

# Data Analytics with Power Bi

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## Introducing the Power BI Ecosystem

- Desktop, Service and Mobile
- Installing and setting up Power BI
- Setting up a MS Power BI account

## Getting started with Power BI Desktop

- Visualisation and Fields Panes
- Create visualisations with Report View
- Sort and format data with Data View

## Power BI Desktop and Data sources

- How to import from various data sources
- Connectivity with MS Office apps - Excel, Access
- Using other data sources such as databases and CSV Files

## Power BI Desktop to create Data Models

- Getting to grips with the Data Model
- Using the Relationship View
- Many-to-one relationships
- Filter propagation

## Power BI Desktop for Visualisation Workshop

- Adding visualisations to Report Canvas
- Managing visualisation relationships
- Drill Down and Drill through techniques
- Use of Hierarchies
- Importing and using custom visualisations

## Power BI Desktop and DAX

- Custom calculation and the Data Model
- Calculated Columns and Measures
- Evaluation Context
- CountRows and DistinctCount Functions

## **Power BI Desktop and Advanced DAX functions**

- SUMX and CALCULATE
- Time Intelligence functions

## **Power BI Desktop and Queries**

- Data import and the role of Queries
- ETL: Extract, Transform and Load
- Data transformations
- Using Applied Steps
- Query Parameters

## **Power BI Service Publishing**

- Report publishing to PowerBI.com
- Dashboards
- Quick Insights
- Data searching with Q&A

## **Power BI Service and Importing Cloud-based Data**

- Google Analytics
- OneDrive
- Azure SQL Websites and Databases

## **Power BI Service and Excel PowerPivot**

- Creating a PowerPivot Data Model
- Import data from PowerPivot to Power BI Service
- Using PowerPivot data to create visualisations in Power BI Service

## **Sharing Data with Power BI**

- Share interactive Power BI dashboards
- Share through Power BI, PowerPoint, the web and other mediums
- Content Packs