

Course Overview:

Microsoft Power Pivot is a data modeling technology that lets you create data models, establish relationships, and create calculations. With Power Pivot you can work with large data sets, build extensive relationships, and create complex (or simple) calculations (DAX), all in a high-performance environment, and all within the familiar experience of Microsoft Excel. Microsoft Power Query is a data connection technology that enables you to discover, connect, combine, and refine data sources to meet your analysis needs. Features in Power Query are available in Microsoft Excel and Microsoft Power BI Desktop.

Course Content:

Microsoft Excel's Data Model

- Understanding the Data Model from Multiple Excel Tables
- Working with Relationships
- Using Pivot Table with Data Model as Source

Gathering Data

With Power Pivot

- Enabling Power Pivot
- Exploring the Power Pivot Window
- Using the Table Import Wizard with:
 - Microsoft Excel
 - Text or CSV
 - Microsoft Access

With Power Query (Get and Transform)

- Exploring Query Options
- Connecting to a Web page
- Connecting to a folder
- Connecting to Excel
- Importing from Other Sources

Transform Data (Query Editor)

- Using Shape and Filter
- Working with Query Actions
- Using Merge and Append
- Using Unpivot Columns
- Creating Conditional Columns
- Using Column by Example
- Creating Formulas

Create and Manage Relationships (Power Pivot)

- Understanding types of Relationships
- Exploring the Diagram view
- Using the Create Relationship Dialogue Box
- Using the Manage Relationships Dialogue Box

Data Modelling (DAX)

- Creating Calculated Columns
- Calculating Measures
- Calculating in PivotTables
- Calculating in the Data Model
- Working with Key Performance Indicators
- Creating Dynamic Reports
- Understanding Pivot Tables and Pivot Charts from Data Model
- Utilizing Slicers and Timelines
- Applying Conditional Formatting
- Showing visual data trends with Sparklines
- Publishing to Power BI (if time)