

Greetings from Hanvitha Software Online Training.

Power BI +SQL+ Azure Basics Course Content

Course Duration: 30 Days (Daily 1 Hour Per Session)

Session Timings: As per both convenience

Training Type: Online Live Interactive Session

Data ware house basics

- Data warehouse introduction
- DWH definitions
- DWH Architecture
- Schemas
- Types facts
- Types DIM
- OLTP VS OLAP

Power BI Introduction

- Data Visualization,
- Reporting
- Business Intelligence (BI)
- Flow of Work in Power BI Desktop
- Flow of Work in Report server 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

PBI Desktop Installation, PBI Desktop & Service Overview

- Power BI Desktop Installation
- Datasets, Visualizations,
- Reports,
- Dashboards
- Power BI Desktop User Interface
- Fields Pane,
- Visualizations pane,
- Ribbon,
- Views,
- Pages Tab
- Overview of Power Query / Query Editor - Extract, Transform & Load Data
- Connecting to Data Sources, Establish connection to the Excel source,
- notepad,

- SQL
- Importing Data into Power BI or Query Editor
- Transforming the Data using Power Query
- Creating New Measures and New Columns and tables using DAX – Data View
- Saving and Publishing the Visuals or Reports
- Logon to Power BI Service
- View the Reports in PBI Service and Share the reports

Power Query:

Introduction to Power Query – Extract, Transform & Load

- 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,

Datatypes and Filters in Power Query

- Datatypes,
- Changing the Datatype of a Column
- Filters in Power Query
- Filter a Column using Text Filters
- Filter a Column using Number Filters
- Filter a Column using Date Filters
- Filter Multiple Columns

Inbuilt Column Transformations

- Remove Columns / Remove Other Columns
- Name / Rename a Column
- Reorder Columns or Sort Columns
- Add Column / Custom Column
- Split Columns
- Merge Column
- 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 By

Combine Queries (Append Queries & Merge Queries)

- Append Queries / Merge Queries
- Query Options
- Copy Query, Paste Query
- Delete Query, Rename Query
- Enable Load, Include in report Refresh
- Duplicate Query, Reference Query
- Move to Group, Move Up, Move Down

Power Pivot

- Power BI Data Modelling – Relationship View
- Data Modelling 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

Enhancing the Data Model – DAX

- What is DAX,
- 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 Categories

- Date and Time Functions
- Logical Functions
- Text Functions
- Math & Statistical Functions
- Filter Functions
- Time Intelligence Functions
- DAX Date & Time Functions
- Information Functions

Date and Time Functions

- YEAR,
- MONTH,
- DAY
- WEEKDAY,
- WEEKNUM
- FORMAT (Text Function) Month Name,
- Weekday Name
- DATE,
- TODAY,
- NOW
- HOUR,
- MINUTE,
- SECOND,
- TIME
- DATEDIFF,
- CALENDAR
- DATEVALUE,

- TIMEVALUE
- UTCNOW,
- UTCTODAY

DAX Text Functions

- LEN,
- CONCATENATE,
- LEFT,
- RIGHT,
- MID
- UPPER,
- LOWER
- TRIM,
- SUBSTITUTE,
- BLANK
- CODE,
- EXACT
- FIND,
- FIXED
- TRIM,
- UNICHAR
- SEARCH,
- VALUE,
- FORMAT

DAX Logical Functions

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

DAX Math and Statistical Functions

- CURRENCY,
- RAND

- INT,
- ABS
- ROUND,
- ROUNDUP,
- ROUNDDOWN,
- RAND BETWEEN,
- DIVIDE
- EVEN,
- ODD
- SQRT,
- FACT
- SUM,
- SUMX
- MIN,
- MINX
- COUNT,
- COUNTX
- AVERAGE,
- AVERAGEX
- COUNTROWS,
- COUNTBLANK
- CROSSJOIN,
- DISTINCTCOUNT
- MEDIAN,
- RANKX,
- TOPN

