



EXCEL SOLUTIONS

Add Extra Skills to Your Professional Career

What is Power BI?

How to download, Install and upgrade features in Power BI

Major components in Power BI

Power Query Editor

Power Pivot

Power View

Power BI Online services

Data connectivity modes in Power BI:

Import, Direct Query and Live connection

Introduction to Basic charts in Power BI:

Column chart--Stacked Column chart--Pie chart--Donut chart

Funnel chart--Ribbon chart—Stacked Bar chart—Line chart

Area chart—Stacked area chart—Line and stacked column chart

Line and clustered column chart—Waterfall chart—Scatter chart

Tree map chart—Gauge chart

Right click options:

Include, Exclude, Show data point as table, Show as table, Summarize, Analyze, Group data and Copy

Introduction to Basic Maps in Power BI:

Creating a simple map

Creating a filled map

Creating a map with Pie chart

Formatting in Power BI maps

Changing Background in maps

Creating a MAP of India

Creating a World map

Creating Tables and Matrix in Power BI:

- Creating a table
- Table Formatting
- Conditional Formatting
- Changing Aggregations
- Creating and applying Conditional formatting in Matrix
- Creating Hierarchies
- Showing Totals and Sub totals in Matrix
- Number Formatting

Introduction to other Visuals in Power BI:

- Decomposition tree, Key influencers, Smart narrative and Tool tip

Cards and Filters in Power BI:

- Cards and Filters in Power BI
- Creating and Formatting Card for number and creating text cards
- Creating Data card and relative data filter
- Creating Multi row card and filter on visual
- Filter on the visual, Filter on page and filters on all pages

Slicers in Power BI:

- Using Drill through, Creating slicers, Date slicers and Number slicers, Sync Slicers and formatting

Introduction to advanced charts in Power BI:

- Creating Advanced charts like Animated Bar Chart
- Creating drill down Donut and column
- Creating Word Cloud, Sankey, Infographics, play axis slicers, Scroller, sunburst and Histogram charts
- Inserting Images, text, Shapes and Buttons

Actions in Power BI:

- Web URL, Page navigation, Bookmarks, Back, Q&A and Drill through

Power Pivot Data Models:

- Importing SQL Server Tables
- Filtering Rows and Columns
- Visuals and data view
- Hiding from Client view

TRANSFORMATIONS:

Text functions in Power BI:

Merge, Split, Trim, Upper, Lower, Proper, adding suffix and prefix
Left, Right, Mid, Extracting text with the Delimiter

Date functions in Power BI:

Year, Quarter, Month, Day, difference between dates earliest and latest
Name of the day and Name of the month
Day of week/month/year & week of the month/year
Extracting date from date and time, Calculating the age

Number functions in Power BI:

Add, Subtract, Divide and multiply
Percentage, Percent of and Modulo
IsEven, IsOdd and sign

APPENDING files and Tables:

Multiple CSV files from a folder
Multiple excel tables/sheets from a single file
Different number of columns
Multiple excel files from a folder
Different data source files

Merging files and Tables:

Merge tables and sheets in power query
Multiple excel files and workbooks
Different data sources

Joins:

Left outer join
Right outer join
Full outer join
Inner Join
Left anti join
Right anti join

Combining the files:

Combining CSV files from the folder and refreshing

Columns from examples and conditional column:

Splitting text, Merging text, Date column, Alphanumeric data, one column, two columns

Comparing two column values and On dates

Fill down and Fill Up, Grouping, Transpose, Unpivot, Data types in Power query

Replace errors and values, Keep rows and remove rows

Add, Remove and GoTo columns

M Language in Power query:

Introduction to M Language

M Functions like Date(IsIn), Date(Add and subtract), Date(Day, Month, Week, Year)

Text(Basic), writing a M code in Power Bi, Trick to get all 900+ M functions

DAX Functions:

Date & Time DAX functions: Now, Quarter, Second, Time, Time value, Edate, EOMonth

Hour, Month, Today, Weekday, Weeknum, Year, Year Frac, Calendar, Calendar Auto, Date

Datediff, Date value,

Counta, Count blank, Count X, Distinct count

Aggregated functions --Sum, Sum X, Average, Count, Max and Min

Filter, Filters and Keep filters

Calculate and Calculate Table

Related and Related Table

Add Columns, Format, Lookup value

Same period last year, Previous year, Previous month, Previous quarter, Previous day

Next year, Next Quarter, Next month , Next day

Date between, Date in period, Parallel period, Date add, First date and Last date

Time intelligence functions like MTD/QTD/YTD

IF, AND, OR and NOT conditions

ALL, All selected and All except

Group by, Summarize, Rank X, TOPN, Cross join, Combin value, Concatenate and Divide

Upper, Lower, Trim, Len, Left, Right, Mid, Replace, Substitute, Find and Rept

ABS, Randbetween, Round, Round up and Round down and INT

Selectedvalue, Generateseries, Username and User principle name,

Switch, ISBlank, ISFilter, Blank, ISOdd, ISEven, ISText, ISNumber

Add column, Selected column, Has one value, Floor and Ceiling

Relationships:

How to create relationships manually

Types of relationships

One to One (1:1)

One to Many (1:*)

Many to One (*:1)

Many to Many (*:*)

Parameters:

Numeric parameter and Field parameter

Context:

Row Context, Query Context and Filter Context

Data Modelling:

What is data model

Benefits of data model

Types of data modelling techniques

1.ENTITY RELATIONSHIP MODEL (E-R)

2.UNIFIED MODELLING LANGUAGE (UML)

What is Fact table

What is Dimension table

What is Star Schema

What is Snowflake Schema

Row Level Security:

Static and Dynamic Row Level Security (RLS)

Manage roles and View as

Dynamic Row Level Security

How to create relationships

Variables:

How to declare variables in Power BI

How to declare variables in Measure, Column and Table

Power BI Online services:

Creating account on Power BI services

Publishing the reports

Exporting the visuals to PPT, PDF and PBIX and share

Comment and share and subscribe to the report

Creating a dashboard in Power BI services

Problems and the solutions

How to refresh reports automatically in Power BI and data gateway

Permissions after sharing in Power BI services

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| Weekend | Online | Fast-track | Offline