

# **Microsoft Sql Server 2014 Business Intelligence Development Beginners Guide**

## **Microsoft SQL Server 2014 Business Intelligence Development Beginner's Guide**

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.

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## **Microsoft SQL Server 2016**

Up-to-date Microsoft SQL Server 2016 skills made easy! Get up and running on Microsoft SQL Server 2016 in no time with help from this thoroughly revised, practical resource. The book offers thorough coverage of SQL management and development and features full details on the newest business intelligence, reporting, and security features. Filled with new real-world examples and hands-on exercises, Microsoft SQL Server 2016: A Beginner's Guide, Sixth Edition, starts by explaining fundamental relational database system concepts. From there, you will learn how to write Transact-SQL statements, execute simple and complex database queries, handle system administration and security, and use the powerful analysis and BI tools. XML, spatial data, and full-text search are also covered in this step-by-step tutorial. · Revised from the ground up to cover the latest version of SQL Server · Ideal both as a self-study guide and a classroom textbook · Written by a prominent professor and best-selling author.

## **Knight's Microsoft Business Intelligence 24-Hour Trainer**

A book-and-video introduction to Microsoft's Business Intelligence tools If you are just starting to get a handle on Microsoft Business Intelligence (BI) tools, this book and accompanying video provides you with the just the right amount of information to perform basic business analysis and reporting. You'll explore the components and related tools that comprise the Microsoft BI toolset as well as the new BI features of Office 2010. After a basic primer on BI and data modeling, the expert team of authors provides you with step-by-step lessons in the book and videos on the accompanying DVD on how to use SQL Server Integration Services, SQL Server Analysis Services, SQL Server Reporting Services, Excel BI (including PowerPivot), and SharePoint. Integrates instructional videos with each of the lessons found in the book to enhance your learning experience Explores the Microsoft Business Intelligence (BI) toolset as well as the new BI features of Office 2010 Encourages you to practice what you've learned in "Try It Out" sections Contains video demonstrations that walk you through how to tackle each lesson featured in the book With Knight's Microsoft Business Intelligence 24-Hour Trainer, veteran authors present you with an ideal introductory book-and-video package so that you can get started working with the BI

toolset immediately! Note: As part of the print version of this title, video lessons are included on DVD. For e-book versions, video lessons can be accessed at [wrox.com](http://wrox.com) using a link provided in the interior of the e-book.

## **MICROSOFT SQL SERVER 2008 A BEGINNER'S GUIDE 4/E**

Includes all-new examples and a new practice database Previous editions sold 43,000 copies

## **Microsoft SQL Server 2016: A Beginner's Guide, Sixth Edition**

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Up-to-date Microsoft SQL Server 2016 skills made easy! Get up and running on Microsoft SQL Server 2016 in no time with help from this thoroughly revised, practical resource. The book offers thorough coverage of SQL management and development and features full details on the newest business intelligence, reporting, and security features. Filled with new real-world examples and hands-on exercises, Microsoft SQL Server 2016: A Beginner's Guide, Sixth Edition, starts by explaining fundamental relational database system concepts. From there, you will learn how to write Transact-SQL statements, execute simple and complex database queries, handle system administration and security, and use the powerful analysis and BI tools. XML, spatial data, and full-text search are also covered in this step-by-step tutorial. · Revised from the ground up to cover the latest version of SQL Server · Ideal both as a self-study guide and a classroom textbook · Written by a prominent professor and best-selling author

## **Professional Microsoft SQL Server 2012 Analysis Services with MDX and DAX**

Understand Microsoft's dramatically updated new release of its premier toolset for business intelligence The first major update to Microsoft's state-of-the-art, complex toolset for business intelligence (BI) in years is

now available and what better way to master it than with this detailed book from key members of the product's development team? If you're a database or data warehouse developer, this is the expert resource you need to build full-scale, multi-dimensional, database applications using Microsoft's new SQL Server 2012 Analysis Services and related tools. Discover how to solve real-world BI problems by leveraging a slew of powerful new Analysis Services features and capabilities. These include the new DAX language, which is a more user-friendly version of MDX; PowerPivot, a new tool for performing simplified analysis of data; BISM, Microsoft's new Business Intelligence Semantic Model; and much more. Serves as an authoritative guide to Microsoft's new SQL Server 2012 Analysis Services BI product and is written by key members of the Microsoft Analysis Services product development team Covers SQL Server 2012 Analysis Services, a major new release with a host of powerful new features and capabilities Topics include using the new DAX language, a simplified, more user-friendly version of MDX; PowerPivot, a new tool for performing simplified analysis of data; BISM, Microsoft's new Business Intelligence Semantic Model; and a new, yet-to-be-named BI reporting tool Explores real-world scenarios to help developers build comprehensive solutions Get thoroughly up to speed on this powerful new BI toolset with the timely and authoritative Professional Microsoft SQL Server 2012 Analysis Services with MDX.

