

# Access PDF MDX Solutions: With Microsoft SQL Server Analysis Services

## MDX Solutions: With Microsoft SQL Server Analysis Services

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

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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

Leverage the integration of SQL Server and Office for more effective BI

Applied Microsoft Business

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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

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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

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cohesively for more effective enterprisesolutions Search, analyze, and visualize data more efficiently andcompletely Develop flexible and scalable tabular and multidimensionalmodels Monitor performance, build a BI portal, and deploy and managethe BI Solution The next wave of business intelligence, Self-Service BI, seeks to meet the demands of powerful hardware and shorter decision time frames. This book introduces PowerPivot for Excel and SharePoint,

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showing you how to use this innovative software for self-service analytics and reporting. Authored by key members of the Microsoft team that built the product, this book will guide you through the use of in-memory BI server technology, data analytics eXpressions, and report gallery. The book also discusses how to deploy and manage sandbox servers, and a companion website provides sample reports and applications. Shows users and developers how to use MDX to effectively to provide

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relevant business  
information.

With Microsoft SQL Server  
Analysis Services 2005 and  
Hyperion Essbase

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

SQL Server Analysis  
Services Succinctly  
Professional Microsoft SQL  
Server Analysis Services  
2008 with MDX

**This book will expand your  
ability to deliver  
meaningful, performant  
solutions to your  
organization. You'll learn  
how to use an analytical**

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engine for decision making and business analytics. With the help of this practical guide, you'll also be able to work confidently with data and analytics.

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



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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 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

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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

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

"The authors merge their  
deep experience in OLAP to

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produce a roadmap to success with Microsoft SQL Server OLAP Services." -Bill Baker, Microsoft Corporation

Microsoft(r) OLAP Solutions OLAP enables users to create, change, and access information from multi-dimensional data warehouses almost instantaneously. Microsoft has unleashed the power of OLAP in one of its most popular products, SQL Server 7, now distributed with its OLAP Services component. This guide to mastering Microsoft OLAP Services begins with a practical introduction to OLAP server concepts and architecture. It then progresses by logical, skill-

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building steps through a range of crucial topics in maintenance, database optimization, and advanced database design. The authors include in-depth case studies illustrating how to build OLAP applications, as well as instructions on how to construct working OLAP applications, including a healthcare benefits analysis application and a grocery store frequent shopper analysis application. Topics covered in detail include: \*

- \* The storage and operational architecture of Microsoft OLAP server
- \* Using the MDX language with Microsoft OLAP server
- \* Using Microsoft OLAP server to access and

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update data \* Specifying  
calculations \* Optimizing  
server performance \*

Securing the server On the  
CD-ROM you'll find: \* All  
the sample applications and  
databases described in the  
book \* Additional software  
for working with Microsoft  
OLAP server Wiley Computer  
Publishing Timely.

Practical. Reliable. Visit  
our Web site at

[www.wiley.com/compbooks/  
Data Mining with Microsoft  
SQL Server 2008](http://www.wiley.com/compbooks/Data Mining with Microsoft SQL Server 2008)

Microsoft SQL Server 2008  
MDX Step by Step

Microsoft SQL Server 2012  
Analysis Services

Expert Cube Development with  
SSAS Multidimensional Models

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Harness the powerful new SQL Server 2012 Microsoft SQL Server 2012 is the most significant update to this product since 2005, and it may change how database administrators and developers perform many aspects of their jobs. If you're a database administrator or developer, Microsoft SQL Server 2012 Bible teaches you everything you need to take full advantage of this major release. This detailed guide not only covers all the new features of SQL Server 2012, it also shows you step by step how to develop top-notch SQL Server databases and new data connections and

