



Power BI



POWER BI COMPLETE COURSE

Data ware house basics

- ⇒ Data warehouse introduction
- ⇒ DWH definitions
- ⇒ DWH Architecture
- ⇒ Schemas
- ⇒ Types facts
- ⇒ Types DIM
- ⇒ OLTP VS OLAP

Power BI Introduction

- ⇒ Data Visualization,
- ⇒ Reporting
- ⇒ Business Intelligence (BI)
- ⇒ Flow of Work in Power BI Desktop
- ⇒ Flow of Work in Report server Power BI Desktop
- ⇒ Power BI Report Server, Power BI Service
- ⇒ Power BI Mobile
- ⇒ Flow of Work in Power BI / Power BI Architecture
- ⇒ A Brief History of Power BI

PBI Desktop Installation, PBI Desktop & Service Overview

- ⇒ Power BI Desktop Installation
- ⇒ Datasets, Visualizations,
- ⇒ Reports,
- ⇒ Dashboards
- ⇒ Power BI Desktop User Interface
- ⇒ Fields Pane,
- ⇒ Visualizations pane,
- ⇒ Ribbon,
- ⇒ Views,
- ⇒ Pages Tab
- ⇒ Overview of Power Query /
Query Editor - Extract, Transform & Load Data
- ⇒ Connecting to Data Sources,
Establish connection to the Excel source,
- ⇒ notepad,
- ⇒ SQL
- ⇒ Importing Data into Power BI or Query Editor
- ⇒ Transforming the Data using Power Query
- ⇒ Creating New Measures and New Columns and tables using DAX – Data View
- ⇒ Saving and Publishing the Visuals or Reports
- ⇒ Logon to Power BI Service
- ⇒ View the Reports in PBI Service and Share the reports



Power Query: Introduction to Power Query Extract, Transform & Load

- Data Transformation,
- Benefits of Data Transformation
- Shape or Transform Data using Power Query
- Overview of Power Query / Query Editor,
- Query Editor User Interface
- The Ribbon (Home, Transform, Add Column, View Tabs)
- The Queries Pane, The Data View / Results Pane,

Datatypes and Filters in Power Query

- Datatypes,
- Changing the Datatype of a Column
- Filters in Power Query
- Filter a Column using Text Filters
- Filter a Column using Number Filters
- Filter a Column using Date Filters
- Filter Multiple Columns

Inbuilt Column Transformations

- Remove Columns / Remove Other Columns
- Name / Rename a Column
- Reorder Columns or Sort Columns
- Add Column / Custom Column
- Split Columns
- Merge Column
- PIVOT,
- UNPIVOT Columns
- Transpose Columns
- Header Row or Use First Row as Headers
- Keep Top Rows, Keep Bottom Rows
- Keep Range of Rows
- Keep Duplicates, Keep Errors
- Remove Top Rows, Remove Bottom Rows,
- Remove Alternative Rows
- Remove Duplicates, Remove Blank Rows,
- Remove Errors
- Group By



Combine Queries (Append Queries & Merge Queries)

- ⇒ Append Queries / Merge Queries
- ⇒ Query Options
- ⇒ Copy Query, Paste Query
- ⇒ Delete Query, Rename Query
- ⇒ Enable Load, Include in report Refresh
- ⇒ Duplicate Query, Reference Query
- ⇒ Move to Group, Move Up, Move Down

Power Pivot

- ⇒ Power BI Data Modelling – Relationship View
- ⇒ Data Modelling Introduction
- ⇒ Relationship,
- ⇒ Need of Relationship
- ⇒ Relationship Types / Cardinality in General
- ⇒ One-to-One, One-to-Many (or Many-to-One),
- ⇒ Many-to-Many
- ⇒ AutoDetect the relationship,
- ⇒ create a new relationship,
- ⇒ Edit existing relationships
- ⇒ Make Relationship Active or Inactive
- ⇒ Delete a relationship

Enhancing the Data Model – DAX

- ⇒ What is DAX,
- ⇒ Measures,
- ⇒ DAX Table and Column Name Syntax,
- ⇒ Creating Calculated Columns,
- ⇒ Creating Measures,
- ⇒ Calculated Columns Vs Measures,
- ⇒ DAX Syntax & Operators
- ⇒ DAX Operators
- ⇒ Types of Operators
- ⇒ Arithmetic Operators,
- ⇒ Comparison Operators,
- ⇒ Text Concatenation Operator,
- ⇒ Logical Operators



DAX Functions Categories

- ⇒ Logical Functions
- ⇒ Text Functions
- ⇒ Math & Statistical Functions
- ⇒ Filter Functions
- ⇒ Time Intelligence Functions
- ⇒ DAX Date & Time Functions
- ⇒ Information Functions

