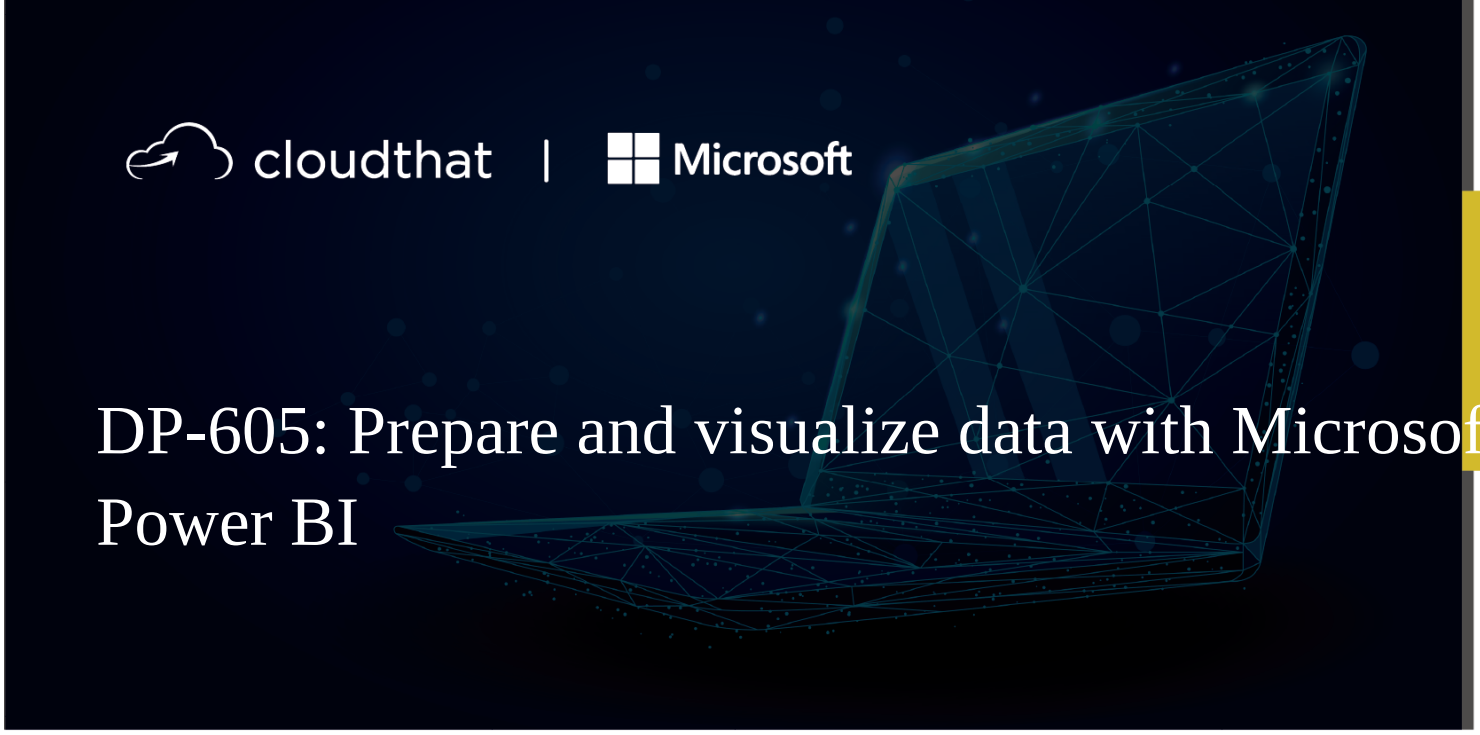


DP-605: Prepare and visualize data with Microsoft Power BI

Course description

The DP-605 course, Prepare and visualize data with Microsoft Power BI, introduces learners to Microsoft Power BI for data preparation, modeling, visualization, and analytics. Learners connect to data sources, transform and clean data, design a basic data model, create interactive reports, understand Copilot for Power BI, and understand end-to-end analytics with Microsoft Fabric.

• Course level: Intermediate
• Duration: 1 day (8 hours)

Activities

This course includes presentations, demonstrations, hands-on labs, and guided exercises using Power BI Desktop.