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keep your databases performing at peak. The book is crammed with specific examples, sample code, and a host of tips, workarounds, and best practices. In addition, downloadable code is available from the book's companion web site, which you can use to jumpstart your own projects. Serves as an authoritative guide to Microsoft's SQL Server 2012 for database administrators and developers. Covers all the software's new features and capabilities, including SQL Azure for cloud computing, enhancements to client connectivity, and new functionality that ensures high-

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availability of mission-critical applications Explains major new changes to the SQL Server Business Intelligence tools, such as Integration, Reporting, and Analysis Services Demonstrates tasks both graphically and in SQL code to enhance your learning Provides source code from the companion web site, which you can use as a basis for your own projects Explores tips, smart workarounds, and best practices to help you on the job Get thoroughly up to speed on SQL Server 2012 with Microsoft SQL Server 2012 Bible.

A hands-on tutorial on building and using multidimensional data



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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

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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.

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

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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

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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 As a practical tutorial for Analysis Services, get started with developing cubes. "Getting Started with SQL Server 2012 Cube Development" walks you through the basics, working with SSAS to build cubes and get them up and running. Written for SQL Server developers who have not previously worked with Analysis Services. It is assumed that you have experience with

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relational databases, but no prior knowledge of cube development is required. You need SQL Server 2012 in order to follow along with the exercises in this book.

MDX with Microsoft SQL Server  
2016 Analysis Services  
Cookbook - Third Edition

Professional Microsoft SQL  
Server 2016 Reporting Services  
and Mobile Reports

Hands-On SQL Server 2019  
Analysis Services

**Build agile and  
responsive business  
intelligence solutions  
Create a semantic model**

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**and analyze data using the tabular model in SQL Server 2016 Analysis Services to create corporate-level business intelligence (BI) solutions. Led by two BI experts, you will learn how to build, deploy, and query a tabular model by following detailed examples and best practices. This hands-on book shows you how to use the tabular model's in-memory database to perform rapid analytics—whether you are new to Analysis**

**Services or already familiar with its multidimensional model. Discover how to:**

- **Determine when a tabular or multidimensional model is right for your project**
- **Build a tabular model using SQL Server Data Tools in Microsoft Visual Studio 2015**
- **Integrate data from multiple sources into a single, coherent view of company information**
- **Choose a data-modeling technique that meets your organization's performance and**

**usability requirements • Implement security by establishing administrative and data user roles • Define and implement partitioning strategies to reduce processing time • Use Tabular Model Scripting Language (TMSL) to execute and automate administrative tasks • Optimize your data model to reduce the memory footprint for VertiPaq • Choose between in-memory (VertiPaq) and pass-through (DirectQuery) engines for**



**tabular models • Select the proper hardware and virtualization configurations • Deploy and manipulate tabular models from C# and PowerShell using AMO and TOM libraries Get code samples, including complete apps, at: <https://aka.ms/tabular/downloads> About This Book • For BI professionals who are new to SQL Server 2016 Analysis Services or already familiar with previous versions of the product, and who want the best reference for**

**creating and maintaining  
tabular models. •**

**Assumes basic familiarity  
with database design and  
business analytics  
concepts.**

**Design and implement  
fast, scalable and  
maintainable cubes with  
Microsoft SQL Server  
2008 Analysis Services  
with this book and eBook  
This book is written in a  
recipe-based style  
packed full of practical  
tips and techniques to  
help you analyse  
multidimensional data  
stored in SSAS 2012**

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**cubes. If you need to master MDX queries in SSAS, then this book is for you! If you are a Microsoft SQL Server Analysis Services developer and want to improve your solutions using MDX, then this book is for you. This book is also an essential resource for report developers who need to access the multidimensional cubes through the MDX language. The book assumes you have some basic working knowledge**

**of MDX and a basic understanding of dimensional modelling and cube design. The Rational Guide to Microsoft Office Business Scorecard Manager 2005 clearly and comprehensively describes how to apply the power of BSM to your performance management strategy. This book covers all the basics of performance management theory, BSM installation, deployment, and management. Key concepts are discussed in**