## **Microsoft SQL Server 2012 A Beginners Guide 5/E**

Essential Microsoft SQL Server 2012 Skills Made Easy Get up and running on Microsoft SQL Server 2012 in no time with help from this thoroughly revised, practical resource. Filled with real-world examples and hands-on exercises, Microsoft SQL Server 2012: A Beginner's Guide, Fifth Edition starts by explaining fundamental relational database system concepts. Then, you'll learn how to write Transact-SQL statements, execute simple and complex database queries, handle system administration and security, and use the powerful analysis, business intelligence, and reporting tools. XML, spatial data, and full-text search are also covered in this step-by-step tutorial. Install, configure, and customize SQL Server 2012 Create and modify database objects with Transact SQL statements Write stored procedures and user-defined functions Handle backup and recovery Automate administrative tasks Tune your database system for optimal performance, availability, and reliability Implement security measures using authentication,

encryption, and authorization Work with SQL Server Analysis Services, SQL Server Reporting Services, and other business intelligence tools Store, display, and query XML documents Manage spatial data Query documents using MS Full-Text Search (FTS)

## **Microsoft Sql Server 2005**

Learn to use all the powerful features available in SQL Server 2005 from this straightforward, hands-on guide. Set up SQL Server 2005, automate system administration tasks, execute simple and complex database queries, and use the robust analysis, business intelligence, and reporting tools. Troubleshooting, data partitioning, replication, and query optimization are also covered.

## **Applied Microsoft Business Intelligence**

Leverage the integration of SQL Server and Office for more effective BI Applied Microsoft Business Intelligence shows you how to leverage the complete set of Microsoft tools—including Microsoft Office and SQL Server—to better analyze business data. This book provides best practices for building complete BI solutions using the full Microsoft toolset. You will learn how to effectively use SQL Server Analysis and Reporting Services, along with Excel, SharePoint, and other tools to provide effective and cohesive solutions for the enterprise. Coverage includes BI architecture, data queries, semantic models, multidimensional modeling, data analysis and visualization, performance monitoring, data mining, and more, to help you learn to perform practical business analysis and reporting. Written by an author team that includes a key member of the BI product team at Microsoft, this useful reference provides expert instruction for more effective use of the Microsoft BI toolset. Use Microsoft BI suite cohesively for more effective enterprise solutions Search, analyze, and visualize data more efficiently and completely Develop flexible and scalable tabular and multidimensional models Monitor performance, build a BI portal, and deploy and manage the BI Solution

## **Pro SQL Server 2012 BI Solutions**

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

## **Introducing Microsoft SQL Server 2014**

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

## **SQL Server Integration Services Design Patterns**

SQL Server Integration Services Design Patterns is newly-revised for SQL

Server 2014, and is a book of recipes for SQL Server Integration Services (SSIS). Design patterns in the book help to solve common problems encountered when developing data integration solutions. The patterns and solution examples in the book increase your efficiency as an SSIS developer, because you do not have to design and code from scratch with each new problem you face. The book's team of expert authors take you through numerous design patterns that you'll soon be using every day, providing the thought process and technical details needed to support their solutions. SQL Server Integration Services Design Patterns goes beyond the surface of the immediate problems to be solved, delving into why particular problems should be solved in certain ways. You'll learn more about SSIS as a result, and you'll learn by practical example. Where appropriate, the book provides examples of alternative patterns and discusses when and where they should be used. Highlights of the book include sections on ETL Instrumentation, SSIS Frameworks, Business Intelligence Markup Language, and Dependency Services. Takes you through solutions to common data integration challenges Provides examples involving Business Intelligence Markup Language Teaches SSIS using practical examples

## **Beginning Microsoft SQL Server 2012 Programming**

Get up to speed on the extensive changes to the newest release of Microsoft SQL Server The 2012 release of Microsoft SQL Server changes how you develop applications for SQL Server. With this comprehensive resource, SQL Server authority Robert Vieira presents the fundamentals of database design and SQL concepts, and then shows you how to apply these concepts using the updated SQL Server. Publishing time and date with the 2012 release, Beginning Microsoft SQL Server 2012 Programming begins with a quick overview of database design basics and the SQL query language and then quickly proceeds to show you how to implement the fundamental concepts of Microsoft SQL Server 2012. You'll explore the key additions and changes to this newest version, including conditional action constructs, enhanced controls for results paging, application integration with SharePoint and Excel, and development of BI applications. Covers new features such as SQL Azure for cloud computing, client-connectivity enhancements, security and compliance, data replication, and data warehouse performance improvements Addresses essential topics including managing keys, writing scripts, and working with store procedures Shares helpful

techniques for creating and changing tables, programming with XML, and using SQL Server Reporting and Integration Services Beginning Microsoft SQL Server 2012 Programming demystifies even the most difficult challenges you may face with the new version of Microsoft SQL Server.

