

DA-100T00 - Analyzing Data with Microsoft Power BI

Overview

This course will discuss the various methods and best practices that are in line with business and technical requirements for modeling, visualizing, and analyzing data with Power BI. The course will also show how to access and process data from a range of data sources including both relational and non-relational data. This course will also explore how to implement proper security standards and policies across the Power BI spectrum including datasets and groups. The course will also discuss how to manage and deploy reports and dashboards for sharing and content distribution. Finally, this course will show how to build paginated reports within the Power BI service and publish them to a workspace for inclusion within Power BI.

Prerequisite Comments

In addition to their professional experience, students who take this training should have technical knowledge equivalent to the information found in the Azure Fundamentals course.

Target Audience

The audience for this course are data professionals and business intelligence professionals who want to learn how to accurately perform data analysis using Power BI. This course is also targeted toward those individuals who develop reports that visualize data from the data platform technologies that exist on both in the cloud and on-premises.

Course Objectives

After completing this course, students will be able to:

- Ingest, clean, and transform data
- Model data for performance and scalability
- Design and create reports for data analysis
- Apply and perform advanced report analytics
- Manage and share report assets
- Create paginated reports in Power BI

Course Outline

1 - Get Started with Microsoft Data Analytics

Data Analytics and Microsoft
Getting Started with Power BI
Tour and use the Power BI service
Power BI in the Enterprise
Knowledge Check

2 - Prepare Data in Power BI

Get data from various data sources
Optimize performance
Resolve data errors
Knowledge Check

3 - Clean, Transform, and Load Data in Power BI

Data shaping
Enhance the data structure
Data Profiling
Knowledge Check

4 - Design a Data Model in Power BI

Introduction to data modeling
Working with tables
Dimensions and Hierarchies
Knowledge Check

5 - Create Measures using DAX in Power BI

Introduction to DAX
DAX context
Advanced DAX
Knowledge Check

6 - Optimize Model Performance

Using Variables
Fine-tune the data model
Optimize DirectQuery Models
Create and manage Aggregations
Knowledge Check

7 - Create Reports

Design a report
Enhance the report
Knowledge Check

8 - Create Dashboards

Create a Dashboard
Real-time Dashboards
Enhance a Dashboard
Knowledge Check

9 - Create Paginated Reports in Power BI

Paginated report overview
Create Paginated reports
Knowledge Check

10 - Perform Advanced Analytics

Advanced Analytics
Data Insights through AI visuals
Knowledge Check

11 - Create and Manage Workspaces

Creating Workspaces
Sharing and Managing Assets
Knowledge Check

12 - Manage Datasets in Power BI

Parameters
Datasets
Knowledge Check

13 - Row-level security

Security in Power BI
Knowledge Check
