
DP-605: Develop dynamic reports with Microsoft Power BI

Course description

Microsoft Power BI offers a comprehensive solution for Data Analytics, from data ingestion to visualization and distribution. Through tools including Power BI Desktop, Power Query, and the Power BI service, users can create dynamic and interactive reports that provide valuable insights and inspire data-informed decisions within your organization.

This course introduces the fundamental skills necessary for data analysis using Power BI.

Learning objectives

After completing this course, students will be able to:

- Connect to data sources
- Transform and load data with Power Query Editor
- Extend semantic model with relationships and DAX
- Select visualizations and design report elements with Power BI Desktop
- Publish reports to Power BI service
- Deploy and maintain items in Power BI service

Audience profile

The ideal audience are those wanting to expand their knowledge of data modeling, visualization, and analysis with the use of Microsoft Power BI.

Audience prerequisites

Students for this course are familiar with data manipulation and may have some experience with data analysis. They are likely Microsoft Excel power users and may have used other reporting tools. They need to understand how to use desktop applications, including GUI and code, and how to navigate online platforms.

Module Deck #	Estimated Minutes	Classroom Activity
M00	30	<p>Course Introduction</p> <ul style="list-style-type: none"> Note: Be conscious of timing for introductions due to limited time.
	15	<p>Getting started with Microsoft data analytics</p> <ul style="list-style-type: none"> Topics: Microsoft data analytics, building block of Power BI
M01	75	<p>Prepare data in Power BI Desktop</p> <ul style="list-style-type: none"> Topics: Connect, transform, and load data with Power Query. Lab: Load data in Power BI Desktop (45 minutes)
	60	<p>Design a Semantic model in Power BI</p> <ul style="list-style-type: none"> Topics: Configure relationships, hierarchies, and model properties. Lab: Model Data in Power BI Desktop (45 minutes)
	75	<p>Create Measures using DAX in Power BI</p> <ul style="list-style-type: none"> Topics: Calculated measures, columns, and tables, and date tables. Lab: Create DAX Calculations in Power BI Desktop (45 minutes)
M02	75	<p>Create Reports</p> <ul style="list-style-type: none"> Topics: Select visuals, report layout, slicers, basic formatting. Lab: Design a Report in Power BI Desktop (45 minutes)
	45	<p>Deploy and maintain items in Power BI service</p> <ul style="list-style-type: none"> Topics: Publish reports, create workspace and items, distribute items
	15	<p>Wrap-up</p> <ul style="list-style-type: none"> Topics: Summary, final Q&A, open forum.