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