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Microsoft SQL Server Analysis Services, SSAS (and sometimes MSAS), is an online analytical processing (OLAP) and data mining tool in Microsoft SQL Server. SSAS is used as a tool by organizations to analyze and make sense of information possibly spread out across multiple databases, or in disparate tables or files. Microsoft has included a number of services in SQL Server related to business intelligence and data warehousing. These services include Integration Services, Reporting Services and Analysis Services. Analysis Services includes a group of OLAP and data mining capabilities and comes in two flavors - Multidimensional and Tabular. This updated and expanded second edition of Book 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. Microsoft SQL Server Analysis Services, SSAS (and sometimes MSAS), is an online analytical processing (OLAP) and data mining tool in Microsoft SQL Server. SSAS is used as a tool by organizations to analyze and make sense of information possibly spread out across multiple databases, or in disparate tables or files. Microsoft has included a number of services in SQL Server related to business intelligence and data warehousing. These services include Integration Services, Reporting Services and Analysis Services. Analysis Services includes a group of OLAP and data mining capabilities and comes in two flavors - Multidimensional and

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

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

Who this book is for
This Microsoft SQL Server book is for BI professionals and data analysts who are looking for a practical guide to creating and maintaining tabular and multi-dimensional models using SQL Server 2019 Analysis Services. A basic working knowledge of BI solutions such as Power BI and database querying is required. Microsoft SQL Server Analysis Services, SSAS (and sometimes MSAS), is an online analytical processing (OLAP) and data mining tool in Microsoft SQL Server. SSAS is used as a tool by organizations to analyze and make sense of information possibly spread out across multiple databases, or in disparate tables or files. Microsoft has included a number of services in SQL Server related to business intelligence and data warehousing. These services include Integration Services, Reporting Services and Analysis Services. Analysis Services includes a group of OLAP and data mining capabilities and comes in two flavors - Multidimensional and Tabular. This updated and expanded second edition of Book 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.

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out across multiple databases, or in disparate tables or files. Microsoft has included a number of services in SQL Server related to business intelligence and data warehousing. These services include Integration Services, Reporting Services and Analysis Services. Analysis Services includes a group of OLAP and data mining capabilities and comes in two flavors - Multidimensional and Tabular. This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business. A practical cookbook packed with recipes to help developers produce data cubes as quickly as possible by following step by step instructions, rather than explaining data mining concepts with SSAS. If you are a BI or ETL developer using SQL Server Analysis services to build OLAP cubes, this book is ideal for you. Prior knowledge of relational databases and experience with Excel as well as SQL development is required. Microsoft SQL Server Analysis Services, SSAS (and sometimes MSAS), is an online analytical processing (OLAP) and data mining tool in Microsoft SQL Server. SSAS is used as a tool by organizations to analyze and make sense of information possibly spread out across multiple databases, or in disparate tables or files. Microsoft has included a number of services in SQL Server related to business intelligence and data warehousing. These services include Integration Services, Reporting Services and Analysis Services. Analysis Services includes a group of OLAP and data mining capabilities and comes in two flavors - Multidimensional and Tabular. This updated and expanded second edition of Book 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. Microsoft SQL Server Analysis Services, SSAS (and sometimes MSAS), is an online analytical processing (OLAP) and data mining tool in Microsoft SQL Server. SSAS is used as a tool by organizations to analyze and make sense of information possibly spread out across multiple databases, or in disparate tables or files. Microsoft has included a number of services in SQL Server related to business intelligence and data warehousing. These services include Integration Services, Reporting Services and Analysis Services. Analysis Services includes a group of OLAP and data mining capabilities and comes in two flavors - Multidimensional and Tabular. This updated and expanded second edition of Book 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

