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Microsoft Power BI

Course Overview:

This Power BI training teaches attendees how to create Power BI data models, reports, and dashboards.

Students learn how to connect to a data source, transform data, organize a data model, create measures to summarize their data, and express their data using Power BI visualizations.

Participants can take their new skills and immediately apply them to their current projects.

Course duration: 12 contact hours

Objectives:

- Consume example Power BI reports and dashboards
- Extract, transform, and load data using the Power Query Editor tool
- Set up a Star Schema data model
- Create, format, and organize basic measures using the DAX language
- Select and format visuals according to practical and aesthetic best practice
- Push a report to Power BI services and create a dashboard
- Connect to various data sources

Course Outline:

Exploring PBI Services Service
- Key Power BI Concepts and Terms
- Power BI Report Capabilities and Features
- Power BI Dashboard Capabilities and Features

Making A Report and Dashboard
- Data Storytelling Best Practices and Mistakes to Avoid
- Report editing and building
- Visual selection and page formatting

- Dashboard Use Cases
- Tile Pinning
- Guided Report and Dashboard Building Exercise

Power BI Desktop Tour
- Desktop Views
  - ✓ Report
  - ✓ Data
  - ✓ Model
- Taskbar
  - ✓ Home
  - ✓ Insert
  - ✓ Modeling
  - ✓ View

Import and Transform Data
- Power Query Editor Capabilities;
  - ✓ Extract
  - ✓ Transform
  - ✓ Load
- Common connectors
- Power Query Panes;
  - ✓ Query
  - ✓ Data
  - ✓ Query Settings
- Taskbar Review;
  - ✓ Home
  - ✓ Transform
  - ✓ Add Column
  - ✓ View

Star Schema Table Relationships
- Manage Relationships
- Star Schema Breakdown
- Configuring Relationships;
  - ✓ Cardinality
  - ✓ Direction

Creating, Formatting, and Organizing DAX Measures

- Create Measures Using DAX
- Create Columns Using DAX
- Using Quick Measures Feature
- Filtering
- Key Aggregations;
  - ✓ Totals
  - ✓ Averages
  - ✓ Counts
- Formatting
- Organizing IN Measures Folder

Visual Selection and Report View Creation

- Fundamental Report Visuals and Their Use Cases
- Unguided Report Creation
- Show and Tell: Report Build Idea Pooling

Publish Report To PBI Services and Make Dashboard

- Develop Dashboard from Report Build

Capstone Project

- End-to-End Build from Dataset;
  - ✓ Data Model
  - ✓ Report
  - ✓ Dashboard