Date and Time Functions

- ⇒ Year,
- ⇒ Month,
- ⇒ Day
- ⇒ Weekday,
- ⇒ Weeknum
- ⇒ Format (text Function) Month Name,
- ⇒ Date,
- ⇒ Today,
- ⇒ Now
- ⇒ Hour,
- ⇒ Minute,
- ⇒ Second,
- ⇒ Time
- ⇒ Datediff,
- ⇒ Calendar
- ⇒ Datevalue,
- ⇒ Timevalue
- ⇒ Utcnow,
- ⇒ Utctoday

Date and Time Functions

- ⇒ LEN,
- ⇒ CONCATENATE,
- ⇒ LEFT,
- ⇒ RIGHT,
- ⇒ MID
- ⇒ UPPER,
- ⇒ LOWER
- ⇒ TRIM,
- ⇒ SUBSTITUTE,
- ⇒ BLANK
- ⇒ CODE,
- ⇒ EXACT
- ⇒ FIND,
- ⇒ FIXED
- ⇒ TRIM,
- ⇒ UNICHAR
- ⇒ SEARCH,
- ⇒ VALUE,
- ⇒ FORMAT

DAX Logical Functions

- ⇒ IF,
- ⇒ TRUE,
- ⇒ FALSE
- ⇒ IFERROR,
- ⇒ IN
- ⇒ SWITCH,
- ⇒ AND,
- ⇒ NOT



DAX Math and Statistical Functions

- ⇒ CURRENCY,
- ⇒ RAND
- ⇒ INT,
- ⇒ ABS
- ⇒ ROUND,
- ⇒ ROUNDUP,
- ⇒ ROUNDDOWN,
- ⇒ RAND BETWEEN,
- ⇒ DIVIDE
- ⇒ EVEN,
- ⇒ ODD
- ⇒ SQRT,
- ⇒ FACT
- ⇒ SUM,
- ⇒ SUMX
- ⇒ MIN,
- ⇒ MINX
- ⇒ COUNT,
- ⇒ COUNTX
- ⇒ AVERAGE,
- ⇒ AVERAGEX
- ⇒ COUNTROWS,
- ⇒ COUNTBLANK
- ⇒ CROSSJOIN,
- ⇒ DISTINCTCOUNT
- ⇒ MEDIAN,
- ⇒ RANKX,
- ⇒ TOPN

DAX Filter Functions

- ⇒ CALCULATE,
- ⇒ ALLXECPT
- ⇒ ALL,
- ⇒ DISTINCTCOUNT
- ⇒ FILTER,
- ⇒ HASONEFILTER
- ⇒ HASONEVALUE,
- ⇒ SELECTEDVALUE

DAX Time Intelligence Functions

- ⇒ Time Intelligence Introduction
- ⇒ Closingbalancemonth,
- ⇒ Dateadd
- ⇒ Datesbetween,
- ⇒ Datesinperiod
- ⇒ Datesmtd,
- ⇒ Datesytd,
- ⇒ Totalmtd,
- ⇒ Totalytd
- ⇒ Endofmonth,
- ⇒ Firstdate
- ⇒ Lastdate,
- ⇒ Startofmonth,
- ⇒ Sameperiodlastyear

Information Functions

- ⇒ CONTAINS,
- ⇒ ISBLANK
- ⇒ ISERROR,
- ⇒ ISEVEN
- ⇒ ISNONTEXT,
- ⇒ ISTEXT
- ⇒ ISODD,
- ⇒ ISNUMBER
- ⇒ USERNAME

Conditional Formatting

- ⇒ Text conditional formatting
- ⇒ Border conditional formatting
- ⇒ Background conditional formatting
- ⇒ Font conditional formatting
- ⇒ Data bars conditional formatting
- ⇒ Conditional formatting icons



Other Options

- ⇒ Buttons,
- ⇒ shapes
- ⇒ Images,
- ⇒ New parameter
- ⇒ What if parameter,
- ⇒ Gridlines
- ⇒ Lock objects,
- ⇒ Bookmarks,
- ⇒ Selection,
- ⇒ Performance analyzer,
- ⇒ Sync slicers,
- ⇒ edit interactions
- ⇒ Enter data,
- ⇒ recent sources,
- ⇒ refresh
- ⇒ Data grouping,
- ⇒ visual analyzing