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**depth, including BSM  
Builder, Elements, KPIs,  
Scorecards, Report  
Views, and more.  
Advanced topics include  
collaboration with  
Windows SharePoint  
Services, security,  
scoring, and  
customization using MDX  
(Multi-Dimensional  
eXpressions). The  
authors have included a  
book-length case study  
that illustrates how these  
concepts work in  
practice. Technical  
Accuracy is assured by  
Ian Tien, Program**

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Analysis Services

**Manager, Office Business  
Applications, Microsoft  
Corporation.**

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

**Professional SQL Server  
Analysis Services 2005  
with MDX**

**Concepts and Excerpts  
from MDX Solutions with  
Microsoft SQL Server  
Analysis Services  
SAS OLAP Server**

*A complete guide to Pentaho  
Kettle, the Pentaho Data  
Integration toolset for ETL This  
practical book is a complete guide*

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*to installing, configuring, and managing Pentaho Kettle. If you're a database administrator or developer, you'll first get up to speed on Kettle basics and how to apply Kettle to create ETL solutions—before progressing to specialized concepts such as clustering, extensibility, and data vault models. Learn how to design and build every phase of an ETL solution. Shows developers and database administrators how to use the open-source Pentaho Kettle for enterprise-level ETL processes (Extracting, Transforming, and Loading data) Assumes no prior knowledge of Kettle or ETL, and brings beginners thoroughly up to speed at their*

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*own pace Explains how to get Kettle solutions up and running, then follows the 34 ETL subsystems model, as created by the Kimball Group, to explore the entire ETL lifecycle, including all aspects of data warehousing with Kettle Goes beyond routine tasks to explore how to extend Kettle and scale Kettle solutions using a distributed “cloud” Get the most out of Pentaho Kettle and your data warehousing with this detailed guide—from simple single table data migration to complex multisystem clustered data integration tasks.*

*Analyze tabular data using the BI Semantic Model (BISM) in SQL Server 2012 Analysis*



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*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 --*

*A Detailed Look at Data Processing  
Extensions*

*MDX Solutions With Microsoft SQL  
Server Analysis Services 2005 and  
Hyperion Essbase John Wiley &*

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*The BISM Tabular Model*

*With Microsoft SQL Server Analysis  
Services*

*Getting Started with SQL Server*

*2012 Cube Development*

*Power Query for Power BI and  
Excel*

80 recipes for enriching your Business Intelligence solutions with high-performance MDX calculations and flexible MDX queries Enrich your BI solutions by implementing best practice MDX calculations Master a wide range of time-related, context-aware, and business-related calculations Enhance your solutions by combining MDX with utility dimensions Become skilled in making reports concise Learn

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how to optimize, dissect, and debug your MDX calculations  
Maximize your learning with detailed explanations following each solution Packed with practical, hands-on cookbook recipes, illustrating the techniques to enrich your Business Intelligence solutions In Detail Microsoft SQL Server is an enterprise database platform that contains a multitude of technologies, Analysis Services being one of them. SQL Server Analysis Services (SSAS) provides OLAP and data mining capabilities and allows users to analyze multidimensional data stored in cubes using the MDX query language. This cookbook contains over 80 practical, task-based recipes that show how Microsoft

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SQL Server 2008 R2 Analysis Services solutions can be taken further by enriching them with high-performance MDX calculations and flexible MDX queries. Packed with immediately usable, real-world recipes, the book starts with elementary techniques that lay the foundation for designing further MDX calculations and queries. Here you will find topics such as iterations on a set, Boolean logic, and dissecting and optimizing MDX calculations. In the first half of the book you will learn how to efficiently work with time, strings, metadata, calculated members and sets in general, and how to implement MDX solutions that are appropriate in a particular context: a time-aware calculation,

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a concise report, a calculation relative to another. You will also learn how to implement various types of conditional formatting, how to perform typical MDX calculations like ranks, percentages and average

Harness the power of SQL Server, Microsoft's high-performance database and data analysis software package, by accessing everything you need to know in Microsoft SQL Server 2008 Bible. Learn the best practices, tips, and tricks from this comprehensive tutorial and reference, which includes specific examples and sample code, with nearly every task demonstrated in both a graphical and SQL code method. Understand how to develop SQL Server databases and data

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connections, how to administer the SQL Server and keep databases performing optimally, and how to navigate all the new features of the 2008 release.

