



Microsoft Power BI Syllabus

Introduction

- Introduction to Power BI
- Power BI Architecture
- Component of Power BI
- Relationship Between Excel and Power Bi
- Power BI workspaces
- Power BI Editor

Power Bi data source and Data sets

- Power BI Data Sources
- Connecting to different database like SQL server My sql etc.
- Power BI File Sources
- Fetching data from different files
- Working with import and direct query
- Editing data sources
- Editing data queries and Data sets
- Applying changes to datasets
- Cleaning data sets in Power BI
- Reverting changes to data sets
- Defining relationship between tables
- Creating custom table
- Connecting to different web sources

Power BI Editor Features

- Merge and append Queries
- Merging data from different sources
- Remove column and split column



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- Choosing required column in data
- Working with Different transformation
- Applied steps in query editor
- Working with hierarchies
- Working with pivot and Unpivot
- Creating Index and custom columns
- Grouped by functionality in query editor

Power BI Visualization

- Working with different visualization
- Working with tables and Matrix visuals
- Working with different levels of Filters
- Data Visualization with Power BI
- Guage and cards

Chart Report and Properties

- Chart report type and properties
- Stacked bar and column chart
- Clustured bar clustered chart
- 100% stacked bar chart 100% column chart
- Line, area, stacked and charts
- Line and Stacked row charts
- Line and Stacked column charts
- Waterfall chart, scatter chart, pie chart
- Filed properties: Axis, Legend, Value ,Tooltip
- Filed properties: Color, Saturation , Filter Type
- Formats: Legends ,Axis , Data labels, Plot Area
- Data labels: Visibility, Colors & Display Unit
- Data Labels: Precision, Position, Text Option
- Analytics: Constant line position labels
- Working with waterfall charts and default values
- Modifying Legends and visual filters-options



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Power Bi Advanced Features

- Working with data hierarchies
- Inbuilt Slicer and custom slicer
- Working with reference lines
- Developing KPIs
- Parameters
- Types of parameters
- Linking Parameter with datasets
- Power Bi template
- Difference between Reports and Templates
- Importing custom visualization

DAX Function with Power BI

- Working With DAX functions
- Calculated measures using DAX
- Parameter with DAX
- Dynamic report Filters Expressions
- Variables
- Date function
- String Function
- Arithmetic Function

Calculated Column/ Measures

- Understanding calculated Columns
- Creating calculated columns
- Understanding Measures
- Creating Measures
- Difference between Columns & Measures



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DAX Expression & DAX Functions

- YTD, QTD, MTD Calculations with DAX
- DAX Calculations and Measures
- Using TOPN , RANKX, RANKEQ,
- SAMPLE Function, COUNTALL ,
- TIMEFORMAT, ISERROR, ITEXT, DATEFORMAT,
- Time intelligence Function with DAX
- Data Analysis Expression and Function
- Datesytd, Datesqtd, Datesmtd
- Endofyear, Endofquarter, Endofmonth
- Firstdate, Lastdate, Datesbetween
- Closingbalanceyear ,Closingbalanceqtr
- Sameperiod and Previous month, Quarter Filter Function

Power BI Deployment

- Power BI Server Configuration
- Creating Workspace
- Deploying Power BI Desktop Reports
- Managing reports in Power BI Services
- Editing Reports in Power BI Servers
- Share Dashboards to client
- Security Features in Power BI