Visualizations

- ⇒ Stacked bar chart,
- ⇒ Stacked column chart
- ⇒ Clustered bar chart,
- ⇒ Clustered column chart
- ⇒ 100% stacked bar chart,
- ⇒ 100% stacked column chart
- ⇒ Line chart, Area chart
- ⇒ Stacked area chart,
- ⇒ Line and stacked column chart
- ⇒ Line and clustered column chart,
- ⇒ Ribbon chart
- ⇒ Waterfall chart,
- ⇒ Scatter chart
- ⇒ Pie chart,
- ⇒ Donut chart
- ⇒ Treemap,
- ⇒ Filled map
- ⇒ Map, Funnel

Introduction to office 365

- ⇒ What is office 365
- ⇒ Download custom visuals

Custom Visuals

- ⇒ Bar chart,
- ⇒ Chartaccentbarchart
- ⇒ Hierarchy slicer,
- ⇒ Linedotchart
- ⇒ Multi slicer,
- ⇒ Pivotslicer table heatmap
- ⇒ Tornado chart

Filters in Power View Filter Types

- ⇒ Visual Level Filters,
- ⇒ Page Level Filters,
- ⇒ Report Level Filters,
- ⇒ Drill Through Filters
- ⇒ Filter Sub Types
- ⇒ Basic Filtering,
- ⇒ Advanced Filtering,
- ⇒ Top N,
- ⇒ Relative Date Filtering
- ⇒ Numeric field filters,
- ⇒ Text field filters,
- ⇒ Date and Time field Filters



Hierarchies and Drill-Down Reports

- ⇒ Hierarchy Introduction,
- ⇒ Default Date Hierarchy,
- ⇒ Creating Hierarchy,
- ⇒ Creating Custom Date Hierarchy
- ⇒ Change Hierarchy Levels
- ⇒ Drill-Up and Drill-Down Reports,
- ⇒ Drill Down,
- ⇒ Drill Up,
- ⇒ Show Next Level,
- ⇒ Expand Next Level
- ⇒ Drilling filters other visuals option

Visualizing KPI Data

- ⇒ Create and Format Gauge Visual,
- ⇒ KPI Visual
- ⇒ Create and Format Card Visualization,
- ⇒ Multi Row Card
- ⇒ Create and Format Table Visual,
- ⇒ Matrix Visualization
- ⇒ Create and Format Map Visual,
- ⇒ Filled Map Visual

Power BI Service

- ⇒ Power BI Service Introduction
- ⇒ Power BI Service Introduction,
- ⇒ Power BI Cloud Architecture
- ⇒ Creating Power BI Service Account,
- ⇒ SIGN IN to Power BI Service Account
- ⇒ Publishing Reports to the Power BI service,
- ⇒ Import / Getting the Report to PBI Service
- ⇒ My Workspace / App Workspaces Tabs
- ⇒ DATASETS,
- ⇒ WORKBOOKS,
- ⇒ REPORTS,

- ⇒ DASHBOARDS
- ⇒ Working with Datasets,
- ⇒ Creating Reports in Cloud using Published Datasets
- ⇒ Power BI Datasets Live Connection using Desktop
- ⇒ Working with Workbooks,
- ⇒ working with Reports,
- ⇒ Sharing Reports
- ⇒ Creating new reports in services
- ⇒ Embedding to web,
- ⇒ share report link
- ⇒ Row Level Security in Power BI
- ⇒ Introduction to Row Level Security

Dashboards Development

- ⇒ Creating Dashboards Pin Visuals and Pin LIVE Report Pages to Dashboard
- ⇒ Advantages of Dashboards
- ⇒ Interacting with Dashboards
- ⇒ Formatting Dashboard
- ⇒ Sharing Dashboard

Data Gateways

- ⇒ Introduction to Data Gateways
- ⇒ How Data Gateways work
- ⇒ Connect to an on-premise Data Source by using a Data Gateway
- ⇒ Download Data Gateway
- ⇒ Installing a Data Gateway
- ⇒ Types of Gateways
- ⇒ On-premises Data Gateway, . On-premises Data Gateway (personal mode)
- ⇒ Manage Data Gateway
- ⇒ Refresh on Premise Data



SQL Basics

- ⇒ SQL Introduction
- ⇒ Installation
- ⇒ DDL Commands
- ⇒ DML Commands
- ⇒ DRL Commands
- ⇒ Types Joins
- ⇒ Inner Join
- ⇒ Left Outer Join
- ⇒ Right Outer Join
- ⇒ Full Outer Join
- ⇒ Select ,Case ,Switch,IF statement

ADD ON

- ⇒ Power BI Admin Topics
- ⇒ Real-time Projects Explanation
- ⇒ Resume Preparation
- ⇒ Interview Questions Discussions
- ⇒ Mock Interviews

Azure Basics

- ⇒ Azure basics
- ⇒ Azure Subscription
- ⇒ Azure SQL,
- ⇒ Blob Storage
- ⇒ ADF basics





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