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- 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. 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. 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. 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 Analysis Services, SSAS (and sometimes MSAS), is an online analytical processing (OLAP) and data mining tool in Microsoft SQL Server. SSAS is used as a tool by organizations to analyze and make sense of information possibly spread out across multiple databases, or in disparate tables or files. Microsoft has included a number of services in SQL Server related to business intelligence and data warehousing. These services include Integration Services, Reporting Services and Analysis Services. Analysis Services includes a group of OLAP and data mining capabilities and comes in two flavors - Multidimensional and Tabular. This updated and expanded second edition of Book 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. Microsoft SQL Server Analysis Services, SSAS (and sometimes MSAS), is an online analytical processing (OLAP) and data mining tool in Microsoft SQL Server. SSAS is used as a tool by organizations to analyze and make sense of

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250+ Ready-to-Use, Powerful DMX Queries Transform data mining model information into actionable business intelligence using the Data Mining Extensions (DMX) language. Practical DMX Queries for Microsoft SQL Server Analysis Services 2008 contains more than 250 downloadable DMX queries you can use to extract and visualize data. The application, syntax, and results of each query are described in detail. The book emphasizes DMX for use in SSMS against SSAS, but the queries also apply to SSRS, SSIS, DMX in SQL, WinForms, WebForms, and many other applications. Techniques for generating DMX syntax from graphical tools are also demonstrated in this valuable resource. View cases within data mining structures and models using DMX Case queries

Examine the content of a data mining model with DMX Content queries Perform DMX Prediction queries based on the Decision Trees algorithm and the Time Series algorithm Run Prediction and Cluster queries based on the Clustering algorithm Execute Prediction queries with Association and Sequence Clustering algorithms Use DMX DDL queries to create, alter, drop, back up, and restore data mining objects Display various parameters for each algorithm with Schema queries Examine the values of discrete, discretized, and continuous structure columns using Column queries Use graphical interfaces to generate Prediction, Content, Cluster, and DDL queries Deliver DMX query results to end users Download the source code from www.mhprofessional.com/computingdownload 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 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 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. Expert techniques to build cutting-edge business solutions with tabular modeling

About This Book* Build and deploy Tabular Model projects from relational data sources* Leverage DAX and create high-performing calculated fields and measures* Create ad-hoc reports based on a Tabular Model solution* Filled with tips to monitor and optimize your tabular solutions

Who This Book Is ForThis book is for SQL BI professionals and Architects who want to exploit the full power of the new Tabular models in Analysis Services. Some knowledge of previous versions of Analysis services would be helpful but is not essential.

What you will learn* Understand what Tabular services mode is and how it speeds up development* Build solutions using a variety of sample data sets* Explore various built-in actions and transitions in SSAS 2016* Implement row, column, and role based security in a Tabular Data model* Realize the benefits of In-Memory and DirectQuery deployment modes* Uncover the most significant enhancements to SQL Server 2016 Analysis Services * Optimize Data Models and Relationships

UsageIn DetailSQL Server Analysis Service (SSAS) has been widely used across multiple businesses to build smart online analytical reporting solutions. It includes two different types of modeling for analysis

