

# PREPARE AND VISUALIZE DATA WITH MICROSOFT POWER BI (DP-605)

Course Code: 834022

Transform and load data, define semantic model relationships and calculations, create interactive visuals, and distribute reports using Power BI.

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## What You'll Learn

Students will learn to,

- Get data in Power BI
- Clean, transform, and load data in Power BI
- Design a semantic model in Power BI
- Add measures to Power BI Desktop models
- Add calculated tables and columns to Power BI Desktop models
- Design Power BI reports
- Configure Power BI report filters
- Create and manage workspaces in Power BI
- Manage semantic models in Power BI

## Who Needs to Attend

Students who want to generate dynamic reports with Microsoft Power BI

## Prerequisites

Completion of the [Get started with Microsoft data analytics](#) is recommended.

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CLASSROOM LIVE

\$675 USD

1 Day

## Classroom Live Outline

### Module 1 : Get data in Power BI

- Identify and connect to a data source
- Get data from a relational database, like Microsoft SQL Server
- Get data from a file, like Microsoft Excel
- Get data from applications
- Get data from Azure Analysis Services
- Select a storage mode
- Fix performance issues
- Resolve data import errors

### Module 2 : Clean, transform, and load data in Power BI

- Resolve inconsistencies, unexpected or null values, and data quality issues.
- Apply user-friendly value replacements.
- Profile data so you can learn more about a specific column before using it.
- Evaluate and transform column data types.
- Apply data shape transformations to table structures.
- Combine queries.
- Apply user-friendly naming conventions to columns and queries.
- Edit M code in the Advanced Editor.

### Module 3 : Design a semantic model in Power BI

- Create common date tables
- Configure many-to-many relationships
- Resolve circular relationships
- Design star schemas

### Module 4 : Add measures to Power BI Desktop models

- Determine when to use implicit and explicit measures.

- Create simple measures.
- Create compound measures.
- Create quick measures.
- Describe similarities of, and differences between, a calculated column and a measure.

#### **Module 5 : Add calculated tables and columns to Power BI Desktop models**

- Create calculated tables.
- Create calculated columns.
- Identify row context.
- Determine when to use a calculated column in place of a Power Query custom column.
- Add a date table to your model by using DAX calculations.

#### **Module 6 : Design Power BI reports**

- Learn about the structure of a Power BI report.
- Learn about report objects.
- Select the appropriate visual type to use.

#### **Module 7 : Configure Power BI report filters**

- Design reports for filtering.
- Design reports with slicers.
- Design reports by using advanced filtering techniques.
- Apply consumption-time filtering.
- Select appropriate report filtering techniques.

#### **Module 8 : Create and manage workspaces in Power BI**

- Create and manage Power BI workspaces and items.
- Distribute a report or dashboard.
- Monitor usage and performance.
- Recommend a development lifecycle strategy.
- Troubleshoot data by viewing its lineage.
- Configure data protection.

#### **Module 9 : Manage semantic models in Power BI**

- Use a Power BI gateway to connect to on-premises data sources.
- Configure a scheduled refresh for a semantic model.
- Configure incremental refresh settings.
- Manage and promote semantic models.
- Troubleshoot service connectivity.
- Boost performance with query caching (Premium).

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VIRTUAL CLASSROOM LIVE

\$675 USD

1 Day

## Virtual Classroom Live Outline

### Module 1 : Get data in Power BI

- Identify and connect to a data source
- Get data from a relational database, like Microsoft SQL Server
- Get data from a file, like Microsoft Excel
- Get data from applications
- Get data from Azure Analysis Services
- Select a storage mode
- Fix performance issues
- Resolve data import errors

### Module 2 : Clean, transform, and load data in Power BI

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- Profile data so you can learn more about a specific column before using it.
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- Apply data shape transformations to table structures.
- Combine queries.
- Apply user-friendly naming conventions to columns and queries.
- Edit M code in the Advanced Editor.

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- Create common date tables
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Aug 18 - 18, 2025 | 9:00 AM - 5:00 PM EDT

Oct 31 - 31, 2025 | 9:00 AM - 5:00 PM EDT

Dec 15 - 15, 2025 | 9:00 AM - 5:00 PM EST

Feb 13 - 13, 2026 | 9:00 AM - 5:00 PM EST

Mar 2 - 2, 2026 | 9:00 AM - 5:00 PM EST



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PRIVATE GROUP TRAINING

1 Day

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