, when your supervisor is looking over your shoulder, "Charlie, can you tell me what is the total revenue for March?", 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. SQL Server 2014 installation, new programming functions, data export and data import presented step by step. Mastery of SQL programming book likely to be sufficient for career advancement as a database developer. SQL Server 2014 programming builds on achievements of decades in advanced relational database technology. Among the new SQL Server 2014 features is prominent: in-memory OLTP tables. Disk was always the slowest part of the computer system. Since memory is abundant, it is logical to place tables into memory to gain in performance. Programming SQL Server 2014 is fun due to the host of marvelous tools available for the developer in SQL Server Management Studio and Visual Studio. Graphical query designer, for example, helps the developer to develop the JOIN structure of a complex query. SQL Server 2014 provides a highly productive environment for database software development. Live Life Smart, Active, Healthy & Happy! Your text simplified as the essential facts to prepare you for your exams. Over 2,000 highly probable test items. SQL Server T-SQL Recipes is an example-based guide to the Transact-SQL language that is at the core of SQL Server. This edition has been lightly updated for SQL Server 2014 and provides ready-to-implement solutions to common programming and database administration tasks. Learn to create databases, create in-memory tables and stored procedures, insert and update data, generate reports, secure your data, and more. Tasks and their solutions are broken down into a problem/solution format that is quick and easy to read so that you can get the job done fast when the pressure is on. Solutions in this book are divided into chapters by problem domain. Each chapter is a collection of solutions around a single facet of the language such as writing queries, managing indexes, error handling, and query performance. Each solution is presented code-first, giving you a working code example to copy from and implement immediately in your own

environment. Following each example is an in-depth description of how and why the given solution works. Tradeoffs and alternative approaches are also discussed. Focused on solutions: Look up what you need to do. Learn how to do it. Do it. Current: Lightly updated for SQL Server 2014 Comprehensive: Covers all common T-SQL problem domains Microsoft SQL Server 2014 is the next generation of Microsoft's information platform, with new features that deliver faster performance, expand capabilities in the cloud, and provide powerful business insights. In this book, we explain how SQL Server 2014 incorporates in-memory technology to boost performance in online transactional processing (OLTP) and data-warehouse solutions. We also describe how it eases the transition from on-premises solutions to the cloud with added support for hybrid environments. SQL Server 2014 continues to include components that support analysis, although no major new features for business intelligence were included in this release. However, several advances of note have been made in related technologies such as Microsoft Excel 2013/16, Power BI for Office 365, HDInsight, and PolyBase, and we describe these advances in this book as well. Este libro está dirigido a todas aquellas personas que deseen administrar una base de datos transaccional (administrador de base de datos, desarrollador, etc...). Presenta los diferentes elementos necesarios para esta administración, así como el conjunto de operaciones que el administrador debe realizar, partiendo de la instalación y terminando por las operaciones de copia de seguridad y restauración, pasando por la gestión del espacio en disco, la gestión de usuarios y la gestión de la replicación. Se presentan las diferentes herramientas que permiten utilizar el servidor de una manera más óptima, como por ejemplo la administración por reglas, la integración con PowerShell, la compresión y el cifrado de datos. Las diferentes operaciones se realizan desde SQL Server Management Studio y en Transact SQL. Desde el sitio web de Ediciones Eni, en la dirección www.ediciones-eni.com, puede descargar los elementos adicionales necesarios. Los capítulos del libro: Prólogo - Presentación - Instalación y configuración - Gestión de la base de datos - Gestión de la seguridad del acceso - Tareas planificadas - Transferencia de datos - Service Broker -

Replicación - Copia de seguridad - Restauración - Optimización ? Anexo
SQL Server 2014 Microsoft SQL Server 2014 4 20 SQL
Server 2014 T-SQL SQL Server 2014
SQL Server 2014 SQL Server 2014
DBA Get up to speed
on installing and administering the world's most popular database,
Microsoft SQL Server 2014. First, find out how to plan your installation
of SQL Server, and get introduced to the various tools you'll use for
administration, such as SQL Server Management Studio. Then follow
along with guide Ron Davis as he shows how to automate and set up
maintenance plans, import and export data, and index databases. Finally,
learn about monitoring SQL Server 2014 and keeping your
databases and users secure. Microsoft SQL Server 2014
15
Microsoft SQL
Server 2014 PHP PHP 5.5
JavaScript ActiveX Microsoft Word Word
(Database Administrator, DBA)
Microsoft SQL Server 2014 PHP PHP 5.5
JavaScript ActiveX Microsoft Word Word
SQL Server
2014 PHP (DBA)
If you are a developer who is working on data mining for large
companies and would like to enhance your knowledge of SQL Server
Data Mining Suite, this book is for you. Whether you are brand new to

