

Microsoft Power BI Interactive Data Visualizations

Course Details

Course Outline

1. Power BI

- What is Power BI?
- Examining Power BI Suite of Products
- Identifying Differences Between Products
- Understanding Power BI Updates
- **Lab : Power BI**

2. Power BI Desktop

- Installing Power BI Desktop
- Exploring the Power BI Desktop Interface
- Utilizing File Types; PBIX vs PBIT
- Examining Data Sources
- Discussing Data Refresh
- Understanding Data Types
- **Lab : Power BI Desktop**

1. Introduction to Power BI

3. Working with csv, txt and Excel Worksheets

- Importing Data
- Transforming Data
- Loading Data
- Appending Operations
- Working with Folders and Files
- Using Pivot Tables
- **Lab : Working with csv, txt and Excel Worksheets**

1. Importing, Transforming, and Loading Data

2. Appending Operations

3. Working with Folders and Files

4. Using Pivot Tables

4. Connecting to Databases

- Working with Relational Data

- Understanding Relationships
- Importing from SQL Server Analysis Services Multidimensional and Tabular

- **Lab : Connecting to Databases**

1. Importing From SQL Server and Examining Relationships
2. Importing From SSAS Multidimensional

5. Merging, Grouping, Summarizing, and Calculating Data

- Understanding the Issues with Merges
- Performing Merges
- Grouping Options
- Summarizing
- Calculating

- **Lab : Merging, Grouping, Summarizing, and Calculating Data**

1. Performing Merges
2. Grouping and Summarizing
3. Calculating

6. Reporting

- Creating Reports
- Utilizing the Matrix Visualization
- Utilizing the Map Visualization
- Utilizing the Card Visualization
- Utilizing the Chart Visualization
- Utilizing Slicers
- Publishing to Power BI Online

- **Lab : Reporting**

1. Creating Reports
2. Utilizing the Matrix Visualization
3. Utilizing the Map Visualization
4. Utilizing the Card Visualization
5. Utilizing the Chart Visualization
6. Utilizing Slicers
7. Publishing to Power BI Online

7. Power BI Online

- Introduction to Power BI Online
- Importing Data

- Creating Reports
- Configuring Dashboards
- Sharing Reports and Dashboards
- Exploring Power BI Mobile
- **Lab: Power BI Online**
 1. Exploring the Power BI Online Interface
 2. Importing Excel (.xlsx or .xlsm), Comma Separated Value (.csv), and Power BI Desktop (.pbix) Files
 3. Creating a Report
 4. Adding Filters to a Report
 5. Adding KPIs to a Report
 6. Creating a Dashboard
 7. Pinning Tiles