## **Beginning Microsoft SQL Server 2008 Administration**

SQL Server 2008 introduces many new features that will change database administration procedures; many DBAs will be forced to migrate to SQL Server 2008. This book teaches you how to develop the skills required to successfully administer a SQL Server 2008 database; no prior experience is required. The material covers system installation and configuration/architecting, implementing and monitoring security controls, configuring and managing network communications, automating administration tasks, disaster prevention and recovery, performance monitoring, optimizing and ensuring high availability, as well as major SQL Server 2008 components including Integration Services, Reporting Services, Analysis Services, and Service Broker.

## **Applied Microsoft SQL Server 2012 Analysis Services**

A guide to tabular modeling of the Innovative Business Intelligence Semantic Model describes such tasks as integrating data from multiple sources, implementing business calculations and Kils, and designing cached and real-time data access.

## **The Microsoft Data Warehouse Toolkit**

This groundbreaking book is the first in the Kimball Toolkit series to be product-specific. Microsoft's BI toolset has undergone significant changes in the SQL Server 2005 development cycle. SQL Server 2005 is the first viable, full-functioned data warehouse and business intelligence platform to be offered at a price that will make data warehousing and business intelligence available to a broad set of organizations. This book is meant to offer practical techniques to guide those organizations through the myriad of challenges to true success as measured by

contribution to business value. Building a data warehousing and business intelligence system is a complex business and engineering effort. While there are significant technical challenges to overcome in successfully deploying a data warehouse, the authors find that the most common reason for data warehouse project failure is insufficient focus on the business users and business problems. In an effort to help people gain success, this book takes the proven Business Dimensional Lifecycle approach first described in best selling *The Data Warehouse Lifecycle Toolkit* and applies it to the Microsoft SQL Server 2005 tool set. Beginning with a thorough description of how to gather business requirements, the book then works through the details of creating the target dimensional model, setting up the data warehouse infrastructure, creating the relational atomic database, creating the analysis services databases, designing and building the standard report set, implementing security, dealing with metadata, managing ongoing maintenance and growing the DW/BI system. All of these steps tie back to the business requirements. Each chapter describes the practical steps in the context of the SQL Server 2005 platform.

**Intended Audience** The target audience for this book is the IT department or service provider (consultant) who is: Planning a small to mid-range data warehouse project; Evaluating or planning to use Microsoft technologies as the primary or exclusive data warehouse server technology; Familiar with the general concepts of data warehousing and business intelligence. The book will be directed primarily at the project leader and the warehouse developers, although everyone involved with a data warehouse project will find the book useful. Some of the book's content will be more technical than the typical project leader will need; other chapters and sections will focus on business issues that are interesting to a database administrator or programmer as guiding information. The book is focused on the mass market, where the volume of data in a single application or data mart is less than 500 GB of raw data. While the book does discuss issues around handling larger warehouses in the Microsoft environment, it is not exclusively, or even primarily, concerned with the unusual challenges of extremely large datasets.

**About the Authors** JOY MUNDY has focused on data warehousing and business intelligence since the early 1990s, specializing in business requirements analysis, dimensional modeling, and business intelligence systems architecture. Joy co-founded InfoDynamics LLC, a data warehouse consulting firm, then joined Microsoft WebTV to develop closed-loop analytic applications and a packaged data warehouse. Before returning to consulting with the Kimball Group in 2004, Joy worked in Microsoft SQL Server product

development, managing a team that developed the best practices for building business intelligence systems on the Microsoft platform. Joy began her career as a business analyst in banking and finance. She graduated from Tufts University with a BA in Economics, and from Stanford with an MS in Engineering Economic Systems. WARREN THORNTHWAITE has been building data warehousing and business intelligence systems since 1980. Warren worked at Metaphor for eight years, where he managed the consulting organization and implemented many major data warehouse systems. After Metaphor, Warren managed the enterprise-wide data warehouse development at Stanford University. He then co-founded InfoDynamics LLC, a data warehouse consulting firm, with his co-author, Joy Mundy. Warren joined up with WebTV to help build a world class, multi-terabyte customer focused data warehouse before returning to consulting with the Kimball Group. In addition to designing data warehouses for a range of industries, Warren speaks at major industry conferences and for leading vendors, and is a long-time instructor for Kimball University. Warren holds an MBA in Decision Sciences from the University of Pennsylvania's Wharton School, and a BA in Communications Studies from the University of Michigan. RALPH KIMBALL, PH.D., has been a leading visionary in the data warehouse industry since 1982 and is one of today's most internationally well-known authors, speakers, consultants, and teachers on data warehousing. He writes the "Data Warehouse Architect" column for Intelligent Enterprise (formerly DBMS) magazine.

