

POWER BI COURSE OUTLINE

1. Installation and Introduction to Power BI

- Power BI Installation
- Power BI Desktop layout
- Canvas settings

2. Power BI data sources and themes

- Viable data sources
- Appearance customization
- Excel-to-Power BI-to Power Query chain

3. File directory and power query data preview

- Data source settings
- Data transformation
- Whitespace
- Monospaced
- Column profile
- Column distribution

4. Data transformation PT 1

- Data type
- Table creation
- Using Locale
- Data filtering
- Auto recovery

5. Data transformation PT 2

- Text cleaning
- Data trimming
- Split column
- Auto text transformation

6. Data transformation PT 3

- Data extracts
- Editing an existing table in Power Query

7. Vitality of Relationships

- Model view walk-through
- Create and edit relationships
- Cardinality and cross-filter directions
- Effectiveness of a healthy relationship

8. Complex Data Models

- Bridge tables
- Primary and foreign keys
- One-to-one cardinality illustration

- Many-to-many cardinality illustration

9. Complex Data Models 2

- Star Schema (Dimension and fact tables)
- Managing complex relationships
- Filters pane

10. Power BI Visualizations PT 1

- Advanced filtering
- Data-type troubleshooting
- Bar charts

11. Power BI Visualizations PT 2

- Visuals formatting
- Column charts
- Advanced sorting

12. Power BI Visualizations PT 3

- Stacked bar charts
- Stacked column charts
- Line charts
- Area charts
- Line and stacked column charts
- Line and clustered column charts

13. Power BI Visualizations PT 4

- Ribbon charts
- Waterfall charts
- Funnel charts
- Scatter charts
- Pie charts
- Donut charts
- Slicers
- Cards and Multi-row cards
- Suitable visual choices and beautifications

14. Power BI Visualizations PT 5

- Maps and filled maps
- Latitude and longitude
- Treemaps

15. Power BI Visualizations PT 6

- Table visuals and table formatting
- Matrix
- Drill up and drill down
- Date hierarchy
- Conditional columns
- Sorting days of the week in chronological order
- How to download and customize Power BI themes

16. Power BI Visualizations PT 7

- Theme customization
- Data forecast

- Drill through
- Power BI buttons and customization

17. Sales Insight Dashboard

- Identification of data problems
- Visual choices
- Creation of Sales Insight Dashboard

18. DAX PT 1

- Quick measures
- New measures
- DAX (Text) functions
 - LEFT
 - RIGHT
 - LENGTH
 - MID
 - CASES
 - CONCATENATION

19. DAX PT 2

- Calculated columns
- DAX functions
 - SWITCH
 - IF
 - SWITCH as a logical command

20. DAX PT 3

- DAX function reference
- DAX functions
 - AND
 - SUM
 - OR
 - YEAR
 - MONTH
 - WEEKDAY
 - AVERAGE
 - MIN
 - MAX
 - COUNT
 - DISTINCTCOUNT
 - Measures arrangement

21. DAX PT 4

- DAX Functions
 - SUMX
 - AVERAGEX
 - CALCULATE
 - CALCULATE + SUM
 - Health sector analysis

22. Detailed Sales Analysis

- Full analysis of a sales dataset
 - Profit margin

- Revenue and profit differences
- Average discount
- Net sales
- Total sales

23. Q &A feature

- Understanding Power BI Q & A feature
- Q & A setup
- How to configure the Q & A feature
- Q & A Synonyms and relationships
- Conversion to standard visuals

24. Power BI Service PT 1

- Power BI Analyze and summarize feature
- Creating a Power BI account
- Creating and customizing a workspace
- Publishing to Power BI Service
- Semantic models
- Microsoft Fabric
- How to get a domain name and work email address.
- How to share report with others

25. Power BI Service PT 2

- Creating folders and arrangement of reports and models
- Downloading Power BI report with data
- Downloading Power BI report with live connection
- Power BI dashboard

26. Power BI Service PT 3

- Creation and customization of Apps
- Data gateway
- Difference between personal and standard modes
- Setting up firewall rules to give gateway access

27. Power BI Service PT 4

- Managing connections and gateways
- Authentication method
- Microsoft privacy levels
- Refreshing of semantic models
- Updating Apps
- Schedule refresh
- Workspace lineage

28. Power BI Mobile

- Downloading Power BI Mobile
- Understanding mobile interface
- Creation of Power BI mobile layout

29. Power BI Portfolio

30. The role of Artificial Intelligence in Data Analytics