



MICROSOFT POWER BI

OVERVIEW

Microsoft Power BI is becoming the world's most powerful self-service BI platform. This business analytical tool delivers insight into any organization and will give you the ability to drive and direct informed and agile business decisions. Power BI is the easiest to use data analysis, reporting and interactive tool. You can create your own dataset based on a single or multiple source and transform this data into professional-quality interactive dashboards.

With this training, your teams will be able to convert extensive amounts of unfiltered data into actionable dashboards and reports. It enables you to evaluate important business metrics, foresee future trends, and excavate hidden insights.

COURSE OBJECTIVES

- Learn Power BI Best Practice, Tips and Tricks
- Understand Power BI Desktop and its components
- Learn how to connect to different data sources using Query Editor
- Learn how to work in different views of the Data Model
- Learn to create calculated columns and measures
- Learn to use the DAX Formula language to develop powerful calculations
- Learn how to create a wide range of charts and visualizations
- Learn how to create, modify and customize interactive dashboards, visualization and reports to convey specific business KPI and measures

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INTRODUCING POWER BI DESKTOP

- Understanding the Power BI tools
- An Overview of the Workflow
- Introducing the Different Views of the Data Model

AN INTRODUCTION TO THE QUERY EDITOR (EXTRACT, TRANSFORM & LOAD)

- What is the Query Editor
- Looking at the Query Editor Interface
- Types of Data Connectors
- Transform basic tables
- Formatting text, numbers and dates
- Index and Conditional columns
- Pivoting and unpivoting columns
- Modifying, merging and appending queries
- Query Editor and Power BI best practice

WORKING ON THE DATA MODEL

- Introduction to Database Normalization
- FACT tables vs DIMENSION tables
- Introducing and understanding relationships
- Active vs Inactive Relationships
- Understanding Cardinality
- Star vs Snowflake Schemas
- Connecting Multiple data tables
- Cross filter selection and Many-to-many relationships
- Hiding fields from the Report view
- Data Modelling and Power BI best practices

WORKING WITH DAX

- Introduction to DAX
- DAX and calculated columns
- DAX syntax and operators
- Common Power BI functions
- Date and Time intelligence formulas
- Logical and Conditional Formulas
- Text, Math and Stats functions
- DAX and Power BI best practices

WORKING IN REPORT VIEW TO VISUALIZE OUR RESULTS

- Introduction to Report View
- Understand the Power View Interface
- Adding basic charts
- Formatting and filtering options
- Matrix visuals
- Slicers and Timelines
- Creating Cards and KPI
- Power BI Maps
- Types of visualizations
- Applying different filter types
- Managing and Viewing roles
- Data Visualization best practices