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

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metrics Customize 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

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

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some prior experience with  
Analysis Services cube  
development.

MDX Solutions

Expert Cube Development with  
Microsoft SQL Server 2008

Analysis Services

MDX with SSAS 2012 Cookbook

Professional Microsoft SQL Server

2012 Analysis Services with MDX  
and DAX

**Understand how to use the  
new features of Microsoft SQL  
Server 2008 for data mining by  
using the tools in Data Mining  
with Microsoft SQL Server  
2008, which will show you how  
to use the SQL Server Data  
Mining Toolset with Office  
2007 to mine and analyze data.**



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**Explore each of the major data mining algorithms, including naive bayes, decision trees, time series, clustering, association rules, and neural networks. Learn more about topics like mining OLAP databases, data mining with SQL Server Integration Services 2008, and using Microsoft data mining to solve business analysis problems. 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**

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**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**

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**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**

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**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.**

**Serving as both a tutorial and a reference guide to the MDX (Multidimensional Expressions) query language, this book shows data warehouse developers what they need to know to build effective multidimensional data warehouses After a brief overview of the MDX language and a look at how it is used to access data in sophisticated, multidimensional databases and data warehousing, the authors move directly to providing practical examples of MDX in use New material covers changes in the MDX language itself as well as**

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**major changes in its implementation with the latest software releases of Microsoft SQL Server Analysis Services 2005 and Hyperion Essbase Also covers more advanced techniques, like aggregation, query templates, and MDX optimization, and shows users what they need to know to access and analyze data to make better business decisions Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file. Over 70 practical recipes to analyze multi-dimensional data in SQL Server 2016**

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**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**

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**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**



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**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

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**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**

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**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

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**sequenced in a logical progression; you will be able to build up your understanding of the topic incrementally.**

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

### **Tabular Modeling in Microsoft SQL Server Analysis Services Microsoft OLAP Solutions Fast Track to MDX**

The massive amount of data collected by businesses often creates a lot of work without doing much good. To make data work for them, businesses need solutions that summarize

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and organize it in ways that will influence the decisions they make each day. With SQL Server Analysis Services Succinctly by Stacia Misner, you will learn how to implement a business intelligence solution through SQL Server Analysis Services. You'll start with developing a database, and learn which architecture is most appropriate for the database's end use. You will then learn how to design practical

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dimensions and cubes, and how to store business logic within the cubes through MDX. Finally, you will learn how to deploy a working solution to the tool of your choice in Microsoft's business intelligence stack, including Excel, SQL Server Reporting Services, and SharePoint. Understanding MDX is crucial for anyone designing or implementing a database in Microsoft's products.

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SAS Olap Server 9.1: MDX Guide provides the main documentation for the product. "SAS Olap Server: Concepts and Excerpts from 'MDX Solutions with Microsoft SQL Server Analysis Services'" includes the subset of information (Chapter 1, Chapter 2, and Appendix A) from "MDX Solutions with Microsoft SQL Server Analysis Services" (published by John Wiley & Sons, Inc. under the ISBN 0471-40046-7) that are applicable to using

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SAS Olap Server 9.1.

These excerpts include basic MDX information such as the MDX data model, MDX construction, comments in MDX, and a complete MDX function and operator reference.

The excerpts are delivered as PDF files on CD. 2003

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



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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-

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to-end solutions to meet your needs.

