



POWER BI WITH ADV.EXCEL

DURATION
45 Days

MODULE 1: INTRODUCTION TO POWER BI PART 1

- Getting Started
- Class Introduction (BI Basics)
- Class Introduction (Power BI Desktop Overview)
- Data Discovery with Power BI Desktop
- Transforming Data (Basic Transforms)
- Transforming Data (Add Column From Example)
- Transforming Data (Appending Queries)
- Transforming Data (Merging Queries)
- Transforming Data (Combine Files)
- Transforming Data (M Query Basics)
- Transforming Data (Parameters and Templates)
- Transforming Data (Other Query Features)
- Introduction to Modeling Data
- Creating the Data Model (Modeling Basics)
- Creating the Data Model (Model Enhancements)
- Creating the Data Model (What If Parameters)
- Creating Calculated Columns and Tables (DAX Basics)
- Creating Calculated Columns and Tables (Navigation Function)
- Creating Calculated Columns and Tables (Calculated Tables)
- Creating Calculated Measures (Measure Basics)
- Creating Calculated Measures (Time Intelligence Functions)

MODULE 2:INTRODUCTION TO POWER BI PART 2

- Introduction to Visualizing Data
- Creating Basic Reports with the Power BI Desktop
- Creating Interactive Reports (Adding Slicers for Filters)
- Creating Interactive Reports (Visualizing Tabular Data)
- Creating Interactive Reports (Visualizing Categorical Data)
- Creating Interactive Reports (Visualizing Data Trends)
- Creating Interactive Reports (Visualizing Categorical and Trend Data Together)
- Creating Interactive Reports (Visualizing Geographical Data with Maps)
- Creating Interactive Reports (Visualizing Goal Tracking)
- Creating Interactive Reports (Using Custom Visuals)
- Creating Interactive Reports (Digital Storytelling)
- Creating Interactive Reports (Other Features)
- Using the Power BI Service (Deploying to the Power BI Service)
- Using the Power BI Service (Creating and Sharing Dashboards)
- Using the Power BI Service (Using Power BI Q&A)
- Using the Power BI Service (Setting up App Workspaces)
- Using the Power BI Service (Subscriptions and Alerts)
- Using the Power BI Service (Excel Integration)
- Using the Power BI Service (Export and Embed Options)
- Refreshing the Data (Refreshing Data Overview)
- Refreshing the Data (Installing the Data Gateway) & Refreshing the Data (Scheduling a Data Refresh)
- Mobile BI (Power BI Mobile Overview)
- Mobile BI (Designing Reports and Dashboards for Mobile)
- Mobile BI (Interacting with the Power BI Mobile App)

MODULE 3:INTRODUCTION TO DAX

- Getting Started & Data Modeling Basics (Overview)
- Data Modeling Basics (Tabular)
- What is DAX (Overview)
- What is DAX (Tabular)
- Creating Calculated Columns (Basics)

- Navigation Functions
- Conditional and Logical Functions Creating Calculated Measures
- Time Intelligence (Overview)
- Time Intelligence (Time Intelligence Functions)
- Using X-Functions and A-Functions
- Table Functions & DAX as a Query Language

MODULE 4:ADVANCED DAX

- Class Introduction (Class Files)
- Class Introduction (Why Advanced DAX)
- Working with Variables
- Working with Filter Context (What is Filter Context?)
- Working with Filter Context (CALCULATE)
- Working with Filter Context (Overriding Filter Context)
- Working with Filter Context (FILTER)
- Working with Filter Context (FILTER and ALL)
- Working with Filter Context (ALLEXCEPT)
- Working with Filter Context (Totals)
- CALCULATE and Time Intelligence (YTD and MTD)
- CALCULATE and Time Intelligence (Rolling 12 Months Total)
- CALCULATE and Time Intelligence (Rolling 3 Month Average Total)
- Semi-Additive Measures (Overview)
- Semi-Additive Measures (Opening and Closing Balance)
- Row Context (Understanding Row Context and Context Transition)
- Row Context (Working with Iterator Functions)
- Nested Row Context
- Error Handling & Security (Implementing Basic Security)
- Security (Dynamic Security)
- Security (Implementing Basic Security – Tabular)
- Security (Dynamic Security – Tabular)
- Role Playing Dimensions (Multiple Table Import)
- Role Playing Dimensions (USERRELATIONSHIP)
- Advanced DAX Function (CONTAINS)
- Advanced DAX Function (FIND)

- Advanced DAX Function (SEARCH and SUBSTITUTE)
- Advanced DAX Function (ALLSELECTED)
- Advanced DAX Function (RANKX)

MODULE 5: POWER BI REPORT SERVER

- Class Introduction
- Getting Started (Power BI Desktop)
- Getting Started (Licensing)
- Installation
- Configuration
- Deployment (Publish to Report Server)
- Deployment (Uploading from Report Server)
- Deployment (Folder Structure)
- Scheduling a Data Refresh Security (Row Level Security)
- Security (Assigning Power BI Report Permissions)

MODULE 6: ADVANCED EXCEL

GENERAL RULES:

- Excel interface & productivity shortcuts
- Relative / Absolute / Mixed references
- Advanced sorting & filtering
- Freeze panes, split view

MODULE 7: ADVANCED EXCEL FUNCTIONS

LOGICAL

- IF, IFS, AND, OR
- Nested IF, IFERROR

LOOKUP

- VLOOKUP, HLOOKUP
- XLOOKUP
- INDEX + MATCH

TEXT

- LEFT, RIGHT, MID
- TRIM, CLEAN
- CONCAT, TEXTJOIN

DATE & TIME

- DATEDIF
- EOMONTH
- WORKDAY, NETWORKDAYS

CONDITIONAL

- SUMIFS, COUNTIFS, AVERAGEIFS

MODULE 8: DATA CLEANING & PREPARATION

- Remove duplicates
- Text to columns
- Flash fill
- Data validation
- Handling missing values
- Formatting raw data for analysis

MODULE 9: CONDITIONAL FORMATTING & TABLES

- Formula-based formatting
- Highlight trends & exceptions
- Excel Tables (CTRL + T)
- Dynamic ranges
- Named ranges

MODULE10: PIVOT TABLES & EXCEL DASHBOARDS

- Pivot tables & charts
- Calculated fields
- Slicers & timelines
- Interactive Excel dashboards
- KPI cards in Excel

MODULE11: : POWER QUERY IN EXCEL

- Import data (Excel, CSV, Text, Web)
- Data transformation
- Merge & append
- Refresh automation
- Preparing data for Power BI