



SSAS Tabular Workshop

Microsoft SQL Server 2012 introduced BISM (Business Intelligence Semantic Model), which includes two different types of modeling for Analysis Services: Tabular and Multidimensional. The same features are also available in Microsoft SQL Server 2014.

The **Multidimensional modeling** uses the concepts of cubes and dimensions with an OLAP calculation engine based on the MDX language. Any project created with a previous version of Analysis Services (formerly known as UDM - Unified Dimensional Model) is now a Multidimensional model.

The **Tabular modeling** uses the concepts of tables and relationships with a fast in-memory engine called VertiPaq, which provides state-of-the-art compression algorithms and query performance. Both Multidimensional and Tabular models can be queried by using existing OLAP tools based on MDX, and Tabular can be also queried in DAX, offering increased flexibility and performance.

The SSAS Tabular Workshop is course dedicated to Tabular Modeling in Analysis Services 2012 and is the best way to learn this new technology directly from two SSAS Maestros that used the product since early beta releases and wrote a book and many articles about it. It is available as a **three-day** workshop including hands-on-labs, or as a **two-day** seminar.

No knowledge of previous versions of Analysis Services and UDM is required, because BISM Tabular is based on different concepts and on the new DAX language.

Training Material delivered to each attendee:

- One copy of the book *Microsoft SQL Server Analysis Services 2012: The BISM Tabular Model*
- Course slides in PDF format
- Demo files used in the course
- Exercises used in hands-on-lab (only in three-day edition)

Goals of the training:

- Learn how to create a SSAS Tabular model in Visual Studio
- Evaluate the choice between Tabular and Multidimensional for a new project
- Getting a basic knowledge of DAX syntax and concepts
- Planning and managing deployment of a Tabular solution in a production environment
- Monitoring and optimizing a SSAS Tabular solution

The course targets BI Architects and BI Developers that already have an experience in building Business Intelligence solutions.

Course Outline:

- BISM Architecture
 - Tabular Modeling
 - Multidimensional Modeling
- Installing Analysis Services
- Guided Tour on Tabular
- Loading Data
- DAX Basics
- Evaluation Contexts
 - Filter Context
 - Row Context
 - CALCULATE
- Querying Tabular
- VertiPaq Engine
- Tabular Hierarchies
- Tabular Presentation Layer
- Tabular vs. PowerPivot
- Handling Security
- Interfacing with Tabular
- Tabular Deployment
 - DirectQuery and InMemory modes
 - Partitioning
- Tabular vs. Multidimensional
- Optimizations and Monitoring

Public open workshops

We offer a public schedule of open classes accepting individual registrations of participants from different companies and backgrounds. In this case, we will follow the default course program with all the examples, based on the standard AdventureWorks database.

You can find available dates and locations at www.ssasworkshop.com.

Private classes

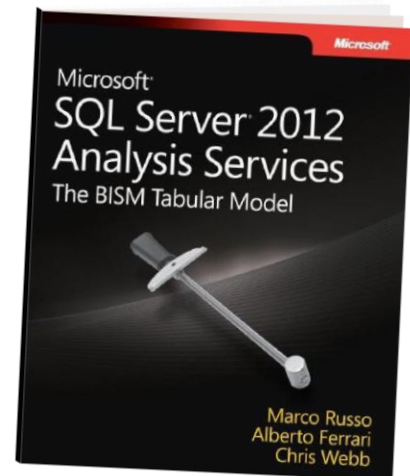
We offer private editions of the workshop delivered to attendees from a single company. In this case, we can either follow the standard course or, if required and upon previous agreement, we can prepare a range of examples and exercises taken from the company data warehouse or OLTP system. At the end of the course, the participants will have one or more projects that would be already working on their data.

If this is the preferred option, the customer will need to supply us with all the data needed to create the examples and with the relevant documentation describing the database structure and the required analysis at least ten days prior to the beginning of the course. As an alternative, we can extend the course by one day and provide this service at the customer's site, working side by side with the participants to build a set of startup projects.

Contact us at info@sqlbi.com in order to arrange a private class.

Learn SQL Server Analysis Services 2012/2014 directly from the authors of the Microsoft Press book about the new SSAS Tabular Model!

www.ssasworkshop.com



Marco Russo

Marco is a Business Intelligence consultant and mentor. His main activities are related to data warehouse relational and multidimensional design, but he is

also involved in the complete development lifecycle of a BI solution. He has particular competence and experience in sectors like financial services (including complex olap designs in banking area), manufacturing and commercial distribution.

He achieved the unique SSAS Maestro certification and is also a Microsoft Certified Trainer with several Microsoft Certified Professional certifications.

More info at

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Alberto Ferrari

Alberto is a Business Intelligence consultant. He shares his interests in two main areas: methodological approach to the BI development lifecycle and performance tuning of ETL and SQL code.

His main activities are with SSIS and SSAS for the bank, manufacturing and statistical areas. He is also a speaker in international conferences like European PASS Conference and PASS Summit.

He achieved the unique SSAS Maestro certification.

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