services: Tabular and Multi Dimensional. This book covers Tabular modeling, which uses the concepts of tables and relationships with a fast in-memory engine that provides state of art compression algorithms and query performance. The book begins by quickly taking you through the various concepts required to model tabular data and set up the necessary tools and services. As you learn to create tabular models using tools such as Excel and Power View, you'll get to know various strategies to deploy your model on the server and choose a query mode (In-memory or DirectQuery) that best suits your reporting needs. You'll also find out how to implement key and newly introduced DAX functions to create calculated columns and measures for your model data. Last but not least, you'll get to know techniques that will help you administer and secure your BI implementation along with some widely used tips and tricks to optimize your reporting solution. By the end of this book, you'll have gained hands-on experience of various impactful enhancements that have now been added to Tabular models in SSAS 2016 and you'll be able to improve user satisfaction via faster reports and analytical queries. This comprehensive and authoritative guide will teach you the DAX language for business intelligence, data modeling, and analytics. Leading Microsoft BI consultants Marco Russo and Alberto Ferrari help you master everything from table functions through advanced code and model optimization. You ' ll learn exactly what happens under the hood when you run a DAX expression, how DAX behaves differently from other languages, and how to use this knowledge to write fast, robust code. If you want to leverage all of DAX ' s remarkable power and flexibility, this no-compromise " deep dive " is exactly what you need. Perform powerful data analysis with DAX for Microsoft SQL Server Analysis Services, Excel, and Power BI Master core DAX concepts, including calculated columns, measures, and error handling Understand evaluation contexts and the CALCULATE and CALCULATETABLE functions Perform time-based calculations: YTD, MTD, previous year, working days, and more Work with expanded tables, complex functions, and elaborate DAX expressions Perform calculations over hierarchies, including parent/child hierarchies Use DAX to express diverse and unusual relationships Measure DAX query performance with SQL Server Profiler and DAX Studio Microsoft SQL Server Analysis Services, SSAS (and sometimes MSAS), is an online analytical processing (OLAP) and data mining tool in Microsoft SQL Server. SSAS is used as a tool by organizations to analyze and make sense of information possibly spread out across multiple databases, or in disparate tables or files. Microsoft has included a number of services in SQL Server related to business intelligence and data warehousing. These services include Integration Services, Reporting Services and Analysis Services. Analysis Services includes a group of OLAP and data mining capabilities and comes in two flavors - Multidimensional and Tabular. This updated and expanded second edition of Book 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. An easy-to-follow guide full of hands on examples of real-world Analysis Services cube development tasks. Each topic is explained and placed in context, and for the more inquisitive reader, there also more in-depth details of the concepts used. If you are an Analysis Services cube designer wishing to learn more advanced topic and best practices for cube design, this book is for you. You are expected to have some prior experience with Analysis Services cube development. 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 Prepare for Microsoft Exam 70-768 – and help demonstrate your real-world mastery of Business Intelligence (BI) solutions development with SQL Server 2016 Analysis Services (SSAS), including modeling and queries. Designed for experienced IT professionals ready to advance their status, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives:

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

This Microsoft Exam Ref:

- Organizes its coverage by exam objectives
- Features strategic, what-if scenarios to challenge you
- Assumes you are a database or BI professional with experience creating models, writing MDX or DAX queries, and using SSAS

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. CD-ROM includes practice exercises and e-book. Microsoft

SQL Server Analysis Services, SSAS (and sometimes MSAS), is an online analytical processing (OLAP) and data mining tool in Microsoft SQL Server. SSAS is used as a tool by organizations to analyze and make sense of information possibly spread out across multiple databases, or in disparate tables or files. Microsoft has included a number of services in SQL Server related to business intelligence and data warehousing. These services include Integration Services, Reporting Services and Analysis Services. Analysis Services includes a group of OLAP and data mining capabilities and comes in two flavors - Multidimensional and Tabular. This updated and expanded second edition of Book 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.

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Master Microsoft's Business Intelligence Tools Building Integrated Business Intelligence Solutions with SQL Server 2008 R2 & Office 2010 explains how to take full advantage of Microsoft's collaborative business intelligence (BI) tools. A variety of powerful, flexible technologies are covered, including SQL Server Analysis Services (SSAS), Excel, Excel Services, PowerPivot, SQL Server Integration Services (SSIS), Server Reporting Services (SSRS), SharePoint Server 2010, PerformancePoint Services, and Master Data Services. This practical guide focuses on developing end-to-end BI solutions that foster informed decision making. Create a multidimensional store for aggregating business data with SSAS Maximize the analysis capabilities of Excel and Excel Services Combine data from different sources and connect data for analysis with PowerPivot Move data into the system using SSIS, InfoPath, Streamsight, and SharePoint 2010 External Lists Build and publish reports with SSRS Integrate data from disparate applications, using SharePoint 2010 BI features Create scorecards and dashboards with PerformancePoint Services Summarize large volumes of data in charts and graphs Use the SSRS map feature for complex visualizations of spatial data Uncover patterns and relationships in data using the SSAS data mining engine Handle master data management with Master Data Services Publish the components of your BI solution and perform administrative tasks

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