

# Power BI EXPERT

COURSE – 2024

# Vedas Rapshtech

*Success Matters*



## Power BI

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# Course Curriculum

## Month 1: Foundations of Power BI

### Week 1: Introduction to Power BI

- Overview of Power BI and its components (Power BI Desktop, Service, Mobile)
- Installing Power BI Desktop
- Understanding Power BI licensing and pricing models
- Exploring the Power BI interface

### Week 2: Data Sources and Connectivity

- Connecting to common data sources (Excel, CSV, SQL Server, etc.)
- Overview of Power Query
- Importing data and exploring the Query Editor
- Basic data transformation techniques



### Week 3: Data Preparation and Cleaning

- Data transformation in Power Query (removing duplicates, filtering, renaming columns)
- Merging and appending queries
- Introduction to data types and column transformations
- Understanding the importance of clean and consistent data

### Week 4: Basic Visualizations and Reports

- Creating basic visualizations (tables, bar charts, line charts)
- Using filters, slicers, and drilldowns for interactive reports
- Formatting visuals for presentation
- Creating your first Power BI report

## Month 2: Intermediate Power BI Skills

### Week 5: Data Modelling

- Understanding data models (tables, relationships, hierarchies)
- Creating relationships between tables
- Star schema and snowflake schema concepts
- Data modelling best practices

### Week 6: Introduction to DAX (Data Analysis Expressions)

- Overview of DAX and its role in Power BI
- Basic DAX functions: SUM, COUNT, AVERAGE, etc.
- Creating calculated columns and measures
- Understanding DAX for time intelligence (YTD, QTD, MTD)



### Week 7: Advanced Visualizations

- Custom visualizations and how to add them
- Using maps, matrix, and gauge visualizations
- Creating drill-through reports and interactions between visuals
- Best practices for creating user-friendly dashboards

### Week 8: Power BI Service and Sharing

- Publishing reports to Power BI Service
- Sharing reports and dashboards with others
- Introduction to workspaces, apps, and datasets in Power BI Service
- Scheduling data refresh and understanding data refresh strategies



## Month 3: Advanced Power BI and Projects

### Week 9: Advanced DAX and Calculations

- Using more advanced DAX functions (CALCULATE, FILTER, ALL, etc.)
- Time intelligence in detail (parallel periods, moving averages)
- Creating complex measures for analytics
- Handling complex data models with DAX



### Week 10: Power BI Gateways and Administration

- Overview of on-premises data gateways
- Installing and configuring Power BI gateways
- Admin roles and managing permissions in Power BI
- Monitoring report usage and performance

### Week 12: Project

- Final project: Building an end-to-end Power BI solution
- Connecting to multiple data sources, data transformation, creating reports and dashboards
- Publishing reports, setting up sharing, and scheduling refresh
- Presenting and documenting the final project