

# Practical Mdx Queries For Microsoft Sql Server Analysis Services 2008

A Detailed Look at Data Processing Extensions

Teach yourself how to build, manage, and access SQL Server 2008 reports—one step at a time. Whether you 're a report developer, IT administrator, or business user, this sequential, learn-by-doing tutorial shows you how to deliver the business intelligence information your organization needs. Discover how to: Install and configure Reporting Services Put Report Builder and Report Designer tools to work Create interactive, online reports that enable users to sort and filter data Add charts and gauges to present data visually Deploy reports to Microsoft Office SharePoint Server Monitor server performance and help secure content Use subscriptions to distribute reports via e-mail Build ad hoc reports and extend them with custom code CD features: Practice exercises and code samples 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.

Teach yourself SQL Server 2008—one step at a time. Get the practical guidance you need to build database solutions that solve real-world business problems. Learn to integrate SQL Server data in your applications, write queries, develop reports, and

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employ powerful business intelligence systems. Discover how to: Install and work with core components and tools Create tables and index structures Manipulate and retrieve data Secure, manage, back up, and recover databases Apply tuning plus optimization techniques to generate high-performing database applications Optimize availability through clustering, database mirroring, and log shipping Tap business intelligence tools—Reporting, Analysis, and Integration Services CD features: Practice exercises and code samples 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.

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.

Applied Microsoft Business Intelligence  
The BISM Tabular Model

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Professional Microsoft SQL Server 2016 Reporting Services and Mobile Reports  
Smart Business Intelligence Solutions with Microsoft SQL Server 2008  
Practical Mdx Queries

Practical MDX Queries: For Microsoft SQL Server Analysis Services  
2008 McGraw Hill Professional

Design, create and manage robust Power BI solutions to gain meaningful business insights Key Features Master all the dashboarding and reporting features of Microsoft Power BI Combine data from multiple sources, create stunning visualizations and publish your reports across multiple platforms A comprehensive guide with real-world use cases and examples demonstrating how you can get the best out of Microsoft Power BI Book Description This book is intended for business intelligence professionals responsible for the design and development of Power BI content as well as managers, architects and administrators who oversee Power BI projects and deployments. The chapters flow from the planning of a Power BI project through the development and distribution of content to the administration of Power BI for an organization. BI developers will learn how to create sustainable and impactful Power BI datasets, reports, and dashboards. This includes connecting to data sources, shaping and enhancing source data, and developing an analytical data model. Additionally,

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top report and dashboard design practices are described using features such as Bookmarks and the Power KPI visual. BI managers will learn how Power BI's tools work together such as with the On-premises data gateway and how content can be staged and securely distributed via Apps. Additionally, both the Power BI Report Server and Power BI Premium are reviewed. By the end of this book, you will be confident in creating effective charts, tables, reports or dashboards for any kind of data using the tools and techniques in Microsoft PowerBI. What you will learn

- Build efficient data retrieval and transformation processes with the Power Query M Language
- Design scalable, user-friendly DirectQuery and Import Data Models
- Develop visually rich, immersive, and interactive reports and dashboards
- Maintain version control and stage deployments across development, test, and production environments
- Manage and monitor the Power BI Service and the On-premises data gateway
- Develop a fully on-premise solution with the Power BI Report Server
- Scale up a Power BI solution via Power BI Premium capacity and migration to Azure Analysis Services or SQL Server Analysis Services

Who this book is for Business Intelligence professionals and existing Power BI users looking to master Power BI for all their data visualization and dashboarding needs will find this book to be useful. While understanding of the basic BI concepts is required, some exposure to Microsoft Power BI will be helpful.

