

# Power BI Syllabus

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## Hi Folks,

Oranium Tech introducing some amazing content on Power BI. Looking for a professional platform to learn the Power BI Course in Chennai? Join Oranium Tech! Power BI Training in Chennai at Oranium Tech delivers the students with a comprehensive learning experience of the Struts Framework, Architecture, and its Lifecycle in real-time practices under the mentorship of Expert Professionals. By the end of the Power BI training program at Oranium Tech, you will become well-versed with its Environment, Setup, Configurations, Database Actions, Interceptors, Types Conversion, Tags, Themes, Templates, Exceptional Handling, and Validations.

## 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, FormulaBar
- 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 Function

### **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 ColumnChart
- 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 ServiceMy
- 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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**CHROMPET** : 73053 43555 [whatsapp](#) / oraniumtech@gmail.com  
**VELACHERY** : 73052 77748 [whatsapp](#) / oraniumtechvh@gmail.com