

Analyzing Data with Power BI

The main purpose of the course is to give participants a good understanding of data analysis with Power BI.

The course includes creating visualizations, the Power BI Service, and the Power BI Mobile App

Who Should Attend

The course will likely be attended by SQL Server report creators who are interested in alternative methods of presenting data.

Course Prerequisites

Before attending this course, participants should have:

- > Excellent knowledge of relational databases and reporting
- > Some basic knowledge of data warehouse schema topology (including star and snowflake schemas)
- > Some exposure to basic programming constructs (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

Course Objectives

After completing this course, participants will be able to:

- > Perform Power BI desktop data transformation
- > Describe Power BI desktop modeling
- > Create Power BI desktop visualisation
- > Implement the Power BI service
- > Describe how to connect to Excel data
- > Describe how to collaborate with Power BI Data
- > Connect directly to data stores
- > Describe the Power BI developer API
- > Describe the Power BI mobile app

Course Code: 20778b
Course Duration: 3 Days
SATV: Yes

Course Summary

- Module 1: Introduction to Self-Service BI Solutions
- Module 2: Introducing Power BI
- Module 3: Power BI
- Module 4: Shaping and Combining Data
- Module 5: Modelling Data
- Module 6: Interactive Data Visualisation
- Module 7: Direct Connectivity
- Module 8: The Developer API
- Module 9: Power BI Mobile App



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Course Outline

Module 1: Introduction to Self-Service BI Solutions

This module introduces business intelligence (BI) and how to self-serve with BI

- > Introduction to Business Intelligence?
- > Introduction to data analysis
- > Introduction to data visualisation
- > Overview of self-service BI
- > Considerations for self-service BI
- > Microsoft tools for self-service BI

Module 2: Introducing Power BI

This module introduces Power BI desktop, and explores the features that enable the rapid creation and publication of sophisticated data visualisations.

- > Power BI
- > The Power BI Service

Module 3: Power BI

At the end of this module, participants will be able to explain the rationale and advantages of using Power BI

- > Using Excel as a data source for Power BI
- > The Power BI data model
- > Using databases as a data source for Power BI
- > The Power BI Service

Module 4: Shaping and Combining Data

This module introduces the tools that are available for preparing your data, and transforming it into a form ready for reporting.

- > Power BI desktop queries
- > Shaping Data
- > Combining Data

Module 5: Modeling Data

This module describes how to shape and enhance data

- > Relationships
- > DAX queries
- > Calculations and measures

Module 6: Interactive Data Visualisations

This module describes how to create and manage interactive data visualisations

- > Creating Power BI Reports
- > Managing a Power BI solution

Module 7: Direct Connectivity

This module describes various connectivity options using Power BI

- > Cloud Data
- > Connecting to analysis services

Module 8: Developer API

This module describes the developer API within Power BI

- > The Developer API
- > Custom Visuals

Module 9: Power BI Mobile App

This module describes the Power BI Mobile App

- > The Power BI Mobile App
- > Using the Power BI Mobile App
- > Power BI Embedded

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