

Analyzing Data with Power BI

Length: 4 Days

About this course: 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 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.

Learning 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 CONTENT

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