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YOUR COURSE, YOUR WAY - MORE EFFECTIVE IT TRAINING

Introduction to Power BI

Duration: 3 days

Overview:

This course is aimed at anyone who wishes to get started with designing, creating and publishing a Power BI Business Intelligence solution.

The course covers the loading and transforming of source data, the building of a tabular data model that provides a collection of related tables of data offering common hierarchies and measures used in the day to day analytics of business data and performance, the creation of reports, the publishing of datasets and reports to Office 365 Power BI, the creation of Dashboards presenting key visualisations, and the sharing of Dashboards and Reports to those that need them.

Power BI employs the functionality of Power Query, Power Pivot and Power View behind the scenes so if you have used any of these add-ins from within Excel you may have met some Power Bi features and tools already. This course is also suitable for those who intend to use the individual components as Excel Add Ins.

Prerequisites:

There are no specific technical pre-requisites for this course, but a familiarity with Excel and/or Relational Database Technologies may be beneficial. The main pre-requisite is to have a basic understanding of your business's need to collect, cleanse, analyse and deliver insights and visualisations of your business data.

Topics:
1 - Introduction To Power BI
Microsoft SelfService Business Intelligence
Importing data
Modelling Data
Creating Dashboards & Reports
Installing Power BI Desktop
Creating Your First Power BI Project
Discovering & Loading Data with Power BI Desktop
Data Sources: Files, Databases, Azure, Web Pages, Other Sources
Refreshing Data & Queries
2 - Transforming datasets

Power BI Desktop Queries

Transforming Source Data: Cleansing, Deduplicating, Merging Deriving New Columns, Removing Rows and Columns Transposing Columns, Unpivoting Columns Filtering Rows Data Cleansing Query Editor Context Menus Data Typing Columns Replacing Values Filling Down Using First Rows as Headers Grouping Records 3 - Data Mashup Power BI Desktop View Ribbon **Duplicating Columns** Splitting Columns Merging Columns Creating Custom Columns Adding Index Columns Merging and Adding Data Aggregating Data on Merging Appending Data Unpivoting & Pivoting Data Transposing Rows and Columns Removing Error and Blank Rows **Duplicating Queries** Managing The Transformation Process with Applied Steps Applying Changes to Queries 4 - Creating a Data Model Data Modelling in the Power BI Desktop Environment The Power BI Desktop Data View How Do We Decide Whether To make Changes in the Data Model or Query The Modelling Ribbon Manipulating Tables Manipulating Columns

Data Types

Formatting

Categorising

Default Summarisation Function: Sum, Count, Max, Min, Average, etcâ€₁

Column Sort Orders

Relationships

Data View and Relationship View

5 - Extending the Data Model with Calculated Columns

Types of Calculations New Columns Naming Columns String Expressions Arithmetic Expressions Calculating Across Tables Refreshing Data Using DAX Functions Simple Logic: IF() Function 6 - Adding Measures to the Data Model Basic Aggregations in Measures: Sum, Count, Max, Min, Average, etcâ€₁ CrossTable Measures Advanced Aggregations: CALCULATE Filtering Data in Measures: Column Filters, ALL, ALLEXCEPT, ALLSELECTED, FILTER Ranking 7 - Analysing Data Over Time Simple Date Calculations Date & Time Formatting Calculating Age and Difference Adding Time Intelligence to a Data Model Date Tables Time Intelligence DAX Functions Data as a Ration Over Time Comparisons With Previous Periods **Rolling Aggregations** 8 - TextBased Visualisations

Power BI Desktop Dashboards

Switching to Report View Creating Tables Enhancing Tables: Totals, Formatting, Titles, Fonts, Colours, etc. Creating a Matrix Row Matrix Column Matrix Creating Cards Switching Between Table Types

9 - Charts in Power BI Desktop

Creating Charts

Basic Chart Modification

Basic Chart Types: Line, Pie, Column, Bar

Enhancing Charts

Other Chart Types: Donut, Funnel, Stacked Column and Bar, Scatter, Bubble, Waterfall, DualAxis, Clustered

Drill Down

10 - Other Types of Visuals

Maps

Bing Maps

Using Geographical Data Types

Enhancing Maps

Tree Maps

Gauges

Additional Visuals: The Power BI Visuals Gallery

11 - Filtering Data

VisualLevel Filters

Page Filters

Report Filters

Text Filters

Numeric Filters

Date Filters

12 - Using Slicers

Adding Slicers

Applying Slicers

Formatting Slicers

Using Charts as Slicers

Cross Chart Highlighting

Charts as Filters

13 - Enhancing Dashboards

- Adding Text Boxes
- Adding Hyperlinks
- Adding Images
- Adding Shapes
- Layering Visuals

14 - PowerBI.com

- Publishing Reports to PowerBI.com
- Creating a Power BI Account
- Interacting With Reports in PowerBI.com
- Creating PowerBI.com Dashboards
- Adding Tiles to Dashboards
- Sharing Dashboards
- App Dashboards
- Creating New Reports in PowerBI.com
- PowerBI.com Gateways
- Adhoc and Scheduled Data Refresh

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