
Power BI Course Content

Introducing Power BI

- Introduction to Power BI - Need, Importance
- History - Power View, Power Query, Power Pivot
- Power BI Data Source Library and DW Files
- Power BI Cloud and Power BI Service
- Power BI Architecture - Overview
- Power BI Desktop - Installation, Usage

Introduction to Power BI Desktop

- Getting Data: Excel vs Power BI Desktop & Service
- Direct Query vs Import Data
- Introduction to Modeling
 - Setup and Manage Relationships
 - Cardinality and Cross Filtering
 - Default Summarization & Sort by
 - Creating Calculated Columns
 - Creating Measures

Power BI Desktop

- Creating Visualizations
- Color Formatting
- Setting Sort Order
- Scatter & Bubble Charts & Play Axis
- Tooltips
- Slicers & Timeline Slicers
- Cross Filtering and Highlighting
- Visual, Page and Report Level Filters
- Drill Down/Up
- Hierarchies
- Reference/Constant Lines
- Tables, Matrices & Conditional Formatting
- KPI's, Cards & Gauges
- Map Visualizations
- Custom Visuals
- Managing and Arranging
- Conditional Filters and Clearing. Testing Sets

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- Creating Customized Tables with Power BI Editor
 - General Properties, Sizing, Dimensions, and Positions
 - Alternate Text and Tiles. Header (Column, Row) Properties
 - Grid Properties (Vertical, Horizontal) and Styles

DAX (Data Analysis Expressions) – FUNCTIONS

- Purpose of DAX, Syntax Rules
- Possible Operations and Usage
- DAX Data Types and Operators
- DAX Values and Usage Options
- DAX Functions - Scalar, Statistical
- Mathematical & Time Functions in DAX
- Aggregate & Logical Functions in DAX
- Conversion & Relational Functions in DAX
- Working with Columns and Measures in DAX
- Row Context and Filter Context
- Using DAX for Calculated Columns

BUILDING A DATA MODEL/Edit Query Properties

- Building Power BI Report Model
- Modeling Roles and Techniques
- Building columns for specific charts
- Using DAX for Slicing Operations in Power BI
- Slicing and Dicing Options with Columns, Measures
- IF..ELSEIF.. Conditions with DAX
- Loading individual tables, Default Values
- Implementing Measures, Hierarchies
- Creating Calculated Columns
- KPIs and Actions with Power BI
- Using Images and Videos with Power Reports
- Indexing Connections and Column Duplications
- Conditional Splits, Merge and Pivot/Un pivot

Publishing and Sharing

- Sharing Options Overview
- Publish from Power BI Desktop
- Publish to Web
- Share Dashboard with Power BI Service
- My Workspace vs Groups (Power BI Pro)
- Content Packs (Power BI Pro)
- Print or Save as PDF
- Row Level Security (Power BI Pro)

- Export Data from a Visualization
- Publishing for Mobile Apps
- Export to PowerPoint
- Sharing Options Summary

What's new in Power BI Report Server (Updates)

Power BI Service

- Consuming a service content pack
- Creating a content pack for your organization
- Consuming an organizational content pack
- Updating an organizational content pack
- Working with Pivot & Un Pivot columns
- Creating index and custom columns
- Group By functionality in Query Editor
- Applied Steps in Query Editor, M Language
- Managing Gateways & Content Packs
- Installing Personal, Enterprise Gateways
- Defining relationships between tables
- Creating a custom Data Set From Service
- Publishing a report to Power BI Services

SSAS Tabular Model Course Contents

Visual Studio basics

- Visual Studio windows
- Setting startup options
- Creating a project Connecting to SQL Server
- Creating and using connections
- Filtering rows and columns Creating a data model
- Hiding from client tools
- Renaming tables/columns
- How column storage works

Relationships

- Diagram view
- Creating relationships Excel pivot tables
- Analysing data in Excel
- Connecting from Excel
- Using Excel pivot tables

Other data sources

- Linking to Excel
- Pasting in data

Calculated columns

- Using IF and SWITCH
- BLANK arithmetic
- Linking tables using RELATED

Measures

- Creating measures
- SUMX, AVERAGEX, etc.

Hierarchies

- Creating a hierarchy
- Viewing hierarchies

KPIs

- The parts of a KPI
- Absolute and relative measures
- Creating and viewing KPIs

Perspectives

- Creating perspectives
- Using in Excel

Security

- How security works
- Creating roles
- Filtering rows by role