data mining or are a seasoned expert, you will be able to master the
skills needed to build a data mining solution. Optimize your database
server to be fast, efficient, and highly secure using the brand new
features of SQL Server 2014 with this book and ebook. Overview Design
your SQL Server 2014 infrastructure by combining both onpremise and
Windows Azure based technology Implement the new InMemory OLTP
database engine feature to enhance the performance of your transaction
databases This is a hands on tutorial that explores the new features of
SQL Server 2014 along with giving real world examples In Detail The
release of SQL Server 2014 has brought with it some great new features
and enhancements that database administrators can use to make their
database servers faster, highly available, and protected from disaster. As
the lines between on-premise and on-cloud based solutions become even
more blurred, enterprise database applications such as SQL Server 2014
have evolved to allow DBAs to utilize both services to maintain their key
service level agreements, ensuring that their important databases are
always available. SQL Server 2014 has a strong focus on business
intelligence, making it a vital tool if you are looking to improve the
performance of your processes as a relational database professional.
Getting Started with SQL Server 2014 Administration will guide you
through your first steps of learning SQL Server 2014 by introducing you
to its new features and helping you create a hybrid environment, which
is both highly available and allows you to get the best performance from
your databases. This book is for anyone who wants to boost their
database application performance to the next level. What you will learn
from this book Design a SQL Server infrastructure combining on-premise
servers and Windows Azure Storage Create a backup strategy that allows
you to store your SQL Server backup in the Windows Azure cloud
Improve database performance by using the In-Memory OLTP features
Implement the delayed durability feature to improve transaction latency
Use a cloud-based replica to build an AlwaysOn Availability Group Learn
the other enhancements and new features that can help improve
database performance Approach This is an easy-to-follow 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. 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

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Get up to speed on installing and administering the world's most popular database, Microsoft SQL Server 2014. First, find out how to plan your installation of SQL Server, and get introduced to the various tools you'll use for administration, such as SQL Server Management Studio. Then follow along with guide Ron Davis as he shows how to automate and set up maintenance plans, import and export data, and index databases. Finally, learn about monitoring SQL Server 2014 and keeping your databases-and users-secure. Книга посвящена установке, настройке, администрированию и разработке баз данных с помощью СУБД SQL Server 2014. Материал сопровождается большим количеством примеров кода, которые можно использовать на практике. Рассмотрены: · основы языка Transact-SQL; · создание базы данных и основных ее объектов; ·

средства отображения объектов и всех их характеристик; · типы данных, допустимые операции, пользовательские типы данных; · проектирование, создание и изменение таблиц; · ограничения таблицы, индексы; · заполнение таблиц данными, изменение и удаление данных; · выборка данных из базы данных; · представления; · транзакции, их характеристики и взаимодействие; · хранимые процедуры и триггеры; · средства копирования и восстановления базы данных и др. Примеры из книги можно скачать по ссылке ftp://ftp.bhv.ru/97859775_34925.zip, а также со страницы книги на сайте www.bhv.ru. Business Intelligence (BI) has emerged as a field which seeks to support managers in decision-making. It encompasses the techniques, methods and tools for conducting analytically-based IT solutions, which are referred to as OLAP (OnLine Analytical Processing). Within this field, SQL has a role as a leader and is continuously evolving to cover both transactional and analytical data management. This book discusses the functions provided by Microsoft® SQL Server 2014/2016 in terms of business intelligence. The analytic functions are considered as an enrichment of the SQL language. They combine a series of practical functions to answer complex analysis requests with all the simplicity, elegance and acquired performance of the SQL language. Drawing on the wide experience of the author in teaching and research, as well as insights from contacts in the industry, this book focuses on the issues and difficulties faced by academics (students and teachers) and professionals engaged in data analysis with the SQL Server 2014/2016 database management system. Design, implement, and deliver a successful database solution with Microsoft SQL Server 2014 Overview Discover SQL Server 2014's new in-memory OLTP engine and performance-related improvements Explore the fundamentals of database planning and the Server Transact-SQL language syntax Gain hands-on experience with the use of scalar and table-valued functions, branching, and more advanced data structures In Detail SQL Server 2014 Development Essentials is an easy-to-follow yet comprehensive guide that is full of hands-on examples. With Microsoft SQL Server 2014, you can design, build, and deploy mission-critical database applications.

