



Analyzing Data with Power BI

10989A 2 Days

Instructor-led, Hands on

Course Information

This two-day instructor-led course provides students with the knowledge and skills analyze data with Power BI.

The primary audience for this course is BI professionals who need to analyze data utilizing Power BI.

The secondary audiences for this course are technically proficient business users.

At Course Completion

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

- Describe key features of a self-service BI solution
- Describe Power BI and its data sources
- Model, shape, and combine data
- Describe Power BI data visualizations

Prerequisites

In addition to their professional experience, students who attend this training should have technical knowledge equivalent to the following course:

- Basic knowledge of the Microsoft Windows operating system and its core functionality.
- Basic knowledge of data warehouse schema topology (including star and snowflake schemas).
- Some exposure to basic programming concepts (such as looping and branching).
- An awareness of key business priorities such as revenue, profitability, and financial accounting is desirable.
- Familiarity with Microsoft Office applications – particularly Excel.

These prerequisites can be achieved by attending courses

- 20761A – Querying Data with Transact-SQL
- 20767A - Implementing a SQL Server Data Warehouse

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Course Outline

Module 1: Introduction to Self-Service BI Solutions

In this module students will be introduced to the key concepts in business intelligence, data analysis, and data visualization. In addition, they will learn the rationale for self-service BI, considerations for using self-service BI, and how Microsoft products can be used to implement a self-service BI solution.

Lessons

- Introduction to business intelligence
- Introduction to data analysis
- Introduction to data visualization
- Overview of self-service BI
- Considerations of self-service BI
- Microsoft tools for self-service BI

Lab : Exploring an enterprise BI solution

After completing this module, you will be able to:

- Describe key concepts in business intelligence
- Describe key concepts in data analysis
- Describe key concepts in data visualization
- Describe the rationale for self-service BI
- Describe considerations for self-service BI
- Describe how Microsoft products can be used to implement a self-service BI solution

Module 2: Introducing Power BI

This module introduces Power BI.

Lessons

- Power BI
- The Power BI service
- Power BI mobile apps

Lab : Creating a Power BI dashboard

- After completing this module, you will be able to:
- Describe Power BI
- Describe the Power BI Service
- Implement Tenant Management
- Describe Power BI mobile apps
- Create a simple dashboard

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Module 3: Power BI Data

This module describes Power BI data sources.

Lessons

- Using Excel as a Power BI data source
- Using databases as a Power BI data source
- The Power BI service

Lab : Import data into Power BI

After completing this module, you will be able to:

- Use Excel as a Power BI data source
- Use databases as a Power BI data source and describe the R language
- Configure the Power BI Service

Module 4: Shaping and Combining Data

This module describes how to shape and combine data.

Lessons

- Power BI desktop queries
- Shaping data
- Combining data

Lab : Shaping and combining data

After completing this module, you will be able to:

- Create Power BI Desktop queries
- Shape data
- Combine data

Module 5: Modelling Data

This module describes how to model data in Power BI.

Lessons

- Relationships
- DAX queries
- Calculations and measures

Lab : Modelling data

After completing this module, you will be able to:

- Configure the Power BI Service
- Create Relationships
- Write simple DAX queries
- Create calculations and measures

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Module 6: Interactive Data Visualizations

This module describes Power BI visualizations.

Lessons

- Creating Power BI reports
- Managing a Power BI solution

Lab : Creating a Power BI report

After completing this module, you will be able to:

- Use Power BI Desktop to create interactive data visualizations
- Describe the management of a Power BI solution