## **SQL Server 2017 Developer's Guide**

Build smarter and efficient database application systems for your organization with SQL Server 2017 Key Features Build database applications by using the development features of SQL Server 2017 Work with temporal tables to get information stored in a table at any time Use adaptive querying to enhance the performance of your queries Book Description Microsoft SQL Server 2017 is the next big step in the data platform history of Microsoft as it brings in the power of R and Python for machine learning and containerization-based deployment on Windows and Linux. Compared to its predecessor, SQL Server 2017 has evolved into Machine Learning with R services for statistical analysis and Python packages for analytical processing. This book prepares you for more advanced topics by starting with a quick introduction to SQL Server 2017's new features and a recapitulation of the possibilities you

may have already explored with previous versions of SQL Server. The next part introduces you to enhancements in the Transact-SQL language and new database engine capabilities and then switches to a completely new technology inside SQL Server: JSON support. We also take a look at the Stretch database, security enhancements, and temporal tables. Furthermore, the book focuses on implementing advanced topics, including Query Store, columnstore indexes, and In-Memory OLTP. Towards the end of the book, you'll be introduced to R and how to use the R language with Transact-SQL for data exploration and analysis. You'll also learn to integrate Python code in SQL Server and graph database implementations along with deployment options on Linux and SQL Server in containers for development and testing. By the end of this book, you will have the required information to design efficient, high-performance database applications without any hassle. What you will learn

- Explore the new development features introduced in SQL Server 2017
- Identify opportunities for In-Memory OLTP technology
- Use columnstore indexes to get storage and performance improvements
- Exchange JSON data between applications and SQL Server
- Use the new security features to encrypt or mask the data
- Control the access to the data on the row levels
- Discover the potential of R and Python integration
- Model complex relationships with the graph databases in SQL Server 2017

Who this book is for Database developers and solution architects looking to design efficient database applications using SQL Server 2017 will find this book very useful. In addition, this book will be valuable to advanced analysis practitioners and business intelligence developers. Database consultants dealing with performance tuning will get a lot of useful information from this book as well. Some basic understanding of database concepts and T-SQL is required to get the best out of this book.

## **Smart Business Intelligence Solutions with Microsoft SQL Server 2008**

Get the end-to-end instruction you need to design, develop, and deploy more effective data integration, reporting, and analysis solutions using SQL Server 2008—whether you're new to business intelligence (BI) programming or a seasoned pro. With real-world examples and insights from an expert team, you'll master the concepts, tools, and techniques for building solutions that deliver intelligence—and business

value—exactly where users want it. Discover how to: Manage the development life cycle and build a BI team Dig into SQL Server Analysis Services, Integration Services, and Reporting Services Navigate the Business Intelligence Development Studio (BIDS) Write queries that rank, sort, and drill down on sales data Develop extract, transform, and load (ETL) solutions Add a source code control system Help secure packages for deployment via encryption and credentials Use MDX and DMX Query Designers to build reports based on OLAP cubes and data mining models Create and implement custom objects using .NET code View reports in Microsoft Office Excel and Office SharePoint Serverook

## **Microsoft SQL Server 2005: A Beginner's Guide**

It's been five years since Microsoft released a new version of SQL Server—which holds 39% of the Windows database market—and the latest edition of this bestselling beginner's guide gets users up and running on SQL Server 2005. The book covers database concepts, and discusses key topics for new users including the SQL Server Workbench, T-SQL, automated administration tasks, security, and analysis.

## **Microsoft SQL Server 2005 Developer's Guide**

Developers will discover how to unleash the full power of Microsoft SQL Server 2005 with this developer's guide by best-selling author, Michael Otey. Completely rewritten and reengineered, this book will focus on the new programming models and will provide readers with all the information they need to produce top-quality commercial applications

## **Microsoft SQL Server 2012 A Beginners Guide 5/E [Paperback] Dusan Petkovic (Author)**

Просто и доступно рассмотрены теоретические основы СУБД SQL Server 2012. Показана установка, конфигурирование и поддержка MS SQL Server 2012. Описан язык манипулирования данными Transact-SQL. Рассмотрены создание базы данных, изменение таблиц и их содержимого, запросы, индексы, представления,

триггеры, хранимые процедуры и функции, определенные пользователем. Показана реализация безопасности с использованием аутентификации, шифрования и авторизации. Уделено внимание автоматизации задач администрирования СУБД. Рассмотрено создание резервных копий данных и выполнение восстановления системы. Описаны службы Microsoft Analysis Services, Microsoft Reporting Services и другие инструменты для бизнес-анализа. Рассмотрены технология работы с документами XML, управление пространственными данными, полнотекстовый поиск и многое другое.

