



Power BI

Intermediate 1 Day Course

Power BI

An introduction to the different Power BI Products
When to use Power BI Desktop
Online Services and Databases that Power BI can connect to

The BI Process

The Business Intelligence process
How Power BI relates to the standard BI processes.

Power Query

The Power Query process
Data transformation principles
A demonstration of how Power Query can cut down on time-consuming and repetitive data cleaning in Excel
Dimension and Fact Tables

Power Query UI

Queries Area
Data section
The Transformations Ribbons
Query Settings Area
M Language Area

Data Source

Creating Tables of Data
Import data from Excel
Import data from Web
Renaming Queries
Grouping Queries

Column Transformations

Adding Custom Columns
Renaming Query Steps
Changing Text Data Column Case
Duplicating Columns
Renaming Columns
Splitting Columns
Creating Conditional Columns
Creating Index columns
Reordering Columns
Using the Navigate to Column tool
Creating Date columns from Date/Time Columns

Data Transformations

Removing rows from Tables
Using first row as headers
Filtering data
Detect and change data type
Filling Null areas with values
Trimming text
Replacing values

Date Transformations

Extracting year
Extracting quarter
Extracting month
Extracting date

Unpivot data

Unpivot columns
Unpivot other columns
Unpivot selected columns

Append and Merge Queries

Append Queries
Merge Queries
Merge Query Types

Load data

Including and Excluding Queries in report refresh
Enabling or disabling Query loading
Applying Queries
Viewing Query dependencies

Reinforcement Exercise 1

Data Modelling

Introduction to data modelling
Relationship view
Hiding Tables in Report View
Auto detecting relationships
Cardinality and Cross Filtering
Creating relationships through Manage relationships
Changing Cross Filtering
Deleting relationships
Drag and drop to create relationships

DAX

An introduction to DAX
Comparing M Language to DAX

Comparing Measures to Calculated columns
SUM measures
Creating a Calculated column using the IF function
Filter Propagation
Filter Context

Functions

Functions identical to Excel
FORMAT function
Sorting Columns
The 'X' functions
Row Context
SUMX function
AVERAGEX function
CALCULATE function
DAX Logical Operators
CALCULATE with multiple filters
Using measures in Visuals
Create a measure using FILTER function
MINX function
COUNTX function
ALL and ALLSELECTED functions

Time Intelligence Functions

Functions that return a single date
Using the FIRSTDATE function
Functions that return a table of dates
Using the DATEADD function to create a Month on Month measure

Quick Measures

Enabling Quick Measures
Creating a Year to Date Quick measure
Creating a Year to date measure with 30/6 as end of year date
Creating a Quick measure from a Filter

Advanced Visualisations

Creating Filters from Calculated Columns
Create variance measures
Using variance measures in a Waterfall chart
Create drill down time series chart

Product Information



Power BI

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- Drill down chart interaction
- Create drill down bar chart
- Create an animated Scatter plot chart
- Creating What if Parameters
- Using What if parameters in a chart
- Enabling Q & A in Power BI Desktop
- Create a visual with Q & A
- Create a drill through process to a focussed report page
- Using Bookmarks in Power BI Desktop
- Using Cross Filtering in Reports
- Using Spotlight for Visualizations

Dynamic Web Queries Using Parameters

- Importing a web query using parameters
- Creating a custom function
- Defining a List to create a new Query
- Invoking custom functions
- Using Error checking processes

Reinforced Learning – DAX

Power BI service

- Create Row Level Security roles
- Test Row Level Security in Power BI Desktop
- Create Multiple Filter Roles
- Create Workspace Apps
- Publish to a Workspace
- Sharing workspace apps
- Testing Workspace App in the Power BI service
- Assigning Members to roles
- Editing Workspace Apps
- Creating reports in workspace apps
- Getting Apps from your Organisation
- Sharing to External Users through Microsoft Azure

Extra Processes

- Using the Group By feature
- Removing Rows in a Query by
- Filtering when your data changes
- Comparing Multiple Scenarios through Waterfall Charts