

# Advanced Power BI Data

## 2 day training course



## Course contents

This course will cover the following topics. Those marked with (\*) will be covered if time allows.

### Column transforms

- Splitting (3 methods)
- Extracting data
- Merging columns

### Creating columns

- Columns by example
- Custom columns in M
- Conditional columns
- Index columns

### Combining queries

- Combining files from folders
- Merging queries
- Fuzzy merge
- Appending queries

### Manipulation transforms

- Pivoting and unpivoting
- Grouping queries
- Transposing data

### Normalising tables

- Getting unique lists
- Adding id numbers
- Replacing text with id numbers
- Final relationships

### Dealing with errors

- Data profiling
- How Power Query handles errors
- Fixing errors in situ
- Fixing in a separate table

### Dataflows

- Creating dataflows
- Using dataflows in Power BI Desktop

### Simple parameters

- Creating parameters
- Switching data sources
- Using to filter data
- Parameters and templates

### Dropdown parameters

- Dropdowns based on lists
- Dropdowns based on queries

### Stored procedures

- Loading from stored procedures
- Dynamic parameters

### Row-level security

- Creating roles
- Creating DAX permissions
- Testing roles

### Dynamic connections

- Dynamic SQL Server connections
- Dynamic Excel workbook links
- Dynamic worksheet links

### Custom functions

- How custom functions work
- Case study - parsing postcodes
- Case study - combining worksheets
- Case study - combining webpages

### APIs (\*)

- How they work
- Simple examples
- Exchange rates
- Bridging tables

### Power Apps and Power BI

- Data constraints
- Adding a Power Apps visual
- Embedding Power Apps visuals

### Power Automate and Power BI

- Power Automate visuals
- Creating and assigning flows
- Formatting your button

### Loading HTML (\*)

- The HTML.Table function
- Scraping websites in Power Query

### JSON and XML (\*)

- Parsing JSON
- Expanding your results

### Data insights (\*)

- Language detection
- Key phrases
- Sentiment analysis
- Image tagging

## Pre-requisites for Advanced Power BI Data course

To attend this course you must be familiar with creating Power BI reports, and in particular must be familiar with transforming data using Power Query Editor.

### Prices

Venue	Address	Price per place
<a href="#">London</a>	Landmark, 99 Bishopsgate, London EC2M 3XD	£1,525 per person + VAT
<a href="#">Manchester</a>	Holiday Inn, 25 Aytoun Street, Manchester M1 3AE	£1,150 per person + VAT
<a href="#">Online</a>	Your home or office!	£995 per person + VAT

### Scheduled Dates

Dates	Venue	Times	Price per place	Booking
Thu/Fri 07-08 August 2025	Online	09:30-16:30	£995 + VAT	<a href="#">Book this</a>
Thu/Fri 04-05 September 2025	Online	09:30-16:30	£995 + VAT	<a href="#">Book this</a>
Mon/Tue 29-30 September 2025	Online	09:30-16:30	£995 + VAT	<a href="#">Book this</a>
Tue/Wed 28-29 October 2025	Online	09:30-16:30	£995 + VAT	<a href="#">Book this</a>
Thu/Fri 27-28 November 2025	Online	09:30-16:30	£995 + VAT	<a href="#">Book this</a>

If you can't see the dates that you want, ask us about organizing a customized course at your office (we'll provide and set up the computers), or else an online course tailored to your needs.