



PowerBI for Excel 2013-Report Builders, PowerBI Tools, Data Models, and DAX

Course ISI-1491 - 5 Days - Instructor-led, Hands on

Introduction

Microsoft Power BI, including Power Pivot and Power Query, are a set of free add-ons to Excel that allow users to produce new kinds of reports and analyses that were simply impossible before.

This five-day, instructor led course gives you an overview of Power BI, Power Pivot and Power Query, and then dives into DAX formulas, the core capability of Power Pivot. Always from the perspective of the Excel audience.

This course's concepts and approach are introduced in a simple, step-by-step manner tailored to the learning style of Excel users everywhere. The techniques presented allow users to produce, in hours or even minutes, results that formerly would have taken entire teams weeks or months to produce.

Prerequisites

Students should have the knowledge and skills from Excel levels 1 & 2, including PivotTable & Pivot Chart skills; plus a basic understanding of database concepts.

Course Objectives

- difference between calculated columns and measures
- how formulas can be reused across reports of completely different shapes
- how to merge disjointed sets of data into unified reports
- how to make certain columns in a pivot behave as if the pivot were filtered while other columns do not
- how to create time-intelligent calculations in pivot tables such as "Year over Year" and "Moving Averages" whether they use a standard, fiscal, or a complete custom calendar.
- how to leverage Power Query to make your Power Pivot models awesome!
- how to use Power BI Desktop and PowerBI.com and how they fit into the Excel landscape

Course Outline

Module 1: A Revolution Built On You

Module 2: PowerPivot and the Power BI family: making sense of the various versions

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Module 3: Learning Power Pivot “The Excel Way”

- Loading data into Power Pivot

Module 4: Intro to Calculated Columns

Module 5: Introduction to DAX measures

- The “golden rules” of DAX measures
- CALCULATE() – your new favorite function
- ALL() – The “remove a filter” function

Module 6: Thinking in multiple tables

- Disconnected Tables
- Introduction the FILTER() (Function and disconnected tables continued
- Introduction to Time Intelligence
- IF(), SWITCH(), BLANK(), and other conditional fun
- SUMX() (and other X (Iterator”) functions
- Multiple data tables
- Multiple data tables – differing granularity

Module 7: Performance: keep things running fast

- Power Query to the rescue
- PowerBI Desktop

Module 8: “Complicated” relationships

- Row and filter context demystified
- CALCULATE and FILTER –More nuances
- Time Intelligence with Custom Calendars: Greatest formula in the world

Module 9: Advanced calculated columns

- New DAX functions – and variables
- “YouTube for Data” – the importance of a server
- Can we ask you for a special favor?

Module 10: Power Pivot and SSAS tabular: Two tools for the price of one (again!)

- Cube Formulas – the end of GetPivotData()
- Some common error messages
- People: the most powerful features of Power Pivot