



presents

PowerPivot Workshop

SQLBI is proud to announce the PowerPivot Workshop, a two days' workshop that covers PowerPivot topics, starting from basic concepts and moving on up to complex data models and DAX formulas.

The main goal of the course is to facilitate the use of PowerPivot in the real world.

It is designed for professionals who want to use PowerPivot full capabilities while, at the same time, it permits to identify those scenarios where its use might not be convenient.

The course outline, in full detail, is the following:

- **Introduction**
 - What is PowerPivot?
 - What is a PivotTable?
 - Example with classical Excel PivotTable
 - PowerPivot setup
 - Example with PowerPivot
- **Basic PowerPivot Concepts**
 - Formatting Numbers
 - Handling Technical and Useless Columns
 - Understanding Calculated Columns
 - Using Lookup Tables
 - Understanding Measures
 - Handling Many Tables
 - Refreshing Data
 - Using Slicers
- **Introduction to DAX**
 - Calculation Foundations
 - DAX Data Types
 - DAX Operators
 - Calculated Columns Examples
 - Measures Examples
 - Introduction to the Execution Context (Row and Filter)
 - Choosing Between Calculated Columns and Measures
 - Handling Errors in DAX
 - Common DAX Functions Examples
 - Statistical Functions
 - Logical Functions
 - Information Functions
 - Mathematical Functions
 - Text Functions
 - Date and Time Functions
- **Understanding Data Models**
 - What is a Data Model?
 - Why PowerPivot Users need Data Modeling?
 - Difference Between Classical and PowerPivot PivotTable
 - Physical and Logical Data Models
 - Normalization and Denormalization
 - Empty and Default Values
 - Understanding How and When to Denormalize
 - The SQL Query Designer as a Data Modeling Tool
 - Different kinds of Joins
 - Setting Relationship Manually
 - Understanding OUTER Joins
 - **Loading Data and Models**
 - Understanding Data Connections
 - Different Kind of Connections
 - Using Existing Connections
 - Loading Tables from SQL Server
 - Filtering Options
 - Loading and Detecting Relationships
 - Loading from Views
 - Loading from Access
 - Issues in the Query Designer
 - Best Practices
 - Loading Data from Analysis Services
 - The MDX Query Designer
 - Handling of Keys in SSAS
 - Common Issues with SSAS 2000
 - OLAP cube or DataMart?
 - Using Linked Tables
 - Loading from Excel Workbooks
 - Loading from Text Files
 - Using the Schema.INI configuration
 - Using Copy & Paste Operations
 - Loading From Data Feeds
 - Reporting Services Reports
 - Internet Data Feeds

- Loading From SharePoint
 - Loading From SharePoint Reports
 - Loading From SharePoint Excel Workbooks
 - Loading From PowerPivot in Excel Workbooks
 - Loading From SharePoint Lists
- **Understanding the Evaluation Context**
 - What is the Row Context
 - What is the Filter Context
 - Filter Context on a Single Table
 - Updating the Filter Context on a Single Table
 - Evaluation Context in Detail
 - Filter Context + Row Context
 - Updating the Filter Context
 - Restricting the Context
 - Enlarging the Context
 - Moving From Row Context To Filter Context
 - Evaluation Context And Relationships
 - Row Context for Multiple Tables
 - Filter Context for Multiple Tables
 - Updating the Filter Context with Relationships
 - The EARLIER and EARLIEST Functions
 - What is the EARLIER Function
 - Examples of usage of EARLIER
 - The EARLIEST Function
 - Examples of usage of EARLIEST
- **CALCULATE**
 - Introduction to Calculate
 - Examples of CALCULATE
 - Detailed Analysis of CALCULATE Behavior
- **The Calendar Table in PowerPivot**
 - Why a Calendar Table is Useful
 - Attribute Consolidation
 - Common Calendar Calculations
 - Creating a Calendar Table with Excel
 - Excel Tips to Create a Calendar Table
 - Handling Holydays for One Country
 - Handling Holydays for Multiple Countries
 - Working Days Calculation
 - Common Calendar Calculations
 - Year To Date
 - Quarter To Date
 - Month To Date
 - Same Period Last Year
 - Other Custom Aggregation Function and CALCULATE
 - Delta Over Previous Year
 - Creating a Period Table
 - Simplify Browsing with a Period Table
- Semi Additive Measures
 - DAX pattern for Period Table
 - Closing Balance Over Time
 - The FirstNonBlank and LastNonBlank Functions
 - The OPENINGBALANCE and CLOSINGBALANCE Functions
 - Balance Updated at Transactions
- **Mastering Pivot Tables**
 - Different Kind of Pivot Tables
 - Classical Pivot Table
 - Pivot Table on SSAS OLAP cubes
 - Pivot Table on PowerPivot
 - Flattened Pivot Table
 - Using Custom Sorting
 - Example with the Calendar Table
 - Implementing Custom Sorting
 - Computing Ratios and Percentage
 - Implementing Custom Aggregation
 - Creating Excel Dashboards
 - Using Linked Tables on PivotTables
 - Adding new Data to Existing Tables
 - Defining Sets
 - The User Interface
 - The MDX Editor to Create Static Sets
 - The MDX Editor to Create Dynamic Sets
 - Dynamic Sets at work
 - Static Sets of Measures
- **Advanced DAX Patterns**
 - Advanced Ratio and Percentage
 - Computing Standard Deviation
 - Ranking Over a Measure
 - ABC and Pareto Analysis
 - Event in Progress Pattern
- **Advanced Data Model Patterns**
 - Banding
 - Band Expansion
 - Pure DAX Banding
 - Banding with CALCULATE
 - Courier Simulation
 - Data Loading and Transformation
 - DAX to resolve Complex Relationships
 - Using Many To Many Relationships
- **SharePoint Integration**
 - PowerPivot for SharePoint
 - PowerPivot Gallery
 - Publishing an Excel Workbook
 - Parameters Pane
 - PowerPivot Data Refresh
 - Data Connections
 - User Credentials

Register today at

www.powerpivotworkshop.com

Featured Trainers



Marco Russo

Marco Russo 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.

Marco is also a book author and, apart from his BI-related publications, he also wrote some books about .NET programming. He is also a speaker in international conferences like European PASS Conference and PASS Summit. He is an MCT and has several certifications (MCPD, MCIP, MCTS, MCAD and MCDBA).

Follow his blog at http://sqlblog.com/blogs/marco_russo

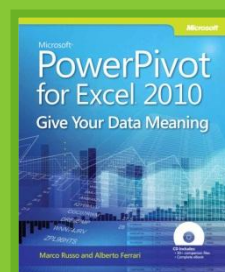
Alberto Ferrari

Alberto Ferrari 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.

Follow his blog at http://sqlblog.com/blogs/alberto_ferrari



*Marco Russo and Alberto Ferrari are the authors of the book **PowerPivot for Excel 2010: Give Your Data Meaning** – Microsoft Press*