

Top-Grade Curricular to get Top-Notch Skills



POWER BI COURSE SYLLABUS



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Power BI Course Syllabus

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We do not buy you a job by bribing companies to secure a place in IT, instead we equip you with the skills needed to get employed in IT and will support you with unlimited number of relevant interview opportunities so that your career in IT becomes assured. Our support will be there until you get placed in an IT Company as that's our mission too.

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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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