With PowerPivot, Microsoft brings the power of Microsoft's business intelligence tools to Excel and SharePoint users. Self-service business intelligence today augments traditional BI methods, allowing faster response time and greater flexibility. If you're a business decision-maker who uses Microsoft Office or an IT professional responsible for

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deploying and managing your organization's business intelligence systems, this guide will help you make the most of PowerPivot.

Professional Microsoft PowerPivot for Excel and SharePoint describes all aspects of PowerPivot and shows you how to use each of its major features. By the time you are finished with this book, you will be well on your way to becoming a PowerPivot expert. This book is for people who want to learn

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about PowerPivot from end to end. You should have some rudimentary knowledge of databases and data analysis.

Familiarity with Microsoft Excel and Microsoft SharePoint is helpful, since PowerPivot builds on those two products. This book covers the first version of PowerPivot, which ships with SQL Server 2008 R2 and enhances Microsoft Office 2010. It provides an overview of PowerPivot and a

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detailed look its two components: PowerPivot for Excel and PowerPivot for SharePoint. It explains the technologies that make up these two components, and gives some insight into why these components were implemented the way they were. Through an extended example, it shows how to build a PowerPivot application from end to end. The companion Web site includes all the sample applications and reports

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Analysis Services  
discussed.

Building Open Source ETL  
Solutions with Pentaho  
Data Integration  
Microsoft SQL Server  
2008 Bible

Pentaho Kettle Solutions  
MDX with Microsoft SQL  
Server 2008 R2 Analysis  
Services Cookbook

Implement a Robust BI Solution with  
Microsoft SQL Server 2012 Equip your  
organization for informed, timely  
decision making using the expert tips  
and best practices in this practical  
guide. Delivering Business Intelligence  
with Microsoft SQL Server 2012,  
Third Edition explains how to  
effectively develop, customize, and

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distribute meaningful information to users enterprise-wide. Learn how to build data marts and create BI Semantic Models, work with the MDX and DAX languages, and share insights using Microsoft client tools. Data mining and forecasting are also covered in this comprehensive resource. Understand the goals and components of successful BI Design, deploy, and manage data marts and OLAP cubes Load and cleanse data with SQL Server Integration Services Manipulate and analyze data using MDX and DAX scripts and queries Work with SQL Server Analysis Services and the BI Semantic Model Author interactive reports using SQL Server Data Tools Create KPIs and digital dashboards Use data mining to

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identify patterns, correlations, and clusters Implement time-based analytics Embed BI reports in custom applications using ADOMD.NET 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



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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 Build agile and responsive Business Intelligence solutions Analyze tabular data using the BI Semantic Model (BISM) in Microsoft SQL Server 2012 Analysis Services—and discover a

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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 familiar with its multidimensional model. Discover how to: Determine when a tabular or multidimensional model is right for your project Build a tabular model using SQL Server Data Tools in Microsoft Visual Studio 2010 Integrate data from multiple sources into a single, coherent view of company

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information Use the Data Analysis eXpressions (DAX) language to create calculated columns, measures, and queries Choose a data modeling technique that meets your organization's performance and usability requirements Optimize your data model for better performance with xVelocity storage engine Manage complex data relationships, such as multicolumn, banding, and many-to-many Implement security by establishing administrative and data user roles

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

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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 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

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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  
SQL Server Analysis Services 2012  
Cube Development Cookbook  
Microsoft SQL Server 2012 Bible  
Delivering Business Intelligence with Microsoft SQL Server 2012 3/E  
Practical MDX Queries: For Microsoft

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Over 70 practical recipes to  
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high performing MDX queries in  
SSAS with carefully structured  
examples Who This Book Is For  
This book is for anyone who has

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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

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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



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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

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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. A practical cookbook packed with recipes to help developers produce data cubes as quickly as

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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.

Applied Microsoft Business Intelligence

The Rational Guide to Microsoft Office Business Scorecard

Manager 2005

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