This one-day course is designed for new users of this exciting Microsoft Program. It will provide participants with a thorough foundation in the principles of connecting to, modelling and visualising data.

This course is run on a bespoke basis, giving you the opportunity to tailor the course to your exact requirements. To provide a starting point, we'd recommend you use the suggested course outline as a guide only.

The course runs from 9.30 am to approximately 4.30 pm.
Duration: 1 day.

Introduction to Power Bi Interface
Importing data types
Linking to excel documents
Web pages
Principles behind linking to SQL servers
Updating and managing links

Working with the query editor
The query editor interface
Connecting data via the query editor
Understanding the applied steps feature

Combining Data sources
Appending data
Merging multiple sheets with different columns
Creating relationship between data queries
Understanding Join types
Data Relationship in Power Bi

Understanding relationship concepts
Autodetect relationship
Creating Manual Relationship
The relationship views
Visualising data
Exploring available visuals
Creating a data table
Formatting a visual

Filters and Interaction
Controlling interaction between visuals
Visual filter
Page level filters
Report Level Filters
Using Slicers

Publishing and sharing dashboard
Explaining different Power Bi Accounts
Creating a PowerPoint from Bi report
Adding visuals to a dashboard
Intro to App workspace

Our Dax training course for Microsoft Power BI is aimed at Power BI users who are looking to get even more out of this popular tool. We will show you how to use Power BI's functionality to produce stunning visuals and how DAX can be used in order to create complex calculations which will allow you flexibility beyond that offered by the standard toolset.

A number of optional topics exist which can be requested for private courses, depending on your organizations business requirements.

Audience

Business Analysts, Financial Analysts, Data Scientists and Staff who already use Power BI or who have attended our introduction course and who need to explore its features in more depth. Developers and Super Users/ Power Users looking to get more out of Power BI

Learn to build Dashboards like this - Typically used for CFO Dashboards, Revenue & Profitability, Expense Management, Financial Planning & Analysis, Sales, Stock Control, Risk & Compliance Analysis...

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The course runs from 9.30 am to approximately 4.30 pm.
Duration: 1 day.

DAX
DAX Basics review
Table Functions
Evaluation Contexts
Filter and Row Context

Data modelling
Creating a Bridge Table
Role Playing Tables with DAX
Role Playing Tables without DAX
Mismatched Granularies

Calculate
Evaluation Contexts and Relationships
Time Intelligence Calculations
DAX as a Query Language: use of DAX Studio
Advanced Table Functions
Advanced Evaluation Context DAX (Understanding Cross filters)
Calculations over Hierarchies
Parent/Child Hierarchies
Creating Dynamic titles
Using parameter table
Capturing and debugging queries with Dax Studio

Power BI is a business analytics service provided by Microsoft. It provides interactive visualizations with self-service business intelligence capabilities, where end users can create reports and dashboards by themselves, without having to depend on any information technology staff or database administrator.

The course runs from 9.30 am to approximately 4.30 pm.
Duration: 1-2 day Intro.

Day 1

Getting Started
Power BI Editions, The three key elements of Power BI, Dashboards, reports and datasets, Exploring the Power BI sample data sets

Connecting to File Sources
Connecting to CSV files, Connecting to Excel data, Importing Excel data, Connecting to a folder of data

Connecting to Web Sources
Recognizing standard text formats, Using web preview, Connecting to web tables, connecting to a SharePoint list

Connecting to Databases
Connecting to Microsoft Access data files, Connecting to Access online data sources, Connecting to SQL Server, Making a live connection to SQL Server

Cleaning up and transforming data
Using the Query Editor, Understanding query steps, Renaming columns, Reordering and deleting columns, Changing data types, Unpivot Columns, Replace Values, Append Queries, Merge Queries, Grouping data

Parameters and templates
Parameterization of data sources, Using parameters when transforming data, Creating Power BI templates

Data modelling
Automatic detection of relationships, Defining relationships manually, Cross filter direction, Creating calculated columns, Creating measures, Creating calculated tables, Creating hierarchies, Writing DAX functions

Creating Visualizations
Creating and populating visualizations, Formatting visualizations, Tooltips, Moving and aligning visualizations, Duplicating visualizations, Adding logos and images, Adding text and hyperlinks

Big picture Visualizations
Cards and gauges, Using slicers, Using filters, Understanding visual level, page level and report level filters, Specifying visual interactions

Granular Visualizations
Creating column and bar charts, Creating line and area charts, Creating scatter charts, Treemap visualizations, Using charts as slicers, Creating drill-down experiences

Power BI Introduction - 2

Day 2

Using Context Manipulation Functions
Understanding row context, Understanding filter context, The SUMX function, The ALL function, The FILTER function, The CALCULATE function

Using Table Functions
The COUNTROWS function, The DISTINCT function Using Time Intelligence Functions Creating a date table, The TOTALYTD function

Geo Visualizations
Using maps with geographical data

Analytics
Adding trendlines, Ading reference lines

Using Custom Visuals
Obtaining custom visuals, Chiclet Slicer, Hierarchy Slicer, Pulse Chart, Synoptic Panel by SQLBI

Creating Reports and Dashboards
Creating multipage reports, Publishing Power BI Desktop reports, Creating dashboards, Printing and exporting dashboards and reports, Getting Quick Insights

Publishing content
Creating Groups in the Power BI service, Creating content Packs, Assigning groups to content packs, Sharing dashboards with your organization, Publishing reports to the web, Embedding a report in a web page, Embedding a report in a SharePoint page

Consuming and customizing content
Browsing group content, Using content packs, Creating read-only versions, Querying with natural language, Creating custom Q & A suggestions

Refreshing content
Setting up a personal gateway, Customizing dataset refresh settings, Scheduling a refresh frequency, Setting up enterprise gateways, Managing enterprise gateways, Adding and removing data sources, Creating live connections to data, Using row level security

Discuss your own projects
Discussion of reports and visualizations currently being worked on by yourself and your colleagues

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