



IT EDUCATION  
CENTRE

# Power BI



# Introduction to Power BI

- Introduction to Data warehouse
- Data warehouse Tools
- What is Power BI?
- Power BI – Flow of Activity
- Building Blocks of Power BI
- Power BI Primary Tools: Power Pivot, Power Query Power View, Power Map, Power Q&A, Power BI Desktop

## Power BI Desktop

- Power BI Desktop – Install
- Data Sources and Connections
- Connect to Data in Power BI Desktop
- How to use Query Editor in Power BI
- Advanced Data Changes and Transformation
- Views in Power BI Desktop
- Modeling Data – Manage Data Relationship
- Create Calculated Columns, Optimize Data Models

# Data Analysis Expressions (DAX)

- ▶ What is DAX?
- ▶ Data Types in DAX
- ▶ Calculation Types
- ▶ DAX Functions: Date and Time, Time Intelligence, Information, Logical, Mathematical, Statistical, Text
- ▶ Aggregate Measures in DAX
- ▶ Table Relationships and DAX

## Data visualization

- ▶ What is Data Visualization
- ▶ Practices for Data Visualization
- ▶ How to use Visual in Power BI
- ▶ Reports in Power BI
- ▶ Charts in Power BI (Scatter, Waterfall, Funnel)
- ▶ Slicers
- ▶ Map Visualizations
- ▶ Gauges and Single Number Cards

# Custom visualizations

- ▶ What Are Custom Visuals?
- ▶ Office Store
- ▶ Downloading Custom Visuals
- ▶ Importing Custom Visuals in Power BI Report
- ▶ KPI Visuals
- ▶ Data Binding in Power BI

## Power BI Integration page And Administration

- ▶ Data Gateways
- ▶ Content packs
- ▶ Power BI Report Server

## Power BI Embedded

- ▶ Power BI Embedded Conceptual Model
- ▶ Workspace Collection
- ▶ Adding Power BI content to a Workspace
- ▶ Application Authentication Tokens
- ▶ Parts of Power BI embedded – REST API
- ▶ Power BI Embedding without an Embed Token
- ▶ Power BI Embedding with an Embed Token

# Power BI Q&A

- Power BI Q&A
- Dashboard
- Dashboard vs Reports
- Creating a Dashboard
- Dashboard Tiles
- Pinning Tiles
- Quick Insights with Power BI
- Power BI Publisher for Excel

# GitHub

- Creating a Git Account
- Cloning the repository
- Adding the file
- Committing the file
- Git push
- Removing the file