



Corporate Services Pvt. Ltd.

Power BI



● 0124-2357111

● www.moonstonecorporate.com

● 9910073712

● info@moonstonecorporate.com

Moonstone Corporate Services Pvt. Ltd.

U-16/73,74 NEAR CANARA BANK MAIN ROAD DLF
PHASE-III SEC -24, GURUGRAM



Power BI

Comprehensive Power BI Introduction

- Introduction to Power BI
- Data Visualization and Reporting
- Business Intelligence (BI), Traditional BI, Self-Service BI
- Cloud-Based BI, On-Premise BI
- Overview of Power BI Products
- Power BI Desktop (Power Query, Power Pivot, Power View)
- Workflow in Power BI Desktop
- Power BI Report Server, Power BI Service, Power BI Mobile
- Power BI Workflow and Architecture
- Brief History of Power BI

Power BI

Power BI Desktop Installation and Overview

- Installing Power BI Desktop
- Building Blocks of Power BI: Datasets, Visualizations, Reports, Dashboards, Tiles
- Power BI Desktop User Interface: Fields Pane, Visualizations Pane, Ribbon, Views, Pages Tab, Canvas
- Overview of Power Query / Query Editor – ETL (Extract, Transform & Load Data)
- Connecting to Data Sources and Establishing Connections
- Importing Data from Various Sources into Power BI / Query Editor
- Transforming Data Using Power Query
- Data Modeling Using Power Pivot – Relationship View
- Creating New Measures and Columns Using DAX – Data View
- Visualizing Data Using Power View and Power Maps – Report View
- Saving and Publishing Visuals or Reports
- Logging into Power BI Services

Power Query

Introduction to Power Query - ETL (Extract, Transform & Load)

- Data Transformation and Its Benefits
- Shaping or Transforming Data Using Power Query
- Overview and User Interface of Power Query / Query Editor
- The Ribbon (Home, Transform, Add Column, View Tabs)
- The Queries Pane, Data View / Results Pane, Query Settings Pane, Formula Bar
- Advanced Editor – Complete ETL Code
- Saving Work, Applying ETL Changes, and Loading into Power Pivot Model

Power Query

Data Types and Filters in Power Query

- Different Data Types and Changing Data Types of Columns
- Filters in Power Query: Auto Filter, Basic Filtering, Text Filters, Number Filters, Date Filters, Multiple Columns Filters

Inbuilt Column and Row Transformations

- Column Transformations: Remove, Rename, Reorder, Add, Custom, Split, Merge, Pivot, Unpivot, Transpose
- Row Transformations: Header Row, Keep Rows (Top, Bottom, Range, Duplicates, Errors), Remove Rows (Top, Bottom, Alternative, Duplicates, Blanks, Errors), Group Rows

Power Query

Data Types and Filters in Power Query

- Different Data Types and Changing Data Types of Columns
- Filters in Power Query: Auto Filter, Basic Filtering, Text Filters, Number Filters, Date Filters, Multiple Columns Filters

Inbuilt Column and Row Transformations

- Column Transformations: Remove, Rename, Reorder, Add, Custom, Split, Merge, Pivot, Unpivot, Transpose
- Row Transformations: Header Row, Keep Rows (Top, Bottom, Range, Duplicates, Errors), Remove Rows (Top, Bottom, Alternative, Duplicates, Blanks, Errors), Group Rows

Power Query

Combining Queries

- Append Queries: Append Queries, Append Queries as New, Appending Multiple Files, Query Options (Copy, Paste, Delete, Rename, Enable Load, Include in Report Refresh, Duplicate, Reference, Move to Group)
- Merge Queries / Join Queries: Merge Queries, Merge Queries as New, Types of Joins (Left Outer, Right Outer, Full Outer, Inner, Left Anti, Right Anti, Cartesian / Cross Joins)

Power Pivot

Data Modeling – Relationship View

- Introduction to Data Modeling
- Relationships: Need, Types (One-to-One, One-to-Many, Many-to-Many), AutoDetect, Create, Edit, Delete Relationships, Cross Filter Direction (Single, Both), Assume Referential Integrity

Enhancing Data Model – DAX

- DAX: Introduction, Calculated Column, Measures, Table and Column Name Syntax, Creating Calculated Columns and Measures, Implicit vs Explicit Measures, Calculated Columns vs Measures, DAX Syntax & Operators (Arithmetic, Comparison, Text Concatenation, Logical)

Power Pivot

DAX Specific Functions

- Date & Time Functions: YEAR, MONTH, DAY, WEEKDAY, WEEKNUM, FORMAT, 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
- Time Intelligence Functions: TOTALMTD, TOTALQTD, TOTALYTD, PREVIOUSDAY, PREVIOUSMONTH, PREVIOUSQUARTER, PREVIOUSYEAR, NEXTDAY, NEXTMONTH, NEXTQUARTER, NEXTYEAR, SAMEPERIODLASTYEAR, YOY Growth, MOM Growth

Power Pivot

DAX Function Categories

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

Power BI Service

Introduction to Power BI Service

- Power BI Service Overview, Cloud Architecture, Creating and Signing In to Power BI Service Account, Publishing Reports to Power BI Service, Importing Reports, My Workspace / App Workspaces Tabs, DATASETS, WORKBOOKS, REPORTS, DASHBOARDS, Creating Reports in Cloud, Power BI Datasets Live Connection

Power BI Service

Dashboard Development

- Creating Dashboards, Pinning Visuals and Live Report Pages, Advantages of Dashboards, Interacting with Dashboards, Adding Tiles (Web Content, Image, Text Box, Video), Formatting and Sharing Dashboards

Data Gateways

- Introduction to Data Gateways, Functionality, Connecting to On-Premise Data Sources, Downloading, Installing, Managing Data Gateways, Types (On-premises, Personal Mode), Refreshing On-Premise Data, Configuring Automatic Refresh Schedules

Power BI Service

Collaboration Using App Workspaces

- Introduction to App Workspaces, Creating and Managing App Workspaces, Adding Members, Access Levels (Admin, Member, Contributor)

Sharing Content Using Apps and Content Packs

- Introduction to Apps, Publishing and Managing Apps, Sharing Apps with Organizations or Specific Individuals, Unpublishing Apps, Introduction to Content Packs, Creating and Sharing Content Packs, Selecting Content to Publish or Share

Power BI Service

Row-Level Security (RLS)

- Introduction to Row-Level Security, Implementing RLS with DAX, Managing Roles, Creating and Testing Roles, Adding Members, Dynamic RLS, Creating Users Table, Capturing Users with UserName() or UserPrincipalName() DAX Functions

Additional Resources

- Real-Time Case Studies
- Mock Tests
- Project Work
- Interview Preparation
- Study Materials
- Topic-Wise Practice Workbooks with Real-Time Scenarios



Corporate Services Pvt. Ltd.

Power BI



● 0124-2357111

● www.moonstonecorporate.com

● 9910073712

● info@moonstonecorporate.com

Moonstone Corporate Services Pvt. Ltd.

U-16/73,74 NEAR CANARA BANK MAIN
ROAD DLF PHASE-III SEC -24,
GURUGRAM

