

# Advanced Power BI

## Course 9298 – 24 Hours

### Overview

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This Advanced Power BI workshop is a powerful way to take your Power BI reports to the next level. Best Practices for ETL, Date modeling, visualizations and Navigation. Also, we will learn some particle Patterns.

### On Completion, Delegates will be able to

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- Create Datasets from multiple sources and make effective using Dax Patterns.

### Who Should Attend

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- Analysts, IT

### Prerequisites

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- Experience of building Power BI Reports

### Course Contents

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- **Working with Data Models in Power BI**
  - Importing a variety of data sources into Power BI Desktop.
  - Working with Model layouts
  - Creating Many-to-One relationships.
  - Understanding the Data Model.
  - Understanding the importance of Star Schemas.
  - Exploring Outer Joins, inactive relationships and bi-directional filtering
- **Advanced Queries**
  - Using the Merge and Append Queries options.
  - Using the Connection to Folder to append.
  - Using Unpivot, Transpose and Pivot transformations
  - Creating Query Parameters
  - Managing and editing Parameters
  - Using a List as input for Parameters
  - Understanding Disable Load
- **DAX Measures**
  - Understanding Implicit Measures.

- Controlling summarisation in Implicit Measures.
- Looking at explicit Measures.
- Understanding Filter Context and Filter propagation
- Working with a variety of DAX functions: DISTINCTCOUNT, COUNTROWS, SUMX and CALCULATE.
- Create parameters (What if)
- Time intelligence (MoM, YoY, YTD, LY YTD, Moving Average)
- IF, HASONEVALUE
- SWITCH, Switch( true())
  
- **Advanced Analytics**
  - Pareto Categories
  - Segmentation - Customer Size
  - Top 9 + Other (RANKX)
  - Moving Averages
  - Non Equal Date Periods
  - Time KPI's
  
- **Power BI App Workspaces**
  - Generating App Workspaces
  - Linking Workspaces with OneDrive
  - Sharing and Managing Workspaces
  - Creating Apps from Workspaces
  - Sharing and Managing Apps
  
- **Row Level Security (RLS)**
  - What RLS does
  - Creating basic Row Level Security
  - Dynamic RLS
  - Limitations of RLS
  - S
  
- **Data Refresh**
  - Manually refreshing data.
  - When and Why to use a Gateway.
  - Creating, Scheduling and Managing Automatic Refreshing.
  - Refreshing restrictions.