The variety of new in-memory features enable you to design high performance database applications that can improve the performance of your applications, making them as much as ten times more efficient in some cases. Whether you are thinking about becoming a database developer, architect, or administrator, or you are a seasoned database expert, this book will provide you with all the skills you need to successfully create, design, and deploy databases using SQL Server 2014. You will also learn how to add, modify, and delete data stored within a database. You will use Transact-SQL statements to create and manage advanced database objects that include scalar and table-valued functions, views, stored procedures, and triggers. Finally, you will learn about how SQL Server works, how indexes and statistics improve query performance, and the new SQL Server 2014 in-memory technologies.

What you will learn from this book

- Get introduced to SQL Server 2014's new in-memory database engine
- Understand SQL Server database architecture and relational database design
- Use joins, subqueries, CTEs, and windowing functions to write advanced Transact-SQL queries
- Learn about tools that let you monitor SQL Server database performance
- Identify and troubleshoot blocks or deadlocks that might slow down a system
- Design, create, and manage advanced database objects that include scalar and table-valued functions, views, stored procedures, and triggers
- Use SQL Server 2014's structured error handling blocks to handle errors that occur in the Transact-SQL batches and programmable objects

Approach This book is an easy-to-follow, comprehensive guide that is full of hands-on examples, which you can follow to successfully design, build, and deploy mission-critical database applications with SQL Server 2014.

Who this book is written for If you are a database developer, architect, or administrator who wants to learn how to design, implement, and deliver a successful database solution with SQL Server 2014, then this book is for you. Existing users of Microsoft SQL Server will also benefit from this book as they will learn what's new in the latest version. This is an easy-to-follow hands-on tutorial that includes real world examples of SQL Server 2014's new features. Each chapter is explained in a step-by-step 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. Buku ini mengupas pemrograman database menggunakan MS SQL Server 2014. Cakupan yang dibahas antara lain:

- Pengenalan MS SQL Server 2014
- Instalasi MS SQL Server 2014
- Prinsip-Prinsip Dasar Bekerja dengan Database pada SQL Server
- Bekerja dengan DDL dan DCL dalam SQL Server
- Bekerja dengan Data dengan Memanfaatkan Statement T-SQL
- Modifikasi Data dengan Statement T-SQL
- Konsep Pemrograman Database
- Meningkatkan Performa SQL Server 2014

Buku ini cocok untuk pemula yang ingin mempelajari pemrograman database, khususnya yang melibatkan MS SQL Server sebagai platform utamanya.

Over 150 real-world recipes to simplify database management, automate repetitive tasks, and enhance your productivity

About This Book This book helps you build a strong foundation to get you comfortable using PowerShell with SQL Server, empowering you to create more complex scripts for your day-to-day job

The book provides numerous guidelines, tips, and explanations on how and when to use PowerShell cmdlets, WMI, SMO, .NET classes, or other components

It offers easy-to-follow, practical recipes to help you get the most out of SQL Server and PowerShell

Who This Book Is For If you are a SQL Server database professional (DBA, developer, or BI developer) who wants to use PowerShell to automate, integrate, and simplify database tasks, this book is for you. Prior knowledge of scripting would be helpful, but it is not necessary.

What You Will Learn

- Explore database objects and execute queries on multiple servers
- Manage and monitor the running of SQL Server services and accounts
- Back up and restore databases
- Create an inventory of database properties and server configuration settings
- Maintain permissions and security for users
- Work with CLR assemblies, XML, and BLOB objects in SQL
- Manage and deploy SSIS packages and SSRS reports

