



Power BI Fundamentals

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Power Query

- Introduction to the world of self-service BI
- Overview of Power Query Editor
- Getting data from different sources
- Power Query Editor logic – M language, Applied Steps
- Data Types – good optimization practices
- Data Transformations – automation of data preparation process
- Merging Queries – Join Kinds explained
- Appending Queries
- Query Dependencies
- Introduction to Advanced Editor
- Pivot/Unpivot Columns
- Common data transformation pitfalls

Data Model

- Overview of Power BI Desktop
- Data types, data formats, data categories
- Building relationships between tables – cardinality (one-to-many 1:*, many-to-one *:1, one-to-one 1:1, many-to-many *:*), cross filter direction (single, both)
- Grouping data
- Building data hierarchies

DAX

- Fundamental DAX concepts – row context vs filter context
- Explicit vs implicit measures
- Calculated columns vs measures – differences, performance implications
- Working with most useful DAX functions
- Working with Time Intelligence functions – requirements and limitations

CALCULATE
FILTER
ALL
DIVIDE
IF
SWITCH
VAR & RETURN

PREVIOUSMONTH
DATEADD
AVERAGE
AVERAGEX
SUM
SUMX
SELECTEDVALUE

Visualisations

- Creating powerful visualisations – column chart, bar chart, line chart, pie chart, gauge, ribbon chart, waterfall chart, KPI cards, table, matrix, animated chart
- Displaying geographical data
- Conditional formatting
- Editing interactions between visuals
- Filtering options – visualisations, slicers, filter panel
- Synchronising slicers
- Different use-cases of bookmarks – clear all filters, move to different page, hide/show visuals

Other

- Publish to Power BI Service
- Integration with Microsoft Teams

**Other additional features depending on the group requests and the available time*

See you soon!