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# 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 2014/2016.

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 OLAP tools based on MDX or DAX language. The DAX language has been introduced in Tabular, offering increased flexibility and performance.

The SSAS Tabular Workshop is course dedicated to Tabular Modeling in Analysis Services 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 several books and many articles about it. It is available as a **two-day** workshop, including guided practice of the tools.

No knowledge of previous versions of Analysis Services and UDM is required, because BISM Tabular is based on different concepts and on the DAX language. The course Mastering DAX is the suggested follow-up course in order to learn DAX syntax and concepts.

## Training Material delivered to each attendee:

- One copy of the book  
*Tabular Modeling in SQL Server Analysis Services (2<sup>nd</sup> Edition)*
- Course slides in PDF format
- Demo files used in the course

## 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
- 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
- Tabular Scripting Language
- Tabular Presentation Layer
- Using DirectQuery
- Handling Security
- Tabular Deployment
  - DirectQuery and InMemory modes
  - Partitioning
  - Processing Strategy
- Interfacing with Tabular
- Monitoring and Tuning Tabular service

### 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](http://www.ssasworkshop.com).

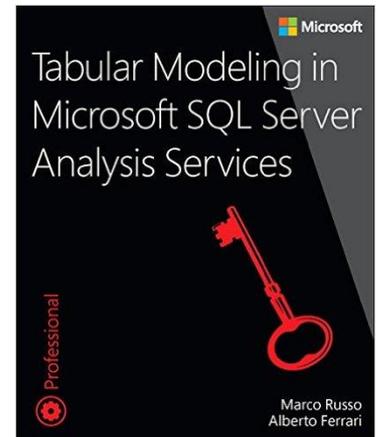
### Private classes

**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](mailto:info@sqlbi.com) in order to arrange a private class.

# Learn SQL Server Analysis Services 2016 directly from the authors of the Microsoft Press book about the SSAS Tabular Model!



## Marco Russo

Marco is a Business Intelligence consultant and mentor. His main activities are related to the DAX language, Analysis Services, Power BI, and Power Pivot. He has

particular competence and experience in sectors like financial services, manufacturing and commercial distribution.

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

More info at [www.sqlbi.com/marco-russo](http://www.sqlbi.com/marco-russo)

## 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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