In Detail PowerShell can be leveraged when automating and streamlining SQL Server tasks. PowerShell comes with a rich set of

cmdlets, and integrates tightly with the .NET framework. Its scripting capabilities are robust and flexible, allowing you to simplify automation and integration across different Microsoft applications and components. The book starts with an introduction to the new features in SQL Server 2014 and PowerShell v5 and the installation of SQL Server. You will learn about basic SQL Server administration tasks and then get to know about some security-related topics such as the authentication mode and assigning permissions. Moving on, you will explore different methods to back up and restore your databases and perform advanced administration tasks such as working with Policies, Filetables, and SQL audits. The next part of the book covers more advanced HADR tasks such as log shipping and data mirroring, and then shows you how to develop your server to work with BLOB, XML, and JSON. Following on from that, you will learn about SQL Server's BI stack, which includes SSRS reports, the SSIS package, and the SSAS cmdlet and database. Snippets not specific to SQL Server will help you perform tasks quickly on SQL servers. Towards the end of the book, you will find some useful information, which includes a PowerShell tutorial for novice users, some commonly-used PowerShell and SQL Server syntax, and a few online resources. Finally, you will create your own SQL Server Sandbox VMs. All these concepts will help you to efficiently manage your administration tasks. Style and approach SQL Server 2014 with PowerShell v5 Cookbook is an example-focused book that provides step-by-step instructions on how to accomplish specific SQL Server tasks using PowerShell. Each recipe is followed by an analysis of the steps or design decisions taken and additional information about the task at hand. Working scripts are provided for all examples so that you can dive in right away. You can read this book sequentially by chapter or you can pick and choose which topics you need right away. Beginning SQL Server for Developers is the perfect book for developers new to SQL Server and planning to create and deploy applications against Microsoft's market-leading database system for the Windows platform. Now in its fourth edition, the book is enhanced to cover the very latest developments in SQL Server, including the in-memory features that are introduced in SQL

Server 2014. Within the book, there are plenty of examples of tasks that developers routinely perform. You'll learn to create tables and indexes, and be introduced to best practices for securing your valuable data. You'll learn design tradeoffs and find out how to make sound decisions resulting in scalable databases and maintainable code. SQL Server 2014 introduces in-memory tables and stored procedures. It's now possible to accelerate applications by creating tables (and their indexes) that reside entirely in memory, and never on disk. These new, in-memory structures differ from caching mechanisms of the past, and make possible the extraordinarily swift execution of certain types of queries such as are used in business intelligence applications. Beginning SQL Server for Developers helps you realize the promises of this new feature set while avoiding pitfalls that can occur when mixing in-memory tables and code with traditional, disk-based tables and code. Beginning SQL Server for Developers takes you through the entire database development process, from installing the software to creating a database to writing the code to connect to that database and move data in and out. By the end of the book, you'll be able to design and create solid and reliable database solutions using SQL Server. Takes you through the entire database application development lifecycle Includes brand new coverage of the in-memory features Introduces the freely-available Express Edition Written in an easy-to-follow, example-driven format, there are plenty of step-by-step instructions to help get you started! The book has a friendly approach, with the opportunity to learn by experimenting. If you are a BI and Data Warehouse developer new to Microsoft Business Intelligence, and looking to get a good understanding of the different components of Microsoft SQL Server for Business Intelligence, this book is for you. It's assumed that you will have some experience in databases systems and T-SQL. This book is will give you a good upshot view of each component and scenarios featuring th. Learn to take advantage of the opportunities offered by SQL Server 2014 Microsoft's SQL Server 2014 update means big changes for database administrators, and you need to get up to speed quickly because your methods, workflow, and favorite techniques will be different from here on out. The update's enhanced support of large-scale

enterprise databases and significant price advantage mean that SQL Server 2014 will become even more widely adopted across the industry. The update includes new backup and recovery tools, new AlwaysOn features, and enhanced cloud capabilities. In-memory OLTP, Buffer Pool Extensions for SSDs, and a new Cardinality Estimator can improve functionality and smooth out the workflow, but only if you understand their full capabilities. Professional Microsoft SQL Server 2014 is your comprehensive guide to working with the new environment. Authors Adam Jorgensen, Bradley Ball, Ross LoForte, Steven Wort, and Brian Knight are the dream team of the SQL Server community, and they put their expertise to work guiding you through the changes. Improve oversight with better management and monitoring Protect your work with enhanced security features Upgrade performance tuning, scaling, replication, and clustering Learn new options for backup and recovery Professional Microsoft SQL Server 2014 includes a companion website with sample code and efficient automation utilities, plus a host of tips, tricks, and workarounds that will make your job as a DBA or database architect much easier. Stop getting frustrated with administrative issues and start taking control. Professional Microsoft SQL Server 2014 is your roadmap to mastering the update and creating solutions that work.

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