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A hands-on tutorial on building and using multidimensional data warehouses. The SQL query language is used to access data in most simple databases. But for multidimensional (or OLAP) data warehouses, Microsoft developed MDX. The MDX query language has become essential know-how for developers and users alike, whether for data warehouses or for budgeting and planning systems. This tutorial/reference guide shows developers and users how to use MDX to access and analyze data for decision support. Both the standard language and Microsoft's own extensive additions to MDX are explained. The authors provide practical examples of MDX in use, and explain both standard usage and more advanced techniques, such as optimization, cube design, and Pareto analysis. Finally, the appendices provide a handy reference guide that users can rely on. Prepare for Microsoft Exam 70-768—and help demonstrate your real-world mastery of Business Intelligence (BI) solutions development with SQL Server 2016 Analysis Services (SSAS), including modeling and queries. Designed for experienced IT professionals ready to advance their status, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives:

- Design a multidimensional BI semantic model
- Design a tabular BI semantic model
- Develop queries using Multidimensional Expressions (MDX) and Data Analysis

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Expressions (DAX) • Configure and maintain SSAS This Microsoft Exam Ref: • Organizes its coverage by exam objectives • Features strategic, what-if scenarios to challenge you • Assumes you are a database or BI professional with experience creating models, writing MDX or DAX queries, and using SSAS Programming Microsoft SQL Server 2008

Exam Ref 70-778 Analyzing and Visualizing Data by Using Microsoft Power BI The Definitive Guide to DAX

Design and query tabular and multi-dimensional models using Microsoft's SQL Server Analysis Services

Practical PowerPivot & DAX Formulas for Excel 2010

Explore the impressive storage and analytic tools available with the in-cloud and on-premises versions of Microsoft SQL Server 2019. Key FeaturesGain insights into what's new in SQL Server 2019Understand use cases and customer scenarios that can be implemented with SQL Server 2019Discover new cross-platform tools that simplify management and analysisBook Description Microsoft SQL Server comes equipped with industry-leading features and the best online transaction processing capabilities. If you are looking to

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work with data processing and management, getting up to speed with Microsoft Server 2019 is key. Introducing SQL Server 2019 takes you through the latest features in SQL Server 2019 and their importance. You will learn to unlock faster querying speeds and understand how to leverage the new and improved security features to build robust data management solutions. Further chapters will assist you with integrating, managing, and analyzing all data, including relational, NoSQL, and unstructured big data using SQL Server 2019. Dedicated sections in the book will also demonstrate how you can use SQL Server 2019 to leverage data processing platforms, such as Apache Hadoop and Spark, and containerization technologies like Docker and Kubernetes to control your data and efficiently monitor it. By the end of this book, you'll be well versed with all the features of Microsoft SQL Server 2019 and understand how to use them confidently to build robust data management solutions. What you will learn

Build a custom container image with a Dockerfile  
Deploy and run the SQL Server 2019 container

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imageUnderstand how to use SQL server on LinuxMigrate existing paginated reports to Power BI Report ServerLearn to query Hadoop Distributed File System (HDFS) data using Azure Data StudioUnderstand the benefits of In-Memory OLTPWho this book is for This book is for database administrators, architects, big data engineers, or anyone who has experience with SQL Server and wants to explore and implement the new features in SQL Server 2019. Basic working knowledge of SQL Server and relational database management system (RDBMS) is required.

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



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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 Teach yourself the Multidimensional Expressions (MDX) query language—one step at a time. With this practical, learn-by-doing tutorial, you'll build the core techniques for using MDX with Analysis Services to deliver high-performance business intelligence solutions. Discover how to: Construct and execute MDX queries Work with tuples, sets, and expressions Build complex sets to retrieve the exact data users need Perform aggregation functions and navigate data hierarchies Assemble time-based business metrics Customize

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an Analysis Services cube through the MDX script Implement dynamic security to control data access Develop MDX-driven reports in SQL Server Reporting Services CD features:

Practice exercises Database and code samples Fully searchable eBook

300+ ready-to-use, powerful MDX queries This hands-on guide shows you how to use Multi-Dimensional Expressions (MDX) to extract business intelligence from multi-dimensional cubes.