## **Professional Microsoft SQL Server 2012 Reporting Services**

A must-have guide for the latest updates to the new release of Reporting Services SQL Server Reporting Services allows you to create reports and business intelligence (BI) solutions. With this updated resource, a team of experts shows you how Reporting Services makes reporting faster, easier and more powerful than ever in web, desktop, and portal solutions. New coverage discusses the new reporting tool called Crescent, BI semantic model's impact on report design and creation, semantic model design, and more. You'll explore the major enhancements to Report Builder and benefit from best practices shared by the authors. Builds on the previous edition while also providing coverage of the new features introduced with SQL Server 2012 Explains Reporting Services architecture and BI fundamentals Covers advanced report design and filtering techniques, walking you through each design, discussing its purpose and the conditions where it could be more efficient Discusses semantic model design, Report Builder, Crescent, and more Targets business analysts and report designers as well as BI solution developers Professional Microsoft SQL Server 2012 Reporting Services is mandatory reading if you are eager to start using the newest version of SQL Server Reporting Services.

## **Microsoft SQL Server 2019**

Start working with Microsoft SQL Server 2019 in no time with help from

this thoroughly revised, practical resource. --

## **Practical Business Intelligence with SQL Server 2005**

Design, Build, and Manage High-Value BI Solutions with SQL Server 2005

In this book, two of Microsoft's leading consultants illustrate how to use SQL Server 2005 Business Intelligence (BI) technologies to solve real-world problems in markets ranging from retail and finance to healthcare. Drawing on extensive personal experience with Microsoft's strategic customers, John C. Hancock and Roger Toren offer unprecedented insight into BI systems design and step-by-step best practices for implementation, deployment, and management. Hancock and Toren introduce practical BI concepts and terminology and provide a concise primer on the Microsoft BI platform. Next, they turn to the heart of the book—constructing solutions. Each chapter-length case study begins with the customer's business goals, and then guides you through detailed data modeling. The case studies show how to avoid the pitfalls that derail many BI projects. You'll translate each model into a working system and learn how to deploy it into production, maintenance, and efficient operation. Whether you're a decision-maker, architect, developer, or DBA, this book brings together all the knowledge you'll need to derive maximum business value from any BI project.

- Leverage SQL Server 2005 databases, Integration Services, Analysis Services, and Reporting Services
- Build data warehouses and extend them to support very large databases
- Design effective Analysis Services databases
- Ensure the superior data quality your BI system needs
- Construct advanced enterprise scorecard applications
- Use data mining to segment customers, cross-sell, and increase the value of each transaction
- Design real-time BI applications
- Get hands-on practice with SQL Server 2005's BI toolset

## **Professional Microsoft SharePoint 2007 Reporting with SQL Server 2008 Reporting Services**

Essential guide to developing and deploying high-profile reports in SharePoint Build customized reports quickly and efficiently with SQL Server 2008 Reporting Services for SharePoint sites and this unique guide. Developers, you'll learn report development and deployment;

SharePoint or SQL Server Reporting Services administrators, you'll see how to leverage SharePoint to use SQL Server Reporting Services in SharePoint Integrated Mode. This valuable book walks users through the entire process: planning, developing, and deploying reports. You'll discover techniques, tricks, and workarounds that allow you to produce great-looking charts and reports for your SharePoint sites. SQL Server Reporting Services (SSRS) is the customizable reporting solution for any developer using VB, C#, or ASP.NET who ties into SQL Server to build reports or generate data analysis; SharePoint is Microsoft's portal development platform and is central to the Microsoft Office and developer platform. This book from an expert author team of Microsoft SharePoint 2007 developers covers not only topics relevant to developers, it also goes into the specific nuances of using these reports in a SharePoint environment, such as what to consider when setting up SSRS to run specifically in SharePoint integration mode with WSS 3.0 or MOSS 2007. Topics include introduction to SQL Server Reporting Services, setting up SQL Server Reporting Services for SharePoint 2007, planning your report project, an overview of Business Intelligence Design Studio (BIDS) 2008, intermediate and advanced reporting techniques, deploying to SharePoint 2007, displaying reports, and more. Discover new, efficient ways to leverage your core investment in SharePoint 2007 with this one-of-a-kind guide. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

## **Technological Innovation for Applied AI Systems**

This book constitutes the refereed proceedings of the 12th IFIP WG 5.5/SOCOLNET Advanced Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2021, held in Costa de Caparica, Portugal, in July 2021.\* The 34 papers presented were carefully reviewed and selected from 92 submissions. The papers present selected results produced in engineering doctoral programs and focus on technological innovation for industry and service systems. Research results and ongoing work are presented, illustrated and discussed in the following areas: collaborative networks; smart manufacturing; cyber-physical systems and digital twins; intelligent decision making; smart energy management; communications and electronics; classification systems; smart healthcare systems; and medical devices. \*The conference was held virtually. Chapters "Characteristics of Adaptable Control of Production Systems and the Role of Self-organization Towards

Smart Manufacturing” and “Predictive Manufacturing: Enabling Technologies, Frameworks and Applications” are available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](http://link.springer.com).

