

Power BI Desktop

Data Modeling

Course Length: 8 Hours

Course Objectives

Upon successful completion of this course, students will be able to:

- Navigate in Power BI Desktop
- View and Understand Data Models
- Create Reports using Data Model Data
- Use DAX Functions
- Create Measures
- Import Data using Power Query

Course Content

1: Power BI Solution Overview

- What is Power BI?
- What is Power BI Desktop?
- What is Power Pivot?
- Understanding “The Big Picture”

2: Creating the Data Model

- What is a Data Model?
- Where Should I Build my Data Model?
- Exploring the Data Model Interfaces

- Creating Table Relations
- Creating a Star Schema
- Creating Linked Tables
- Creating Hierarchies
- Making a User-Friendly Model

3: Exploring the Data Model Manager Interfaces

- Exploring the Data Model Manager Interfaces
- Understanding Date Tables
- Creating a Measure and a KPI
- Adding Visualizations

4: Understanding DAX Calculations

- What is DAX?
- Implementing DAX Operators
- Using a DAX Text Function to Create a Calculated Column
- Using DAX Date and Time Functions

5: Importing Data into Power BI Desktop

- Importing Data from Relational Databases
- Importing Data from Text Files
- Importing Data from a Data Feed
- Reusing Existing Connections to Update the Model

6: Power Query Awareness

- Benefits of Power Query/Get Data
- Basic Append