

# **MDX Solutions**

With Microsoft®  
SQL Server  
Analysis  
Services

George Spofford



# Mdx Solutions With Microsoft Sql Server Analysis Services

**Art Tennick**



## **Mdx Solutions With Microsoft Sql Server Analysis Services:**

*MDX Solutions* George Spofford, 2001 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

**MDX Solutions** George Spofford, Sivakumar Harinath, Christopher Webb, Dylan Hai Huang, Francesco Civardi, 2006-02-17 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 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

**SAS OLAP Server** George Spofford, 2004-01 Understanding MDX is crucial for anyone designing or implementing a database in Microsoft's products 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 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

**MDX Solutions** George Spofford, Sivakumar Harinath, Christopher Webb, Dylan Hai Huang, Francesco Civardi, 2006-03-06 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 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 *Professional Microsoft SQL Server 2012 Analysis Services with MDX and DAX* Sivakumar Harinath,Ronald Pihlgren,Denny Guang-Yeu Lee,John Sirmon,Robert M. Bruckner,2012-10-06 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 Professional SQL Server Analysis Services 2005 with MDX Sivakumar Harinath,Stephen R. Quinn,2006-04-17 Written by the lead developers of Analysis Services at Microsoft this book begins with an overview showing how Analysis Services and MDX can be used to build data warehouses and multidimensional databases The authors then describe the development processes for building dimensions and cubes from various data sources Demonstrating a variety of techniques in real world scenarios the book shows how MDX can be used to query databases to provide sophisticated analysis of business problems Finally the book explains how Analysis Services can be used with other components of SQL Server including DTS data mining and Report Services to provide comprehensive end to end solutions

**Professional Microsoft SQL Server Analysis Services 2008 with MDX** Sivakumar Harinath,Robert Zare,Sethu Meenakshisundaram,Matt Carroll,Denny Guang-Yeu Lee,2011-01-31 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

*MDX with Microsoft SQL Server 2016 Analysis Services Cookbook*  
Tomislav Piasevoli, Sherry Li, 2016-11-30 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

**Professional Microsoft SQL Server Analysis Services 2008 with MDX** Sivakumar Harinath, Robert Zare, Sethu Meenakshisundaram, Matt Carroll, Denny Guang-Yeu Lee, 2009-03-16 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 [MDX with Microsoft SQL Server 2008 R2 Analysis Services Cookbook](#) Tomislav Piasevoli,2011-07-25 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 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 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 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 **Microsoft SQL Server 2012 Analysis Services** Alberto Ferrari,Marco Russo,Chris Webb,2012-07-15 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 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 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

Practical MDX Queries: For Microsoft SQL Server Analysis Services 2008 Art Tennick, 2010-07-29 300 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 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

*Applied Microsoft Analysis Services 2005* Teo Lachev, 2005 Knowledge is power As its name suggests the promise of Microsoft SQL Server Analysis Services 2005 is to promote better data analytics by giving information workers the right tool to analyze consistent timely and reliable data Empowered with Analysis Services and Microsoft Business Intelligence Platform you are well positioned to solve the perennial problem with data that there is too much of it and finding the right information is often difficult if not impossible Applied Microsoft Analysis Services 2005 shows database administrators and developers how to build complete OLAP solutions with Microsoft Analysis Services 2005 and Microsoft Business Intelligence Platform Database administrators will learn how to design and manage sophisticated OLAP cubes that provide rich data analytics and data mining services The book gives developers the necessary background to extend UDM with custom programming logic in the form of MDX expressions scripts and NET code It teaches them how to implement a wide range of reporting applications that integrate with Analysis Services Reporting Services and Microsoft Office This book doesn't assume any prior experience with OLAP and Microsoft Analysis Services It is designed as an easy to follow guide where each chapter builds upon the previous to implement the components of the innovative Unified Dimensional Model UDM in a chronological order New concepts are introduced with step by step instructions and hands on demos What's Inside o Design sophisticated UDM models o Build ETL processes with SSIS o Implement data mining tasks o Enrich UDM programmatically with MDX o Extend UDM with SSAS stored procedures o Create rich end user model o Optimize Analysis Services storage and processing o Implement dynamic security o Build custom OLAP clients o Author standard and ad hoc reports with SSRS o Build Office based BI applications

and dashboards o and much more      *Microsoft SQL Server 2008 MDX Step by Step* Bryan Smith,C. Clay,2009-02-25 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 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      *Hands-On SQL Server 2019 Analysis Services* Steven Hughes,2020-10-22 Get up to speed with the new features added to Microsoft SQL Server 2019 Analysis Services and create models to support your business Key FeaturesExplore tips and tricks to design develop and optimize end to end data analytics solutions using Microsoft s technologiesLearn tabular modeling and multi dimensional cube design development using real world examplesImplement Analysis Services to help you make productive business decisionsBook 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 learnDetermine the best analytical model using SSASCover the core aspects involved in MDX including writing your first queryImplement calculated tables and calculation groups new in version 2019 in DAXCreate and deploy tabular and multi dimensional models on SQL 2019Connect and create data visualizations using Excel and Power BIImplement row level and other data security methods with tabular and multi dimensional modelsExplore essential concepts and techniques to scale manage and optimize your SSAS solutionsWho 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



**Foundations of SQL Server 2005 Business Intelligence** Lynn Langit,2007-09-08 Just as every business needs to effectively employ business intelligence BI to stay competitive every IT professional needs to master BI to stay employed in this fastest growing segment of information technology Foundations of SQL Server 2005 Business Intelligence is the quickest path to understanding BI and it is essential reading for all who work with SQL Server 2005 It is written from a practical perspective perfect for anyone who uses the tools in SQL Server 2005s extraordinarily rich BI product suite This book explains how best to use Analysis Services SQL Server Integration Services SQL Server Reporting Services and SQL Server Data Mining It also describes best practices for implementing end to end BI solutions in small medium and large business environments And it provides important information about integrating BI with various client tools including Excel Business Scorecards Proclarity and SharePoint Portal Server Developers end users and even managers will find this an enlightening guide to the power and promise of SQL Server 2005 BI     **MDX with SSAS 2012 Cookbook** Tomislav Piasevoli Sherry Li,2013-01-01 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 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     ***Professional Microsoft PowerPivot for Excel and SharePoint*** Sivakumar Harinath,Ron Pihlgren,Denny Guang-Yeu Lee,2010-05-25 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 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     **Mastering Excel 2003 Programming with VBA** Steven M. Hansen,2006-02-20 Create Powerful Business Applications with Excel 2003 Excel 2003 is an ideal application development platform for all levels of business needs If you re an advanced Excel user looking to gain programming experience or a skilled developer new to Excel or the Excel Object Model this no nonsense book teaches you how to build custom applications that can generate substantial time and cost savings for you your employer and your customers Written by a professional with nearly a decade of experience producing Excel VBA solutions Mastering Excel 2003 Programming with VBA conveys the precise knowledge and techniques you need to be highly productive You ll master the most critical Excel objects and development practices necessary to create a complete solution including working with XML data Smart Document technology and database integration with ADO And you can readily apply the practical advice and reusable code examples to your own

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