## **Professional Microsoft SQL Server Analysis Services 2008 with MDX**

When used with the MDX query language, SQL Server Analysis Services allows developers to build full-scale database applications to support such business functions as budgeting, forecasting, and market analysis. Shows readers how to build data warehouses and multi-dimensional databases, query databases, and use Analysis Services and other components of SQL Server to provide end-to-end solutions Revised, updated, and enhanced, the book discusses new features such as improved integration with Office and Excel 2007; query performance enhancements; improvements to aggregation designer, dimension designer, cube and dimension wizards, and cell writeback; extensibility and personalization; data mining; and more

## **Microsoft SQL Server 2008 Analysis Services Step by Step**

Teach yourself to use SQL Server 2008 Analysis Services for business intelligence—one step at a time. You'll start by building your understanding of the business intelligence platform enabled by SQL Server and the Microsoft Office System, highlighting the role of Analysis Services. Then, you'll create a simple multidimensional OLAP cube and progressively add features to help improve, secure, deploy, and maintain an Analysis Services database. You'll explore core Analysis Services 2008 features and capabilities, including dimension, cube, and aggregation design wizards; a new attribute relationship designer; designer AMO warnings; and using dynamic management views to monitor resources. And as you complete each lesson, you can hone your skills using the practice exercises from the companion CD. Plus, you can review and download code samples illustrating the author's own, professional techniques—direct from the companion Web site. For customers who purchase an ebook version of this title, instructions for

downloading the CD files can be found in the ebook.

## **Row-Level Security in Power BI**

I have been writing and presenting about Row-Level Security in Power BI for many years. Through the comments and feedback I got from my presentations and articles, I felt a need for a place to have everything gathered in one place. The lack of a book that explains everything about the current subject motivated me to end up gathering all my articles in this book. The result is what you are reading. Row-Level Security in Power BI is not about sharing your content. It is, on the other hand, about sharing the same content with a different audience in the way that they see different views of the data. They will have different access to the data. Some of them might see the entire data, and some others might see part of the data that they are authorized to see. Instead of creating multiple reports with the same format, fields, calculations, and visualizations, and only making them different in filtering, the correct way to do it is through row-level security. This will make sure you have the maximum consistency and minimum maintenance for your Power BI project. This is not a book about theories. This is a hands-on book. There are tons of demos and examples with the code samples that you can try. You will learn through this book, what is row-level security. You will learn different types of security and patterns in which you will see the most common challenges for implementing the security and the solution to save them. The book starts with the basics of row-level security, then you will learn about static vs. dynamic row-level security. You will learn patterns such as everyone see their own data, but the manager sees a different view or users and profiles for branch managers. Or the organizational hierarchy, or even the many-to-many relationship challenge of row-level security etc. through this book. This book is not about how to create a report, build a visualization, connect to a dataset, or set up a gateway. If you want to learn those, I do recommend reading my other book: Power BI online book, from Rookie to Rock Star.

## **Microsoft SQL Server 2012 Integration Services**

This book is written in a simple, easy to understand format with lots of screenshots and step-by-step explanations. If you are an SQL database

administrator or developer looking to explore all the aspects of SSIS and need to use SSIS in the data transfer parts of systems, then this is the best guide for you. Basic understanding of working with SQL Server Integration Services is required.

## **Microsoft Business Intelligence For Dummies**

Learn to create an effective business strategy using Microsoft's BI stack Microsoft Business Intelligence tools are among the most widely used applications for gathering, providing access to, and analyzing data to enable the enterprise to make sound business decisions. The tools include SharePoint Server, the Office Suite, PerformancePoint Server, and SQL Server, among others. With so much jargon and so many technologies involved, Microsoft Business Intelligence For Dummies provides a much-needed step-by-step explanation of what's involved and how to use this powerful package to improve your business. Microsoft Business Intelligence encompasses a broad collection of tools designed to help business owners and managers direct the enterprise effectively This guide provides an overview of SharePoint, PerformancePoint, the SQL Server suite, Microsoft Office, and the BI development technologies Explains how the various technologies work together to solve functional problems Translates the buzzwords and shows you how to create your business strategy Examines related technologies including data warehousing, data marts, Online Analytical Processing (OLAP), data mining, reporting, dashboards, and Key Performance Indicators (KPIs) Simplifies this complex package to get you up and running quickly Microsoft Business Intelligence For Dummies demystifies these essential tools for enterprise managers, business analysts, and others who need to get up to speed.

## **Foundations of SQL Server 2005 Business Intelligence**

This book is the most concise yet comprehensive introduction to SQL Server 2005 Business Intelligence. The book is the quickest path to seeing the Business Intelligence (BI) forest as a whole as well as understanding the trees within it. It is essential reading for all who work with SQL Server 2005. Foundations of SQL Server 2005 Business Intelligence is written by a noted expert from a practical perspective. It

is designed for all users of any of the tools in SQL Server 2005's extraordinarily rich BI product suite. Developers, end-users, and even managers will find this an enlightening guide to the power and promise of SQL Server 2005 BI.

