Power Bl Desktop

Data Analytics and Business Intelligence

Summary

This course provides an introduction on how to refine, analyze and visualize data with Power BI Desktop.

A rich corporate data set is used to build a professional quality interactive dashboard. The relationships between various data sources are defined to create a relational data model. This model forms the foundation for an interactive dashboard with a variety of exhibits.

Participants will be able to explore the company's data by cross-filtering and drilling down through various levels in the exhibits.

This course is designed as an introduction to Microsoft Power BI Desktop which is free to download and install.

Note: Power BI Desktop software is currently only available for PC / Windows.



Prerequisites

Participants should have a basic working knowledge of Excel and are expected to download & install Power BI Desktop in advance of the course.



Timing

This course requires 1 day.

Learning Topics

1. Connecting & Refining Data

- Overview of Power BI interface and workflow
- Review some common types of data connections
- Discuss best practices for editing queries
- Settings for defining data categories
- Demonstration of basic table transformations
- Tools used to manipulate text, numbers and dates
- Creating Index and conditional columns

2. Building a Relational Data Model

- Review of best practices for data modeling
- Common guidelines for database normalization
- Discussion of lookup tables and data tables
- Understanding primary keys and foreign keys
- Creating, defining and editing table relationships
 Review of star schemas and snowflake schemas
- Discussion of relationship cardinality

3. Data Visualization with Reports

- ✓ Best practices and guidelines for report design
- ✓ Introduction and layout of the Report View
- Adding various visualizations to reports
- Visualization options for fields and formatting
- ✓ Using slicers to filter report visualizations
- ✓ Filtering at various levels in Report View
- Editing interactions to control cross-filtering

