



# MDX with SSAS 2012 Cookbook

69 practical recipes to analyze multidimensional data stored in SSAS 2012 cubes, using high-performance MDX calculations and flexible MDX queries

Sherry Li

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**[PACKT]** enterprise **88**  
PUBLISHING

# Mdx With Microsoft Sql Server 2012 Analysis Services Cookbook

**Thomas A. Hicks**



## **Mdx With Microsoft Sql Server 2012 Analysis Services Cookbook:**

*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 [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      [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      **SQL Server Analysis Services 2012 Cube Development Cookbook** Baya Dewald,Steve Hughes,Paul Turley,2013-12-26 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      **Getting Started with SQL Server 2012 Cube Development** Simon Lidberg,2013-09-13 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 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      [Tabular Modeling in Microsoft SQL Server Analysis Services](#) Marco Russo,Alberto Ferrari,2017-04-12 Build agile and responsive business intelligence solutions Create a semantic model 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.

**Instant SQL Server Analysis Services 2012 Cube Security** Satya S. K. Jayanty, 2013-01-01. Filled with practical, step-by-step instructions and clear explanations for the most important and useful tasks. Instant Microsoft SQL Server Analysis Services 2012 Cube Security is a practical, hands-on guide that provides a number of clear, step-by-step exercises for getting started with cube security. This book is aimed at Database Administrators, Data Architects, and Systems Administrators who are managing the SQL Server data platform. It is also beneficial for analysis services developers who already have some experience with the technology but who want to go into more detail on advanced topics and learn best practices for cube design.

**SQL Server 2012 Data Integration Recipes** Adam Aspin, 2013-01-26. SQL Server 2012 Data Integration Recipes provides focused and practical solutions to real-world problems of data integration. Need to import data into SQL Server from an outside source? Need to export data and send it to another system? SQL Server 2012 Data Integration Recipes has your back. You'll find solutions for importing from Microsoft Office data stores such as Excel and Access from text files such as CSV files from XML from other database brands such as Oracle and MySQL and even from other SQL Server databases. You'll learn techniques for managing metadata, transforming data to meet the needs of the target system, handling exceptions and errors, and much more. What DBA or developer isn't faced with the need to move data back and forth? Author Adam Aspin brings 10 years of extensive ETL experience involving SQL Server and especially satellite products such as Data Transformation Services and SQL Server Integration Services. Extensive coverage is given to Integration Services, Microsoft's flagship tool for data integration in SQL Server environments. Coverage is also given to the broader range of tools such as OPENDATASOURCE, linked servers, OPENROWSET, Migration Assistant for Access, BCP Import, and BULK INSERT.

just to name a few If you re looking for a resource to cover data integration and ETL across the gamut of Microsoft s SQL Server toolset SQL Server 2012 Data Integration Recipes is the one book that will meet your needs Provides practical and proven solutions towards creating resilient ETL environments Clearly answers the tough questions which professionals ask Goes beyond the tools to a thorough discussion of the underlying techniques Covers the gamut of data integration beyond just SSIS Includes example databases and files to allow readers to test the recipes Data Warehouse Systems Alejandro Vaisman,Esteban Zimányi,2014-09-10 With this textbook Vaisman and Zim nyi deliver excellent coverage of data warehousing and business intelligence technologies ranging from the most basic principles to recent findings and applications To this end their work is structured into three parts Part I describes Fundamental Concepts including multi dimensional models conceptual and logical data warehouse design and MDX and SQL OLAP Subsequently Part II details Implementation and Deployment which includes physical data warehouse design data extraction transformation and loading ETL and data analytics Lastly Part III covers Advanced Topics such as spatial data warehouses trajectory data warehouses semantic technologies in data warehouses and novel technologies like Map Reduce column store databases and in memory databases As a key characteristic of the book most of the topics are presented and illustrated using application tools Specifically a case study based on the well known Northwind database illustrates how the concepts presented in the book can be implemented using Microsoft Analysis Services and Pentaho Business Analytics All chapters are summarized using review questions and exercises to support comprehensive student learning Supplemental material to assist instructors using this book as a course text is available at <http://cs.ulb.ac.be/DWSDIbook> including electronic versions of the figures solutions to all exercises and a set of slides accompanying each chapter Overall students practitioners and researchers alike will find this book the most comprehensive reference work on data warehouses with key topics described in a clear and educational style

Professional Microsoft SQL Server 2012 Analysis Services with MDX and DAX Sivakumar Harinath,2012 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 Microsoft SQL Server 2012 Analysis Services with MDX and Dax* Spencer M. Riley,2015-08-10 Thought provoking and accessible in approach this updated and expanded second edition of the Professional Microsoft SQL Server 2012 Analysis Services with MDX and DAX 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 advanced graduate level students We hope you find this book useful in shaping your future career Feel free to send us your enquiries related to our publications to info@risepress.com Rise Press

**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

Instant MDX Queries for SQL Server 2012 Nicholas Emond,2013 Get to grips with a new technology understand what it is and what it can do for you and then get to work with the most important features and tasks This short focused guide is a great way to get started with writing MDX queries New developers can use this book as a reference for how to use functions and the syntax of a query as well as how to use Calculated Members and Named Sets This book is great for new developers who want to learn the MDX query language from scratch and install SQL Server 2012 with Analysis Services

**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

**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

*Ser'ata qedous zabeta krestiyen kâthikawit* ,1907

**Practical MDX Queries** Thomas A. Hicks,2015-08-17 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 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

*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 **Microsoft SQL Server 2014 Business Intelligence Development Beginner's Guide** Reza Rad,2014-05-26 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

The book delves into Mdx With Microsoft Sql Server 2012 Analysis Services Cookbook. Mdx With Microsoft Sql Server 2012 Analysis Services Cookbook is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Mdx With Microsoft Sql Server 2012 Analysis Services Cookbook, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
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    - Chapter 2: Essential Elements of Mdx With Microsoft Sql Server 2012 Analysis Services Cookbook
    - Chapter 3: Mdx With Microsoft Sql Server 2012 Analysis Services Cookbook in Everyday Life
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  3. In chapter 2, the author will delve into the foundational concepts of Mdx With Microsoft Sql Server 2012 Analysis Services Cookbook. This chapter will elucidate the essential principles that need to be understood to grasp Mdx With Microsoft Sql Server 2012 Analysis Services Cookbook in its entirety.
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  5. In chapter 4, the author will scrutinize the relevance of Mdx With Microsoft Sql Server 2012 Analysis Services Cookbook in specific contexts. This chapter will explore how Mdx With Microsoft Sql Server 2012 Analysis Services Cookbook is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Mdx With Microsoft Sql Server 2012 Analysis Services Cookbook. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Mdx With Microsoft Sql Server 2012 Analysis Services Cookbook.

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