## **SQL Server 2016 Developer's Guide**

Get the most out of the rich development capabilities of SQL Server 2016 to build efficient database applications for your organization  
About This Book- Utilize the new enhancements in Transact-SQL and security features in SQL Server 2016 to build efficient database applications- Work with temporal tables to get information about data stored in the table at any point in time- A detailed guide to SQL Server 2016, introducing you to multiple new features and enhancements to improve your overall development experience  
Who This Book Is For This book is for database developers and solution architects who plan to use the new SQL Server 2016 features for developing efficient database applications. It is also ideal for experienced SQL Server developers who want to switch to SQL Server 2016 for its rich development capabilities. Some understanding of the basic database concepts and Transact-SQL language is assumed.  
What You Will Learn- Explore the new development features introduced in SQL Server 2016- Identify opportunities for In-Memory OLTP technology, significantly enhanced in SQL Server 2016- Use columnstore indexes to get significant storage and performance improvements- Extend database design solutions using temporal tables- Exchange JSON data between applications and SQL Server in a more efficient way- Migrate historical data transparently and securely to Microsoft Azure by using Stretch Database- Use the new security features to encrypt or to have more granular control over access to rows in a table- Simplify performance troubleshooting with Query Store- Discover the potential of R's integration with SQL Server  
In Detail Microsoft SQL Server 2016 is considered the biggest leap in the data platform history of the Microsoft, in the ongoing era of Big Data and data science. Compared to its predecessors, SQL Server 2016 offers developers a unique opportunity to leverage the advanced features and build applications that are robust, scalable, and easy to administer. This book introduces you to new features of SQL Server 2016 which will open a completely new set of possibilities for you as a developer. It prepares you for the more advanced topics by starting with a quick introduction to SQL Server 2016's new features and a recapitulation of the possibilities

you may have already explored with previous versions of SQL Server. The next part introduces you to small delights in the Transact-SQL language and then switches to a completely new technology inside SQL Server - JSON support. We also take a look at the Stretch database, security enhancements, and temporal tables. The last chapters concentrate on implementing advanced topics, including Query Store, columnstore indexes, and In-Memory OLTP. You will finally be introduced to R and how to use the R language with Transact-SQL for data exploration and analysis. By the end of this book, you will have the required information to design efficient, high-performance database applications without any hassle.

**Style and approach** This book is a detailed guide to mastering the development features offered by SQL Server 2016, with a unique learn-as-you-do approach. All the concepts are explained in a very easy-to-understand manner and are supplemented with examples to ensure that you-the developer-are able to take that next step in building more powerful, robust applications for your organization with ease.

## **Microsoft SQL Server 2005 Integration Services Step by Step**

Teach yourself the fundamentals of SQL Server Integration Services—one step at a time. This practical, learn-by-doing tutorial delivers the guidance you need to transform and consolidate data—and build solutions that support your business intelligence needs. Discover how to:

- Design and execute packages that transform data between files and relational databases
- Configure connection managers to access other data sources
- Create data flows that alter, split, match, and merge data
- Develop event-handlers and monitor package performance
- Encrypt sensitive information and control access to packages
- Customize script code to automate Control Flow and Data Flow tasks
- Debug, troubleshoot, and optimize packages

**CD features:** All practice exercises  
Sample databases  
Fully searchable eBook  
For customers who purchase an ebook version of this title, instructions for downloading the CD files can be found in the ebook.

## **Smart and Sustainable Collaborative Networks 4.0**

This book constitutes the refereed proceedings of the 22nd IFIP WG 5.5 Working Conference on Virtual Enterprises, PRO-VE 2021, held in Saint-Étienne, and virtually in November 2021. The 70 papers (15 full and 55 short) presented with 5 industrial workshop papers were carefully reviewed and selected from 189 submissions. They provide a comprehensive overview of major challenges and recent advances in various domains related to the digital transformation and collaborative networks and their applications with a strong focus on the following areas related to the main theme of the conference: sustainable collaborative networks; sustainability via digitalization; analysis and assessment of business ecosystems; human factors in collaboration 4.0; maintenance and life-cycle management; policies and new digital services; safety and collaboration management; simulation and optimization; complex collaborative systems and ontologies; value co-creation in digitally enabled ecosystems; digitalization strategy in collaborative enterprises' networks; pathways and tools for DIHs; socio-technical perspectives on smart product-service systems; knowledge transfer and accelerated innovation in FoF; interoperability of IoT and CPS for industrial CNs; sentient immersive response network; digital tools and applications for collaborative healthcare; collaborative networks and open innovation in education 4.0; collaborative learning networks with industry and academia; and industrial workshop.