Practical MDX Queries contains more than 300 downloadable

MDX queries that can be applied across a wide variety of business intelligence-related problems. The use, syntax, and results of each query are described in detail. The book

emphasizes MDX for use with SSAS within SSMS, but the techniques and queries also apply to SSRS, SSIS, MDX in SQL, MDX in DMX, MDX in XMLA, WinForms, WebForms,

PerformancePoint Server, ProClarity, and many third-party applications. Work with dimensions, hierarchies, levels, and members Navigate both horizontally and vertically across

dimensions and hierarchies Sort the results of your queries

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Access subsets of dimension members and measure values using the Where clause and Filter function Use MDX query calculations Extract and manipulate dates and times Produce totals, subtotals, and changes cross time using aggregate and other functions Create, visualize, and manipulate sets Work with perspectives, subselects, and subcubes Display and hide empty cells Use, modify, format, and create Key Performance Indicators (KPIs) Deliver MDX query results to end users

Practical MDX Queries

Introducing Microsoft SQL Server 2019

SQL Server 2019 Administration Inside Out

For Microsoft SQL Server Analysis Services 2008

M Is for (Data) Monkey

More than 80 recipes for enriching your Business Intelligence solutions with high-performance MDX calculations and flexible MDX queries in this book and eBook.

Your essential guide to key programming features in Microsoft SQL Server 2012 Take your database programming skills to a new level—and build customized applications using the developer tools introduced with SQL Server 2012. This hands-on reference

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shows you how to design, test, and deploy SQL Server databases through tutorials, practical examples, and code samples. If you ' re an experienced SQL Server developer, this book is a must-read for learning how to design and build effective SQL Server 2012 applications. Discover how to: Build and deploy databases using the SQL Server Data Tools IDE Query and manipulate complex data with powerful Transact-SQL enhancements Integrate non-relational features, including native file streaming and geospatial data types Consume data with Microsoft ADO.NET, LINQ, and Entity Framework Deliver data using Windows Communication Foundation (WCF) Data Services and WCF RIA Services Move your database to the cloud with Windows Azure SQL Database Develop Windows Phone cloud applications using SQL Data Sync Use SQL Server BI components, including xVelocity in-memory technologies Power Query for Power BI and Excel is a book for people who are tired of copying and pasting data into Excel worksheets. Power Query, part of the Microsoft Power BI suite, is a tool that automates the process of getting data into Excel and will save you hours of dull, repetitive, and error-prone work! Power Query makes it easy to extract data from many different data sources, filter that data, aggregate it, clean it and perform calculations on it, finally loading that data into either your worksheet or directly into the new Excel 2013 Data Model used by Power Pivot. This concise, practical book provides a complete guide to Power Query and how to use it to solve all of your Excel data-loading problems. Power Query for Power BI and Excel goes well beyond the surface of

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what Power Query can do. The book goes deep into the underlying M language, showing you how to do amazing things that aren't going to be possible from just the GUI interface that is covered in most other books. You'll have full command of the GUI, and you'll be able to drop into the M language to go beyond what the GUI provides. The depth in this book makes it a must-have item for anyone who is pushing Power BI and Excel to their limits in the pursuit of business intelligence from data analysis. Teaches the basics of using Power Query to load data into Excel Helps you solve common, data-related problems with Power Query Shows how to write your own solutions in the powerful M language

Design and implement fast, scalable and maintainable cubes with Microsoft SQL Server 2008 Analysis Services with this book and eBook

Microsoft SQL Server 2008 Reporting Services Step by Step

Practical DMX Queries for Microsoft SQL Server Analysis Services 2008

Reliability, scalability, and security both on premises and in the cloud

Microsoft SQL Server 2012 Analysis Services

Professional Microsoft SQL Server Analysis Services 2008 with MDX

**Practical MDX Queries shows how to use Multi-Dimensional Expressions (MDX) to extract business intelligence from multi-dimensional cubes within Microsoft's Business Intelligence stack. The book's approach is solutions-based and hands-on, containing more than 300 downloadable MDX queries that can be immediately**