DAX Filter Functions

- CALCULATE,
- ALLXECPT
- ALL,
- DISTINCTCOUNT
- FILTER,
- HASONEFILTER
- HASONEVALUE,
- SELECTEDVALUE

DAX Time Intelligence Functions

- Time Intelligence Introduction
- CLOSINGBALANCEMONTH,
- DATEADD
- DATESBETWEEN,
- DATESINPERIOD
- DATESMTD,
- DATESYTD,
- TOTALMTD,
- TOTALYTD
- ENDOFMONTH,
- FIRSTDATE
- LASTDATE,
- STARTOFMONTH,
- SAMEPERIODLASTYEAR

Information Functions

- CONTAINS,
- ISBLANK
- ISERROR,
- ISEVEN
- ISNONTEXT,
- ISTEXT
- ISODD,
- ISNUMBER
- USERNAME

Conditional Formatting

- Text conditional formatting
- Border conditional formatting
- Background conditional formatting
- Font conditional formatting
- Data bars conditional formatting
- Conditional formatting icons

Other Options

- Buttons,

- shapes
- Images,
- New parameter
- What if parameter,
- Gridlines
- Lock objects,
- Bookmarks,
- Selection,
- Performance analyzer,
- Sync slicers,
- edit interactions
- Enter data,
- recent sources,
- refresh
- Data grouping,
- visual analyzing

- **Visualizations**

- Stacked bar chart,
- Stacked column chart
- Clustered bar chart,
- Clustered column chart
- 100% stacked bar chart,
- 100% stacked column chart
- Line chart, Area chart
- Stacked area chart,
- Line and stacked column chart
- Line and clustered column chart,
- Ribbon chart
- Waterfall chart,
- Scatter chart
- Pie chart,
- Donut chart
- Treemap,
- Filled map
- map, Funnel

Introduction to office 365

- What is office 365
- Download custom visuals

Custom Visuals

- Bar chart,
- Chartaccentbarchart
- Hierarchy slicer,
- Linedotchart
- Multi slicer,
- Pivotslicer table heatmap
- Tornado chart

Filters in Power View

Filter Types

- Visual Level Filters,
- Page Level Filters,
- Report Level Filters,
- Drill Through Filters
- Filter Sub Types
- Basic Filtering,
- Advanced Filtering,
- Top N,
- Relative Date Filtering
- Numeric field filters,
- Text field filters,
- Date and Time field Filters

Hierarchies and Drill-Down Reports

- Hierarchy Introduction,
- Default Date Hierarchy,
- Creating Hierarchy,
- Creating Custom Date Hierarchy
- Change Hierarchy Levels
- Drill-Up and Drill-Down Reports,
- Drill Down,
- Drill Up,
- Show Next Level,
- Expand Next Level

- Drilling filters other visuals option

Visualizing KPI Data

- Create and Format Gauge Visual,
- KPI Visual
- Create and Format Card Visualization,
- Multi Row Card
- Create and Format Table Visual,
- Matrix Visualization
- Create and Format Map Visual,
- Filled Map Visual

Power BI Service

- Power BI Service Introduction
- 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
- Power BI Datasets Live Connection using Desktop
- Working with Workbooks,
- working with Reports,
- Sharing Reports
- Creating new reports in services
- Embedding to web,
- share report link
- Row Level Security in Power BI
- Introduction to Row Level Security

Dashboards Development

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

Data Gateways

- Introduction to Data Gateways
- How Data Gateways work
- Connect to an on-premise Data Source by using a Data Gateway
- Download Data Gateway
- Installing a Data Gateway
- Types of Gateways
- On-premises Data Gateway, On-premises Data Gateway (personal mode)
- Manage Data Gateway
- Refresh on Premise Data

SQL Basics

- SQL Introduction
- Installation
- DDL Commands
- DML Commands
- DRL Commands
- Types Joins
- Inner Join
- Left Outer Join
- Right Outer Join
- Full Outer Join
- Select ,Case ,Switch,IF statement

Azure Basics

- Azure basics
- Azure Subscription
- Azure SQL,
- Blob Storage
- ADF basics

For More Details / Enroll for Upcoming Batches Online Training, Please WhatsApp Us at: **+91-7331170335** or **sreepowerbi@gmail.com**

Thanks & Regards