## **T-SQL in One Hour a Day, Sams Teach Yourself**

Master T-SQL database design, development, and administration the easy way-hands-on! In just one hour a day, you'll build all the skills you need to create effective database applications with T-SQL and SQL Server. With this complete tutorial, you'll quickly master the basics and then move on to more advanced features and concepts: Learn the fundamentals of T-SQL from the ground up, one step at a time Succeed with the newest versions of T-SQL, SQL Server, and SQL Server Management Studio Use T-SQL effectively as both an application developer and DBA Master powerful stored procedures, triggers, transactions, and user-defined functions (UDFs) Systematically optimize and secure your SQL Server databases Learn on your own time, at your own pace No previous T-SQL or database programming experience required Learn how to design efficient, reliable SQL Server databases

Define efficient tables, table relationships, fields, and constraints Make the most of T-SQL's SELECT and UPDATE statements Work effectively with simple and complex views and joins Master stored procedure techniques every developer should know Build and use powerful User-Defined Functions (UDFs) Secure databases with authentication, roles, permissions, and principals Configure, maintain, and tune SQL Server for maximum reliability, performance, and value Back up, restore, and audit databases Optimize databases with the SQL Server Profiler, System Monitor, and Index Tuning Wizard Leverage valuable insight and time saving techniques from a world renowned database expert Register your book at [informit.com/register](http://informit.com/register) for access to source code, example files, updates, and corrections as they become available.

## **Knight's 24-Hour Trainer**

A unique book-and-video package for learning Microsoft SQL Server Integration Services If you need a practical, hands-on introduction to Microsoft SQL Server 2008 Integration Services (SSIS), this book and video package from foremost SSIS authority Brian Knight gets you thoroughly up to speed. Each lesson in the book includes three major components: a thorough description of how each SSIS feature or process works; a tutorial that walks you through the process or technique; and a video lesson that demonstrates it. If you take full advantage of this comprehensive package, you will gain enough experience to tackle your first SSIS project with confidence. SQL Server Integration Services 2008 (SSIS) builds on the revolutionary database product suite first introduced by Microsoft in 2005 and is a powerful tool for performing extraction, transformation, and load (ETL) operations essential to data warehousing If you're just learning SSIS, the step-by-step tutorials in this book and DVD training package will ready you to tackle your own first project Every lesson in the book is supplemented by instructional video on the DVD Note:As a part of this title, video lessons are included on DVD. For the e-book versions, video lessons can be accessed at [wrox.com](http://wrox.com) using a link provided in the interior of the e-book.

## **SQL Server 2012 Integration Services Design Patterns**

SQL Server 2012 Integration Services Design Patterns is a book of

recipes for SQL Server Integration Services (SSIS). Design patterns in the book show how to solve common problems encountered when developing data integration solutions. Because you do not have to build the code from scratch each time, using design patterns improves your efficiency as an SSIS developer. In SSIS Design Patterns, we take you through several of these snippets in detail, providing the technical details of the resolution. SQL Server 2012 Integration Services Design Patterns does not focus on the problems to be solved; instead, the book delves into why particular problems should be solved in certain ways. You'll learn more about SSIS as a result, and you'll learn by practical example. Where appropriate, SQL Server 2012 Integration Services Design Patterns provides examples of alternative patterns and discusses when and where they should be used. Highlights of the book include sections on ETL Instrumentation, SSIS Frameworks, and Dependency Services. Takes you through solutions to several common data integration challenges Demonstrates new features in SQL Server 2012 Integration Services Teaches SSIS using practical examples

## **The Microsoft Data Warehouse Toolkit**

Best practices and invaluable advice from world-renowned data warehouse experts In this book, leading data warehouse experts from the Kimball Group share best practices for using the upcoming “Business Intelligence release” of SQL Server, referred to as SQL Server 2008 R2. In this new edition, the authors explain how SQL Server 2008 R2 provides a collection of powerful new tools that extend the power of its BI toolset to Excel and SharePoint users and they show how to use SQL Server to build a successful data warehouse that supports the business intelligence requirements that are common to most organizations. Covering the complete suite of data warehousing and BI tools that are part of SQL Server 2008 R2, as well as Microsoft Office, the authors walk you through a full project lifecycle, including design, development, deployment and maintenance. Features more than 50 percent new and revised material that covers the rich new feature set of the SQL Server 2008 R2 release, as well as the Office 2010 release Includes brand new content that focuses on PowerPivot for Excel and SharePoint, Master Data Services, and discusses updated capabilities of SQL Server Analysis, Integration, and Reporting Services Shares detailed case examples that clearly illustrate how to best apply the techniques described in the book The accompanying Web site contains all code

samples as well as the sample database used throughout the case studies The Microsoft Data Warehouse Toolkit, Second Edition provides you with the knowledge of how and when to use BI tools such as Analysis Services and Integration Services to accomplish your most essential data warehousing tasks.

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