



OPTIMIZING
DAX
Workshop

produced by



Optimizing DAX Workshop

This **two-day** workshop is a complete course about optimizing queries and measures in the DAX language. DAX is the native language of Power Pivot for Excel, Power BI Designer and SSAS Tabular models in Microsoft SQL Server Analysis Services 2012/2014. This course is aimed at BI professionals, Power BI and Excel users who already know the DAX language and want to learn how to optimize DAX formulas and models for improving performance. The goal of the course is to enable you to find bottlenecks in DAX calculations using tools such as Profiler and DAX Studio, providing the knowledge to improve the performance by using different DAX formulas or by changing the data model, when required. All the attendees will receive a copy of the new book *The Definitive Guide to DAX* (publish date: July 2015).

Prerequisite: Attendees need to have a good knowledge of the DAX Language, and a previous experience using either Power Pivot for Excel, or Power BI Designer, or Analysis Services Tabular. You might acquire this knowledge by participating to the Mastering DAX Workshop, or having equivalent real-world experience.

The training is aimed at developers and users who already knows the DAX language and want to learn how to optimize DAX formulas for performance.

Training Material Delivered to Each Attendee:

- A copy of the book *The Definitive Guide to DAX*. The book will be shipped free of charge as soon as it will be available on the market.
- Course slides in PDF format
- Demo files used in the course

Goals of the Training:

- Optimizing DAX expressions and queries, finding bottlenecks and adopting best practices
- Learning how to use DAX query plans in order to maximize performance
- Learning all of the xVelocity engine internals
- Practicing in hands-on lab sessions assisted by our teacher

Course Outline:

- xVelocity in-memory internals
- Advanced SetFilter
- Monitoring Tabular
- Reading Profiler Traces
- Understanding Formula & Storage Engines
- Optimizing DAX
- Advanced Time Intelligence
- Advanced Querying
- Optimizing Data Models and Relationships Usage

Hands-On Lab Sessions

Bring your own notebook to run hands-on lab sessions assisted by our teachers. We provide a detailed setup guide and exercise files so that you can prepare your computer in advance. We suggest Power BI Designer or SQL Server 2012/2014 with Analysis Services Tabular installed on your notebook. You will receive the setup notes two weeks before the course. We also provide Remote Desktop connections to Virtual Machines during the course, if you do not have Analysis Services Tabular and Excel 2013 installed in your laptop.

Public Open Workshops

We offer a public schedule of open classes, where we welcome 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 along with other samples provided by us.

You can find all the available dates and locations at www.sqlbi.com/training/optimizing-dax.

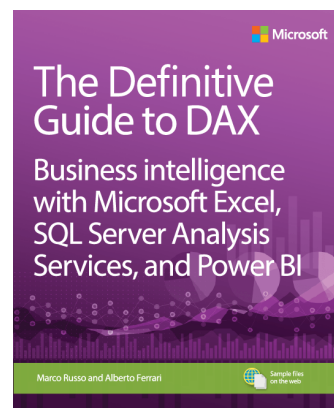
Private Classes

We offer private versions of the workshop, delivered to participants 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 taken from the company analytical system.

If this is the preferred option, the customer need to supply us with all the data needed to analyze 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 optimize existing models, putting in practice the theory learned during the workshop.

Contact us at info@sqlbi.com to arrange private classes.

Learn DAX language directly from the authors of the book *The Definitive Guide to DAX!*



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 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.

More info at www.sqlbi.com/alberto-ferrari



**SSAS
MAESTRO**
by Microsoft



Microsoft Partner
Gold Data Analytics
Gold Data Platform

Register today on

www.sqlbi.com/training/optimizing-dax

