

Power BI

DURATION - 3 MONTHS

1. Introduction To Power BI

- ✎ Download And Installing Power BI Desktop
- ✎ Getting To Know The Interface
- ✎ Power BI Free Vs. Pro Vs. Premium
- ✎ Power BI Key Components
- ✎ Taking A Closer Look At The Query Editor Interface

2. Power Query - Import Data

- ✎ EXCEL, CSV, WEB, PDF
- ✎ MS ACCESS, SQL DEVELOPER, MY SQL
- ✎ XML, JSON, VARIOUS FORMATS
- ✎ CONNECTING TO A FOLDER

3. Power Query - Data Transformation

- ✎ Basic Transformations
- ✎ Add Column, Custom Column
- ✎ Index Column, Conditional Column
- ✎ Pivoting And Un Pivoting Columns
- ✎ Duplicating Vs Referencing - Queries

4. Power Query - Data Transformation

- ✎ Merge Query
- ✎ Append Query
- ✎ Join Kind
- ✎ Fact Dimension Model

5. Power Query - Data Transformation

- ✎ Advance Editor
- ✎ ETL Operations With Power Query
- ✎ Group By And Advanced Options
- ✎ Aggregation With Power Query

6. Power Query - M Language

- ✎ M Language Semantics & Syntax
- ✎ Table Functions
- ✎ Record Functions
- ✎ Text Functions

7. Power Query - M Language

- ✎ List Functions
- ✎ Date & Time Functions
- ✎ Advance Edits And
- ✎ Parameters

8. Data Modeling In Power Bi

- ✎ What Is Data Modeling
- ✎ Creating Model Relationship
- ✎ Data Table Vs Lookup Table
- ✎ Relationship Cardinality

9. Data Modeling In Power Bi

- ✎ Primary Key Vs Foreign Key
- ✎ One To One Relationship
- ✎ One To Many Relationship
- ✎ Many To Many Relationship
- ✎ Bad Cardinality
- ✎ Filter Direction
- ✎ Editing Relationships
- ✎ Data Model Best Practice
- ✎

10. Dax (Data Analysis Expression)

- » **What Is Dax**
- » **Calculated Columns**
- » **Calculated Measures**
- » **Row Context & Filter Context**

11. Dax (Data Analysis Expression)

- » **Dax Functions**
- » **Calender & Calenderauto Function**
- » **Sumx, Countx, Maxx & Averagex**
- » **Date Table Script, Countrows**

12. Dax (Data Analysis Expression)

- » **Filter Function**
- » **All, Allexcept, Allselected, Allcrossfiltered**
- » **Calculate, Calculatetable, Earlier, Keepfilter**

13. Dax (Data Analysis Expression)

- » **Time Intelligence Function**
- » **Dateadd, Datesbetween, Datesytd, Datesmtd, Datesqtd**
- » **Totalmtd, Totalytd, Totalqtd, Rankx, Topn**
- » **Sameperiodlastyear, Related, Closingbalanceyear**
- » **Logical Functions - If, Elself, Text Functions**

Advanced Dax

14. Scalar Functions

- » **Rounding Functions**
- » **Information Functions**
- » **Conversion Functions**
- » **Logical Functions**

15. Advanced Calculate

- » **Expended Tables**
- » **Context Transition**
- » **Calculate Modifiers**
- » **Removefilters, Keepfilters**

16. Table And Filter Functions

- » **Distinct, Values, Selected Values**
- » **Select Columns, Add Columns,**
- » **Summarize, Data Table, Generateseries**

17. Calculated Table Joins

- » **Cross Join, Union,**
- » **Except, Intersect**

18. Relationship Functions

- » **Ralated, Related Table**
- » **User Relationship, Treatas**

19. Iterator Functions

- » **Concatenatex, Rankx**

20. Iadvanced Time Intelligence

- » **Week Based Calculations**
- » **Fiscal Period To Date**

21. Data Visualization

- Understanding The Interface
- Creating Our First Visualizations
- Editing Interactions, Adding Tooltips
- Understanding Hierarchies
- Adding Drill-Down
- Formatting Charts And Sorting
- Essential Formatting Setting

22. Data Visualization

- Table View Vs. Matrix View
- Line, Bar, Column, Tree Map
- Pie, Doughnut
- Tooltips – On Hover Text
- Slicers
- Adding Tree Maps And Tables
- Applying Different Filter Types
- Creating Multi-Row Cards
- Visualizations And Waterfalls

23. Advanced Visualization

- Kpi & Gauge Chart
- Forecast, Trend-Line, Map Visuals
- Custom Visuals
- Show/Expand Next Level
- Filter Level, Report Level, Page Level

24. Power Bi Service

- Power Bi Service Architecture
- Power Bi Cloud Components
- Report Publish & Report Uploads
- Dashboard Creation And Uses
- Adding Tiles To Dashboard
- Pinning Visuals And Report Pages

25. Power Bi Service

- Understanding Gateways
- Gateway Types
- Data Refresh
- Streaming Data Set
- Power Bi Mobile
- Manage Alerts
- Generate Quick Insights
- Row Level Security

26. Power Bi Report Server & Powerapp

- Install, Configure Report Server
- Report Builder For Report Server
- Designing Paginated Report
- Basic Powerapp Concept
- Canvas Apps | Customization

27. Realtime Project

- Project Requirement Analysis
- Implementing Sdlc Phases
- Requirement Gathering
- Pbx Report Design

28. Data Visualization

- Understanding The Interface Of The Report View
- Creating Our First Visualizations
- Editing Interactions And Adding Tooltips
- Understanding Hierarchies And Adding Drill-Down
- Formatting Charts And Sorting
- Essential Formatting Setting

29. Data Visualization

- ✧ **Table View Vs. Matrix View**
- ✧ **Basic Charts: Line, Bar , Column ,Tree Map, Pie, Doughnut**
- ✧ **Tooltips – On Hover Text**
- ✧ **Slicers: Vertical List Vs. Horizontal Tiles**
- ✧ **Adding Tree Maps And Tables**
- ✧ **Applying Different Filter Types**
- ✧ **Creating Multi-Row Cards**
- ✧ **Understanding Combined Visualizations And Waterfalls**

30. Advanced Visualization

- ✧ **Kpi & Gauge Chart**
- ✧ **Forecast, Trend-Line**
- ✧ **Map Visuals**
- ✧ **Custom Visuals – Downloadable Charts**
- ✧ **Show/Expand Next Level**
- ✧ **Filter Level: Report Level Vs Page Level Vs Visual Level**

31. Power Bi Service

- ✧ **Power Bi Service Architecture**
- ✧ **Power Bi Cloud Components**
- ✧ **Report Publish & Report Uploads**
- ✧ **Dashboard Creation And Uses**
- ✧ **Adding Tiles To Dashboard**
- ✧ **Pinning Visuals And Report Pages**

32. Power Bi Service

- ✧ **Understanding Gateways**
- ✧ **Gateway Types**
- ✧ **Data Refresh**
- ✧ **Streaming Data Set**
- ✧ **Power Bi Mobile**
- ✧ **Manage Alerts**
- ✧ **Generate Quick Insights**
- ✧ **Row Level Security**

33. Power Bi Service

- ✧ **Install, Configure Report Server**
- ✧ **Report Builder For Report Server**
- ✧ **Designing Paginated Report**
- ✧ **Basic Powerapp Concept**
- ✧ **Canvas Apps | Customization | Contents**

34. Realtime Project

- ✧ **Project Requirement Analysis**
- ✧ **Implementing Sdlc Phases**
- ✧ **Requirement Gathering**
- ✧ **Pbix Report Design**