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applied across a wide variety of business intelligence-related problems. It begins with fundamental principles and simple queries and rapidly progresses to complex and sophisticated queries. The book is structured as follows: Query Overview: Introduction and description of query and its use Syntax: Complete syntax Result: Illustrates the data returned from the Analysis Services cube by the query Analysis: Analysis of the results and tips for customization Market\_Desc: · Data Warehouse Developers· Database· Business Analysts Special Features: · The current first edition has sold more than 9,000 copies, at \$49.99; it is far and away the leading tutorial on the MDX language.· The market for MDX tools is growing fast, and now includes Microsoft, Hyperion, SAS, SAP, and other vendors.· The new edition is more than 60% new and revised, with 200 more pages.· The authors are well-known authorities on MDX, and include an insider on the Microsoft Analysis Services team.· Wiley is the leading publisher of books on data warehousing and business intelligence. About The Book: MDX Solutions is both a tutorial and a reference guide to the MDX query language. It shows data warehouse developers what they need to know to build effective multidimensional data warehouses. And it teaches users what they need to know to access and analyze data to make better business decisions.The Second Edition provides 200 additional pages of new material covering both changes in the MDX language itself as well as major changes in its implementation with the

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latest software releases of Microsoft SQL Server Analysis Services 2005 and Hyperion Essbase. After a brief overview of the MDX language, the authors move directly to the tutorial, providing practical examples of MDX in use. They show various techniques using MDX to access data and calculate results. They also cover more advanced techniques, like aggregation, query templates, and MDX optimization. The appendixes provide a handy reference guide that users can refer to after completing the tutorial. The companion Website includes sample MDX code with sample databases which can be used to practice what they've learned.

SQL Server 2012 is packed with powerful new Analysis Services features that will dramatically enhance business intelligence. Written by key members to Microsoft's product team, this book shows you how to apply these new capabilities to create sophisticated BI solutions. In order to accomplish this, you'll learn how to design, build, and work with the multidimensional and tabular Business Intelligence Semantic Model (BISM) using SQL Server Analysis Services. You'll then use MDX and DAX to query those databases so you can provide advanced analysis of business problems and build end-to-end solutions to meet your needs.

Prepare for Microsoft Exam 70-778—and help demonstrate your real-world mastery of Power BI data analysis and visualization. Designed for experienced BI

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professionals and data analysts ready to advance their status, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: Consume and transform data by using Power BI Desktop Model and visualize data Configure dashboards, reports, and apps in the Power BI Service This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assumes you have experience consuming and transforming data, modeling and visualizing data, and configuring dashboards using Excel and Power BI

**A Guide to the M Language in Excel Power Query**

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

**MDX with Microsoft SQL Server 2016 Analysis Services Cookbook**

**Microsoft SQL Server 2008 Step by Step**

**Business intelligence with Microsoft Excel, SQL Server Analysis Services, and Power BI**

**Get up to speed with the new features added to Microsoft SQL Server 2019**

**Analysis Services and create models to support your business Key Features Explore tips and tricks to design, develop, and optimize end-to-end data analytics solutions using Microsoft's technologies Learn tabular modeling and multi-dimensional cube design development using real-world examples Implement Analysis Services to help you make productive business decisions Book Description SQL Server Analysis**



**Services (SSAS) continues to be a leading enterprise-scale toolset, enabling customers to deliver data and analytics across large datasets with great performance. This book will help you understand MS SQL Server 2019's new features and improvements, especially when it comes to SSAS. First, you'll cover a quick overview of SQL Server 2019, learn how to choose the right analytical model to use, and understand their key differences. You'll then explore how to create a multi-dimensional model with SSAS and expand on that model with MDX. Next, you'll create and deploy a tabular model using Microsoft Visual Studio and Management Studio. You'll learn when and how to use both tabular and multi-dimensional model types, how to deploy and configure your servers to support them, and design principles that are relevant to each model. The book comes packed with tips and tricks to build measures, optimize your design, and interact with models using Excel and Power BI. All this will help you visualize data to gain useful insights and make better decisions. Finally, you'll discover practices and tools for securing and maintaining your models once they are deployed. By the end of this MS SQL Server book, you'll be able to choose the right model and build and deploy it to support the analytical needs of your business. What you will learn**

**Determine the best analytical model using SSAS**  
**Cover the core aspects involved in MDX, including writing your first query**  
**Implement calculated tables and calculation groups (new in version 2019) in DAX**  
**Create and deploy tabular and multi-dimensional models on SQL 2019**  
**Connect and create data visualizations using Excel and Power BI**  
**Implement row-level and other data security methods**

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**with tabular and multi-dimensional models** Explore essential concepts and techniques to scale, manage, and optimize your SSAS solutions Who this book is for This Microsoft SQL Server book is for BI professionals and data analysts who are looking for a practical guide to creating and maintaining tabular and multi-dimensional models using SQL Server 2019 Analysis Services. A basic working knowledge of BI solutions such as Power BI and database querying is required. This updated and expanded second edition of the Practical MDX Queries: For Microsoft SQL Server Analysis Services 2008 provides a user-friendly introduction to the subject Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business.

