



POWER BI COURSE SYLLABUS



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Power BI Course Syllabus

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Power BI Introduction

- ❖ Data Visualization, Reporting
- ❖ Business Intelligence (BI), Traditional BI, Self-Serviced BI
- ❖ Cloud Based BI, On Premise BI
- ❖ Power BI Products
- ❖ Power BI Desktop (Power Query, Power Pivot, Power View)
- ❖ Flow of Work in 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

Power Query

- ❖ 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, The Query Settings Pane, Formula Bar
- ❖ Saving the Work
- ❖ Datatypes, Changing the Datatype of a Column Filter
- ❖ in Power Query
- ❖ Auto Filter / Basic Filtering
- ❖ Filter a Column using Text Filters
- ❖ Filter a Column using Number Filters
- ❖ Filter a Column using Date Filters
- ❖ Filter Multiple Columns
- ❖ Remove Columns / Remove Other Columns
- ❖ Name / Rename a Column
- ❖ Reorder Columns or Sort Columns
- ❖ Add Column / Custom Column Split
- ❖ Columns
- ❖ Merge Columns
- ❖ 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 Rows / Group By

M Language

- ❖ IF..ELSE Conditions, Transform Column () Types
- ❖ Remove Columns (), Split Columns (), Replace Value()
- ❖ Table. Distinct Options and GROUP BY Options Table.
- ❖ Group (), Table. Sort () with Type Conversions PIVOT
- ❖ Operation and Table. Pivot(). List Functions Using
- ❖ Parameters with M Language

Data Modeling

- ❖ Data Modeling 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

DAX

- ❖ What is DAX, Calculated Column, 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 Types

- ❖ Date and Time Functions
- ❖ Text Functions
- ❖ Logical Functions
- ❖ Math & Statistical Functions
- ❖ Filter Functions

Time Intelligence Functions

Date and Time Functions

- ❖ YEAR, MONTH, DAY
- ❖ WEEKDAY, WEEKNUM
- ❖ FORMAT (Text Function) à Month Name, Weekday Name
- ❖ DATE, TODAY, NOW
- ❖ HOUR, MINUTE, SECOND, TIME
- ❖ DATEDIFF, CALENDAR
- ❖ Creating Date Dimension Table

Text Functions

- ❖ LEN, CONCATENATE (&)
- ❖ LEFT, RIGHT, MID UPPER,
- ❖ LOWER
- ❖ TRIM, SUBSTITUTE, BLANK

Logical Functions

- ❖ IF
- ❖ TRUE, FALSE NOT,
- ❖ OR, IN, AND
- ❖ IFERROR SWITCH

Math & Statistical Functions

- ❖ INT
- ❖ ROUND, ROUNDUP, ROUNDDOWN
- ❖ DIVIDE
- ❖ EVEN, ODD
- ❖ POWER, SIGN
- ❖ SQRT, FACT
- ❖ SUM, SUMX
- ❖ MIN, MINX
- ❖ MAX, MAXX
- ❖ COUNT, COUNTX
- ❖ AVERAGE, AVERAGEX
- ❖ COUNTROWS, COUNTBLANK

Filter Functions

- ❖ CALCULATE
- ❖ ALL
- ❖ RELATED
- ❖ Report View

Report View User Interface

- ❖ Fields Pane, Visualizations pane, Ribbon, Views, Pages Tab, Canvas Visual
- ❖ Interactions
- ❖ Interaction Type (Filter, Highlight, None)
- ❖ Visual Interactions Default Behavior, Changing the Interaction

Grouping and Binning Introduction

- ❖ Using grouping, Creating Groups on Text Columns
- ❖ Using binning, Creating Bins on Number Column and Date Columns
- ❖ Sorting Data in Visuals
- ❖ Changing the Sort Column, Changing the Sort Order
- ❖ Sort using column that is not used in the Visualization
- ❖ Sort using the Sort by Column button
- ❖ Hierarchy Introduction, Default Date Hierarchy
- ❖ Creating Hierarchy, Creating Custom Date Hierarchy
- ❖ Change Hierarchy Levels
- ❖ Drill-Up and Drill-Down Reports
- ❖ Data Actions, Drill Down, Drill Up, Show Next Level

Visualizations

- ❖ Visualizing Data, Why Visualizations
- ❖ Visualization types, Create and Format Bar and Column Charts
- ❖ Create and Format Stacked Bar Chart Stacked Column Chart Create
- ❖ and Format Clustered Bar Chart, Clustered Column Chart
- ❖ Create and Format 100% Stacked Bar Chart, 100% Stacked Column Chart Create and
- ❖ Format Pie and Donut Charts
- ❖ Create and Format Scatter Charts
- ❖ Create and Format Table Visual, Matrix Visualization
- ❖ Line and Area Charts
- ❖ Create and Format Line Chart, Area Chart, Stacked Area Chart
- ❖ Combo Charts
- ❖ Create and Format Line and Stacked Column Chart, Line and Clustered Column Chart
- ❖ Create and Format Ribbon Chart, Waterfall Chart, Funnel Chart

Power BI Service

- ❖ 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

Creating Dashboards

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

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