



Excel 2010 PowerPivot for End Users

Course 50433B - 2 Days - Instructor-led, Hands on

Introduction

PowerPivot for Excel is an add-in that you can use to perform powerful data analysis in Excel 2010, bringing self-service business intelligence to your desktop. .

PowerPivot for Excel also includes a wizard that you can use to import data from different sources, ranging from large corporate databases on your intranet, to public data feeds, to spreadsheets and text files on your computer. But PowerPivot for Excel provides significantly different functionality from what is available in an Excel worksheet.

The data that you work on in the PowerPivot window is stored in an analytical database inside the Excel workbook, and a powerful local engine loads, queries, and updates the data in that database. The PowerPivot data can be further enriched by creating relationships between the tables in the PowerPivot window. And because PowerPivot data is in Excel, it is immediately available to PivotTables, PivotCharts, and other features in Excel that you use to aggregate and interact with data.

In addition to the graphical tools that help you to analyze your data, PowerPivot includes Data Analysis Expressions (DAX). DAX is a new formula language that extends the data manipulation capabilities of Excel to enable more sophisticated and complex grouping, calculation, and analysis.

You will also explore how PowerPivot workbooks can be integrated with SharePoint 2010

Course Objectives

After completing this course, students will be able to:

- Import rows of data from multiple data sources into a single Excel workbook
- Create relationships between heterogeneous data for massive data analysis on the desktop, including relational databases, multidimensional sources, cloud services, data feeds, Excel files, text files and data from the Web
- Enjoy fast calculations and analysis
- Power Pivot
- Use powerful new analytical capabilities, such as Data Analysis Expressions (DAX)

Prerequisites

To ensure your success, we recommend you first take the following courses or have equivalent knowledge:

Contact ISInc for more information at 916.920.1700 or by visiting our website at <http://www.isinc.com>



Microsoft Excel 2010 Level 1, Course No. EXL10-1
Microsoft Excel 2010 Level 2, Course No. EXL10-2
Microsoft Excel 2010 Level 3, Course No. EXL10-3

Course Outline

Module 1: PowerPivot Introduction

Lessons

- PowerPivot Introduction

Lab : Installing PowerPivot

- Install PowerPivot for Excel

After completing this module, students will be able to:

- Install PowerPivot for Excel
- Be able to navigate the PowerPivot windows
- Understand the new features of Excel 2010

Module 2: PowerPivot Data Sources

Lessons

- Supported Data Sources

Lab : Loading Data Sources

- Load Data From SQL Server
- Load Data From Text Files
- Load Data via Copy and Paste
- Load Data via Data Feeds
- Load Data via Reporting Services

Lab : Cleaning Data

- Cleaning data in PowerPivot

Lab : Creating Relationships

- Create Relationship between Data Sources

After completing this module, students will be able to:

- Import various data sources into PowerPivot
- Understand how to clean imported data

Module 3: PowerPivot Functions

Lessons

- PowerPivot Expressions

Lab : Create a Time Table

- Create a Time Table for future labs

Lab : Using DATE Functions

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- Use DATE Function
- Use DATEVALUE Function
- Use the DAY, MONTH, YEAR, HOUR, MINUTE, SECOND Functions
- Use EDATE Function
- Use EOMONTH Function
- Use NOW and TODAY Functions
- Use TIME and TIMEVALUE Functions
- Use WEEKDAY and WEEKNUM Functions

Lab : Using TIME INTELLIGENCE Functions

- Use FIRST* and LAST* Functions
- Use DATE* Functions
- Use STARTOF* and ENDOF* Functions
- Use CLOSING* and OPENING* Functions
- Use LASTOF* and FIRST* Functions
- Use PREVIOUS* and NEXT* Functions

Lab : Using STATISTICAL Functions

- Use AVERAGE* Functions
- Use COUNT* Functions
- Use MAX* and MIN* Functions

Lab : Using VALUE Functions

- Use ALL, ALLEXCEPT and ALLNOBLANKROW
- Use CALCULATE, CALCULATETABLE
- Use DISTINCT
- Use EARLIER and EARLIEST
- Use FILTER
- Use REALTED, RELATEDTABLE
- Use VALUES

Lab : Using LOGICAL and INFORMATION Functions

- Use Logical Functions (AND, FALSE, IF, IFERROR, NOT, OR, TRUE)
- Use Information Functions (ISBLANK, ISERROR, ISLOGICAL, ISNONTEXT, ISNUMBER, ISTEXT)

Lab : Using TEXT Functions

- Use TEXT Functions

After completing this module, students will be able to:

- Be able to describe all the new PowerPivot Expressions
- Use and apply many of the PowerPivot Expressions

Module 4: Building Reports using PowerPivot

Lessons

- PowerPivot Reports

Lab : Creating Reports

- Use PivotCharts
- Use Slicers
- Use Sparklines

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After completing this module, students will be able to:

- Describe the different Report types in PowerPivot
- Be able to create Slicers and Sparklines for more engaging reports

Module 5: PowerPivot for SharePoint 2010

Lessons

- Reports and Email
- PowerPivot for SharePoint 2010

Lab : Installing PowerPivot for SharePoint 2010

- Install PowerPivot for SharePoint 2010
- Configure PowerPivot for SharePoint

Lab : Configuring PowerPivot For SharePoint 2010

- Publish to SharePoint 2010
- Configure PowerPivot for SharePoint 2010

After completing this module, students will be able to:

- Describe the integration points between PowerPivot and SharePoint 2010
- Be able to publish and setup workbook data refresh in SharePoint 2010