A practical cookbook packed with recipes to help developers produce data cubes as quickly as possible by following step by step instructions, rather than explaining data mining concepts with SSAS. If you are a BI or ETL developer using SQL Server Analysis services to build OLAP cubes, this book is ideal for you. Prior knowledge of relational databases and experience with Excel as well as SQL development is required.

**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**

**MDX SOLUTIONS WITH MS SQL SERVER ANALYSIS SERVICES**

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

**MDX with Microsoft SQL Server 2008 R2 Analysis Services Cookbook**

**MDX Solutions**

**Pro SQL Server 2012 BI Solutions**

**250 + ready-to-use, powerful DAX formulas Develop effective business intelligence (BI) solutions and drive faster, better decision making across your enterprise with help from an experienced database consultant and**

**trainer. Through clear explanations, screenshots, and examples, Practical PowerPivot & DAX Formulas for Excel 2010 shows you how to extract actionable insights from vast amounts of corporate data. More than 250 downloadable DAX formulas plus valuable appendixes covering SQL, MDX, and DMX query design are included in this hands-on guide. Build pivot tables and charts with PowerPivot for Excel Import information from Access, Excel, data feeds, SQL Server, and other sources Organize and format BI reports using the PowerPivot Field List Write DAX formulas that filter, sort, average, and denormalize data Construct complex DAX formulas from statistical, math, and date functions Compare current and past performance using date and time intelligence Handle non-additive numbers, non-numeric values, and running totals Develop complete self-service and sharable BI solutions in a few minutes Download the source code from [www.mhprofessional.com/computingdownload](http://www.mhprofessional.com/computingdownload)**

**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,**

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**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**

**An easy-to-follow guide full of hands on examples of real-world Analysis Services cube development tasks. Each topic is explained and placed in context, and for the more inquisitive reader, there also more in-depth details of the concepts used. If you are an Analysis Services cube designer wishing to learn more advanced topic and best practices for cube design, this book is for you. You are expected to have some prior experience with Analysis Services cube development.**

**Extend your programming skills with a comprehensive study of the key features of SQL Server 2008. Delve into the new core capabilities, get practical guidance from expert developers, and put their code samples to work. This is a must-read for Microsoft .NET and SQL Server developers who work with data access—at the database, business logic, or presentation levels. Discover how to: Query complex data with powerful Transact-SQL enhancements Use new, non-relational features: hierarchical tables, native file streaming, and geospatial capabilities Exploit XML inside**

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**the database to design XML-aware applications Consume and deliver your data using Microsoft LINQ, Entity Framework, and data binding Implement database-level encryption and server auditing Build and maintain data warehouses Use Microsoft Excel to build front ends for OLAP cubes, and MDX to query them Integrate data mining into applications quickly and effectively. Get code samples on the Web.**

**Microsoft SQL Server 2008 MDX Step by Step**

**Practical MDX Queries: For Microsoft SQL Server Analysis Services 2008**

**Mastering Microsoft Power BI**

**Expert techniques for effective data analytics and 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

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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 Conquer SQL Server 2019 administration—from the inside out Dive into SQL Server 2019 administration—and really put your SQL Server DBA expertise to work. This supremely organized reference packs hundreds of time-saving solutions, tips, and workarounds—all you need to plan, implement, manage, and secure SQL Server 2019 in any production environment: on-premises, cloud, or hybrid. Six experts thoroughly tour DBA capabilities available in SQL Server 2019 Database Engine, SQL Server Data Tools, SQL Server Management Studio, PowerShell, and Azure Portal. You'll find extensive new coverage of Azure SQL, big data clusters, PolyBase, data protection, automation, and more. Discover how experts tackle today's essential tasks—and challenge yourself to new levels of mastery. Explore SQL Server 2019's toolset, including the improved SQL

