



POWER BI



Basics of BI

- What is Business Intelligence?
- What is Data?
- Types of Data
 - a. Structured
 - b. Semi-Structured
 - c. Unstructured
- What is Datawarehouse?

Introduction to Power BI

- Power BI Overview
- Different Power BI Offerings
- Components of Power BI
- Building Blocks of Power BI
- Installing Power BI

Connecting to Data Source

- Types of Connections
- Connect to data from File
- Connect to data from different Data sources
- Change Data Source Settings
- Direct Query and Import and Live connection

Introduction to Power Query

- Power Query Editor user interface
- How to clean unformatted data
- Combine Data - Merge and Appending
- Advanced Editor to modify M query
- Use Parameters
- Create calculated tables and measures
- Rectify Null Values and Data Quality Issues
- Evaluate and Transform Column Data Types
- Eliminate unnecessary rows and columns
- Use Query Diagnostics

Introduction to Data Model

- Data Modelling in Power BI
- Manage Data Relationships
- Cardinality Levels
- Cross filter direction
- Optimizing Data Models

Introduction to Visualizations

- Create Visualisations
 - a) Tables, Matrix, Line, Bar, Column
 - b) Area, Pie, Donut, Waterfall, Funnel
 - c) KPI Visuals, Marks card, Maps
- Formatting and configuring the visuals.
- Apply Filter and Slicers
- Create Bookmarks to create interactive dashboards
- Drill up and drill down your visualizations
- Drill through reports for detail information
- Create Advanced visualizations
- Use the Key Influencers to Explore Dimensional Variances
- Use the Decomposition Tree Visual to Break Down a Measure
- Apply AI Insights
- Conduct Time Series Analysis
- Use the Q & A Feature for NLP driven reports
- Configure mobile view for dashboards
- Create/Manage Row level security in PBI desktop

Introduction to Dax Functions

- What is DAX Syntax
- Why is DAX Important
- Create Calculated Column using DAX
- Create Calculated Measure using DAX
- Scope of usage with DAX. Usability options
- DAX Functions and Types
 - a. Table Value Functions
 - a. Filter Functions
 - b. Aggregation Functions
 - c. Time Intelligence Functions
 - d. Information Functions
 - e. Parent-Child Functions
 - f. Statistical, Text and Logical Functions

Introduction to POWER BI Service

- License Types: Free, PRO and Premium
- Create a Power BI service account
- Create DEV and PROD workspace environment
- Create Datasets manually or through connections
- Create Gateway connections
- Manage access to Users, Types of Access
- Manage Row Level Security in Power BI Service
- How to Subscribe for reports
- How to manual refresh or schedule a refresh
- How to create APPS, manage APPS