

Advanced Excel Training Center



Data Visualization with Pwer BI & Tableau

Cover Topic

Excel Part Duration 8 Hours

Pivot Table
 Slicer in Pivot Table
 Power Pivot
 Power Pivot Function
 Power Query
 SQL Query in Power Query

Total Duration	25 H	2 Month	Mon-Fri - 1 Hours or Sat-Sun 2H
Fees	6000/-		

Power BI

Basic Fundamental

Understanding the Power BI Tools
 Installing Power BI Desktop and Connecting to Data
 Working in the Query Editor
 Working in the Data Model and Creating a Visualization
 How to use the Attached Project Files

Power BI Desktop

Workflow in Power BI Desktop
 Introducing the Different Views of the Data Model
 Taking a Closer Look at the Query Editor Interface
 Before we Dive Deeper: Required Power BI Settings

Query Editor

What is the Query Editor?
 About the Attached Project Files
 Connecting Power BI Desktop to our Data Sources
 Editing Rows
 Understanding Append Queries
 Editing Columns
 Replacing Values
 Formatting Data
 Pivoting and Unpivoting Columns
 Splitting Columns
 Creating a New Group for our Queries
 Star Schema
 Duplicating and Referencing Queries
 Creating the DIM Region Table
 Entering Data Manually
 Merging Queries
 Finishing the DIM Region Table
 Introducing the DIM AgeGroup Table
 Creating an Index Column
 Duplicating Columns and Extracting Information
 Creating Conditional Columns
 Creating the FACT Population Table
 Performing Basic Mathematical Operations
 Improving Performance and Loading Data into the Data Model
 Module Summary
 Do Project

Data Model: Data & Relationship View

Module Introduction
 Query Editor vs. Data Model
 Introducing and Understanding Relationships
 Editing Relationships
 Understanding Cardinality
 Cross Filter Selection and Many-To-Many Relationships
 Active Properties
 Understanding the differences between the M-Language and DAX
 M vs. DAX applied: Calculated Columns
 M vs. DAX: Conclusion
 DAX - Basic information
 DAX and Calculated Columns
 Calculated Columns vs. Measures
 Introducing DAX-Measures
 DAX-Measures Continued
 Categorizing Data
 Module Summary
 Live Project

Report View to Visualize

Module Introduction
 Understanding the Interface of the Report View

- Creating our First Visualizations
- Editing Interactions and Adding Tooltips
- Adding Data Colors
- Understanding Hierarchies and Adding Drill-Down
- Formatting Charts and Sorting
- About the Slicer
- Introducing Slicers
- Adding Treemaps and Tables
- Applying different Filter Types
- Creating (Multi-Row) Cards
- Understanding Combined Visualizations and Waterfalls
- Module Summary
- Time to Practice - Visualizations
- Power BI Service & Power BI Mobile
 - Module Introduction
 - Continuing our Work and why we need Power BI Service
 - Comparing Power BI Free, Pro and Premium
 - Logging in to Power BI Service
 - Understanding the Interface
 - Importing our Data from Power BI Desktop to Power BI Service
 - Understanding the Dataset Menu
 - Working on Reports
 - Introducing Dashboards
 - Exploring our Workspace
 - Understanding Gateways
 - Comparing Personal and On-Premise Gateway and Installing a Gateway
 - Working alone or Collaborating with Colleagues
 - Collaborating in App Workspaces
 - Sharing the Results
 - Publishing the App
 - Content Packs from Online Services
 - Power BI Mobile: Installing and Understanding the Mobile App
 - Module Summary
- Other Data Sources
 - Module Introduction
 - Importing JSON Data
 - Importing Data from REST APIs
 - Preparation: Setting up a MySQL Server
 - Importing Data from a MySQL Server (and other SQL Servers)
 - Wrap Up
- Creating Custom Visuals (Power BI for Developers)
 - Developer Prerequisites
 - Module Introduction
 - How do Custom Visuals Work?
 - Using Data Driven Documents (D3)
 - Please Read - Creating & Installing a Certificate
 - Creating and Using a Visual
 - Installing an IDE (Code Editor)
 - Understanding the visuals.ts File
 - Understanding the Project Structure
 - Installing d3.js (Data Driven Documents)
 - Adding a First Shape
 - Connecting Shapes to Data
 - Scaling Shapes
 - Managing Visual Capabilities to Allow Data Input
 - Starting the Data Extraction
 - Limiting the Data Input
 - Extracting Data
 - Displaying the User Data
 - Optimizing the Code
 - Adding Dynamic Coloring
 - Making Bars Selectable (Cross-Visual)
 - Adding X-Axis Labels
 - Adding Custom Visuals Settings
 - Extracting the Visual Configuration
 - Informing Power BI About the Custom Configuration
- Final Project