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Server Management Studio, Azure Data Studio, and Configuration Manager Design, implement, manage, and govern on-premises, hybrid, or Azure database infrastructures Install and configure SQL Server on Windows and Linux Master modern maintenance and monitoring with extended events, Resource Governor, and the SQL Assessment API Automate tasks with maintenance plans, PowerShell, Policy-Based Management, and more Plan and manage data recovery, including hybrid backup/restore, Azure SQL Database recovery, and geo-replication Use availability groups for high availability and disaster recovery Protect data with Transparent Data Encryption, Always Encrypted, new Certificate Management capabilities, and other advances Optimize databases with SQL Server 2019 ' s advanced performance and indexing features Provision and operate Azure SQL Database and its managed instances Move SQL Server workloads to Azure: planning, testing, migration, and post-migration Shows users and developers how to use MDX to effectively to provide relevant business information.

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



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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.

Fast Track to MDX

Introducing Microsoft SQL Server 2016

Expert Cube Development with Microsoft SQL Server 2008 Analysis Services

SQL Server Analysis Services 2012 Cube Development Cookbook

Programming Microsoft SQL Server 2012

With Microsoft SQL Server 2016, a variety of new features and enhancements to the data platform deliver breakthrough performance, advanced security, and richer, integrated reporting and analytics capabilities. In this ebook, we introduce new security features: Always Encrypted, Row-Level Security, and dynamic data masking; discuss

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enhancements that enable you to better manage performance and storage: TemDB configuration, query store, and Stretch Database; review several improvements to Reporting Services; and also describe AlwaysOn Availability Groups, tabular enhancements, and R integration.

250+ Ready-to-Use, Powerful DMX Queries Transform data mining model information into actionable business intelligence using the Data Mining Extensions (DMX) language. Practical DMX Queries for Microsoft SQL Server Analysis Services 2008 contains more than 250 downloadable DMX queries you can use to extract and visualize data. The application, syntax, and results of each query are described in detail. The book emphasizes DMX for use in SSMS against SSAS, but the queries also apply to SSRS, SSIS, DMX in SQL, WinForms, WebForms, and many other applications. Techniques for generating DMX syntax from graphical tools are also demonstrated in this valuable resource. View cases within data mining structures and models using DMX Case queries Examine the content of a data mining model with DMX Content queries Perform DMX Prediction queries based on the Decision Trees algorithm and the Time Series algorithm Run Prediction and Cluster queries based on the Clustering algorithm Execute Prediction queries with Association and Sequence Clustering algorithms Use DMX DDL queries to create, alter, drop, back up, and restore data mining objects Display various parameters for each algorithm with Schema queries Examine the values of discrete, discretized, and continuous structure columns

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using Column queries Use graphical interfaces to generate Prediction, Content, Cluster, and DDL queries Deliver DMX query results to end users Download the source code from [www.mhprofessional.com/computingdownload](http://www.mhprofessional.com/computingdownload)

Analyze tabular data using the BI Semantic Model (BISM) in SQL Server 2012 Analysis Services--and discover a simpler method for creating corporate-level BI solutions. Led by three BI experts, you'll learn how to build, deploy, and query a BISM tabular model with step-by-step guides, examples, and best practices. This hands-on book shows you how the tabular model's in-memory database enables you to perform rapid analytics--whether you're a professional BI developer new to Analysis Services or already familiar with its multidimensional model --

Power Query is one component of the Power BI (Business Intelligence) product from Microsoft, and "M" is the name of the programming language created by it. As more business intelligence pros begin using Power Pivot, they find that they do not have the Excel skills to clean the data in Excel; Power Query solves this problem. This book shows how to use the Power Query tool to get difficult data sets into both Excel and Power Pivot, and is solely devoted to Power Query dashboarding and reporting.

