Power BI
A history of Business Intelligence
The development of Self Service
Business Intelligence
Introducing Power BI
How does Power BI fit in?
Introducing the three main tools – Power BI Service, Power BI desktop & Power BI Mobile
When to use Power BI Desktop Free versus Pro
Signing up to the Power BI online service
Which sources of Data can I use in Power BI Desktop? Content Samples

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

Data Model & Transformation
The Power Query process
Data transformation principles
Manual data clean-up example
A demonstration of how Power Query helps with efficient use of data query
Dimension and Fact Tables
Data Model considerations
Common Data Models

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

Data Source
Introduction to the data source used in this course
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
Disabling Auto Date/Time
Extracting year
Extracting quarter
Extracting month
Extracting date
Filter dates

Unpivot data
Unpivot columns

Append and Merge Queries
Append Queries
Merge Queries
Merge Query Types
Cleaning the resulting query

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

Data Modelling
Introduction to data modelling

Relationship 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
Referring to and Using Measures and Calculated Columns
Creating a simple SUM measure
Creating a Calculated column using the IF function
Simple DAX functions
The X Functions as iterators
Comparing SUM to SUMX
A use for AVERAGEX

Quick Measures
Introduction to Quick Measures
Quick Measure Categories
Aggregate per Category
Filters
Fine tuning the Quick Measure Totals
Arithmetic
Text

Time Intelligence Functions
Visuals for Date / Time Reporting
Create a column for abbreviated month
Mark as Date Table
Quick Measure for Year to Date
Quick Measure for YTD with different year end
Quick Measure on an existing measure using YTD

Advanced Visualisations
Introduction to Waterfall charts
Create variance measures
Intermediate Desktop 1 Day Course

Using variance measures in a Waterfall chart
Create drill down time series chart
Drill down chart interaction
Create drill down bar 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
Using Bookmarks in Power BI Desktop
Bookmarks to filter data
Bookmarks to change visuals
Add buttons to access bookmarks

Extended Topic B – Query Parameters (Dynamic Web Query)
- 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
- Cleaning queries
- Create measures and visualise queried data

Extended Topic C – Group By
Using the Group By feature

Power BI Templates & Parameters
- Introduction to parameters in templates
- Enabling parameters in queries and transformations
- Creating a template file based on existing query and report
- Add a transformation parameter to the template

Power BI Desktop
- Introduction to Power BI and Excel
- Ability to work with Desktop and Excel
- Analyse a Power BI Desktop data model in Excel
- Create a Power Pivot data model in Excel
- Add a KPI based measure to the data model
- Import the Excel data model to Desktop including the KPI

Extended Topic A – Transformations
- Opening files and checking connections
- Examine the underlying data
- Find and Replace
- Unpivot & Rename

Data Normalisation Appendix
- The Normal Forms
- 1st Normal Form
- 2nd Normal Form
- 3rd Normal Form
- Primary Keys
- Relationships

Product Information

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