Course objectives

After completing this course, learners will be able to:

- Explain the tasks of a data analyst and the building blocks of Power BI.
- Identify and connect to data sources and configure data source settings.
- Select an appropriate storage mode and optimize data import performance.
- Clean, profile, transform, and load data with Power Query.
- Resolve data quality issues and combine queries.
- Design a basic data model using tables, relationships, and a star schema.
- Create, format, filter, and configure interactive Power BI reports.
- Use themes, conditional formatting, custom visuals, slicers, and report page settings.
- Understand Copilot features for creating and summarizing Power BI reports.
- Describe Microsoft Fabric, its analytics roles, and how Fabric is enabled and used.

Intended audience

- Professionals beginning their journey with Power BI who want practical experience creating reports.
- Learners seeking an introduction to Power BI, including connecting to data, basic data preparation and modeling, and report design.

Prerequisites

- Basic understanding of core data concepts is recommended
- Understanding of relational databases is beneficial.

Course outline

Module 1: Getting Started with Microsoft Data Analytics

- Tasks of a Data Analyst
- Getting Started with Power BI
- Building Blocks of Power BI

Module 2: Get Data in Power BI

- Identify and connect to a data source
- Change data source settings
- Select a storage mode
- Optimize performance
- Resolve data import errors
- Lab: Get Data in Power BI Desktop

Module 3: Clean, Transform, and Load Data in Power BI

- Shape the data
- Profile the data
- Resolve inconsistencies, unexpected or null values, and data quality issues
- Identify and create appropriate keys for joins
- Evaluate and transform column data types
- Shape and transform tables
- Combine queries
- Apply user-friendly naming conventions to columns and queries
- Configure data loading
- Lab: Load Data in Power BI Desktop

Module 4: Design a Data Model in Power BI

- Define the tables
- Configure table and column properties

- Design a data model that uses a star schema

Module 5: Create Reports

- Add visualization items to reports
- Choose an appropriate visualization type
- Format and configure visualizationsDescribe Microsoft Dataverse
- IntroductionUse a custom visual
- Describe differences between traditional databases and DataverseApply and customize a theme
- Describe tables, columns, and relationships in DataverseConfigure conditional formatting
- Describe the options for business logic in DataverseApply slicing and filtering
- Describe table forms and viewsConfigure the report page
- Create and edit tables, columns, and relationships through conversationsApply sorting
- Describe Power FxConfigure sync slicers
- Comment on reports
- Lab: Design a Report in Power BI DesktopDescribe Power Platform governance and administration

Module 6: Explore Copilot for Power BI

- Copilot features
- Create reports and summarize reports

Module 7: Explore end-to-end analytics with Microsoft Fabric

- Introduction to Microsoft Fabric
- Understand data teams and roles that use Fabric
- Describe how to enable and use Fabric

cloudthat

Your course overview ends here.

But your cloud journey doesn't!

Unlock advanced training and certification pathways with **CloudThat.**



About CloudThat

Established in 2012, CloudThat is an award-winning company and the first in India to offer cloud training and consulting services for individuals and enterprises worldwide. Recently, it won Google Cloud's New Training Partner of the Year Award for 2025, becoming the first company in the world in 2025 to hold awards from all three major cloud giants: AWS, Microsoft, and Google. CloudThat notably won consecutive AWS Training Partner of the Year (APJ) awards in 2023 and 2024 and the Microsoft Training Services Partner of the Year Award in 2024, bringing its total award count to an impressive 12 awards in the last 8 years.

CloudThat specializes in Cloud Migration, Data Platforms, DevOps, IoT, and cutting-edge technologies like Gen AI & AI/ML. As a Microsoft Solutions Partner, AWS Premier Tier Training Partner, Google Cloud Platform Partner, and collaborator with leading organizations like HPE, Oracle, Nvidia and Databricks, CloudThat has trained over 850,000 professionals across 600+ cloud certifications, empowering students and professionals worldwide to advance their skills and careers.

To know more about our cloud certification training, email at sales@cloudthat.com or call us at +91-8880002200 or +1-8555588830 for those from outside India.