Expert Cube Development with SSAS Multidimensional Models

Hands-On SQL Server 2019 Analysis Services

Practical SQL Queries for Microsoft SQL Server 2008 R2

Power Query for Power BI and Excel

Exam Ref 70-768 Developing SQL Data Models

**This comprehensive and authoritative guide will teach you the DAX language for business intelligence, data modeling, and analytics. Leading Microsoft BI consultants Marco Russo and Alberto Ferrari help you master everything from table functions through advanced code and model optimization. You'll learn exactly what happens under the hood when you run a DAX expression, how DAX behaves differently from other languages, and how to use this knowledge to write fast, robust code. If you want to leverage all of DAX's remarkable power and flexibility, this no-compromise "deep dive" is exactly what you need. Perform powerful data analysis with DAX for Microsoft SQL Server Analysis Services, Excel, and Power BI Master core DAX concepts, including calculated columns, measures, and error handling Understand evaluation contexts and the CALCULATE and CALCULATETABLE functions Perform time-based calculations: YTD, MTD, previous year, working days, and more Work with expanded tables, complex functions, and elaborate DAX expressions Perform calculations over**

**hierarchies, including parent/child hierarchies Use DAX to express diverse and unusual relationships Measure DAX query performance with SQL Server Profiler and DAX Studio**  
**400+ ready-to-use, powerful SQL queries Learn powerful techniques for surfacing and delivering actionable business intelligence using SQL. Practical SQL Queries for Microsoft SQL Server 2008 R2 contains more than 400 downloadable SQL queries you can use to extract meaningful insights from large amounts of data. The application, syntax, and results of each query are described in detail. The book emphasizes SQL for use in SSMS, but the queries also apply to SSRS, WinForms, WebForms, and many other applications. Enter, maintain, and retrieve database data Search records using the Where clause Sort SQL query results with the Order By clause Create tables and perform joins on tables Perform set operations using Union, Intersect, and Except Group data and produce totals with the Group By clause Manipulate and transform data using built-in functions Create reusable views and user-defined functions Use stored procedures to change SQL dynamically**

**based on conditional factors Create, maintain, and secure database objects with DDL and DCL Deliver SQL query results to end users**

**Over 70 practical recipes to analyze multi-dimensional data in SQL Server 2016 Analysis Services cubes About This Book Updated for SQL Server 2016, this book helps you take advantage of the new MDX commands and the new features introduced in SSAS Perform time-related, context-aware, and business related-calculations with ease to enrich your Business Intelligence solutions Collection of techniques to write flexible and high performing MDX queries in SSAS with carefully structured examples Who This Book Is For This book is for anyone who has been involved in working with multidimensional data. If you are a multidimensional cube developer, a multidimensional database administrator, or a report developer who writes MDX queries to access multidimensional cube, this book will help you. If you are a power cube user or an experienced business analyst, you will also find this book invaluable in your data analysis. This book**

**is for you are interested in doing more data analysis so that the management can make timely and accurate business decisions. What You Will Learn Grasp the fundamental MDX concepts, features, and techniques Work with sets Work with Time dimension and create time-aware calculations Make analytical reports compact, concise, and efficient Navigate cubes Master MDX for reporting with Reporting Services (new) Perform business analytics Design efficient cubes and efficient MDX queries Create metadata-driven calculations (new) Capture MDX queries and many other techniques In Detail If you're often faced with MDX challenges, this is a book for you. It will teach you how to solve various real-world business requirements using MDX queries and calculations. Examples in the book introduce an idea or a problem and then guide you through the process of implementing the solution in a step-by-step manner, inform you about the best practices and offer a deep knowledge in terms of how the solution works. Recipes are organized by chapters, each covering a single topic. They start slowly and logically progress to more advanced**

**techniques. In case of complexity, things are broken down. Instead of one, there are series of recipes built one on top of another. This way you are able to see intermediate results and debug potential errors faster. Finally, the cookbook format is here to help you quickly identify the topic of interest and in it a wide range of practical solutions, that is - MDX recipes for your success. Style and approach This book is written in a cookbook format, where you can browse through and look for solutions to a particular problem in one place. Each recipe is short, to the point and grouped by relevancy. All the recipes are sequenced in a logical progression; you will be able to build up your understanding of the topic incrementally.**

**With Microsoft SQL Server Analysis Services**

**Mission-Critical Applications, Deeper Insights, Hyperscale  
Cloud**

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