PL-300T00: Microsoft Power BI Data Analyst

Course description

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.

Audience

The audience for this course is those individuals who develop reports that visualize data from the data platform technologies that exist both in the cloud and on premises.

Students don't need to have any experience with Power BI before taking this course; however, students should have a fundamental understanding of core data concepts, knowledge of working with relational data in the cloud, knowledge of working with non-relational data in the cloud, and knowledge of data analysis and visualization concepts. Additionally, a basic level of familiarity with computer technology, cloud computing, and the Internet is assumed.

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



Course Outline

Microsoft Official Course	Agenda	Labs
0: Course Introduction	Note: time may vary due to the number of student introductions in each course	
1: Get Started with Microsoft Data Analytics	 Data Analytics and Microsoft Get Started with Power Bl 	
2: Getting Data in Power Bl	 Connect to data sources Profile the Data Resolve Data Errors Shape and transform data structure Optimize Performance 	 Lab 1: Set up your own environment Lab 2: Get Data in Power BI Desktop Lab 3: Load Transformed data in Power BI Desktop
3: Design a Data Model in Power Bl	 Introduction to data modeling Work with tables Dimensions and Hierarchies 	Lab 4: Design a Data Model in Power Bl
4: Create Model Calculations using DAX in Power Bl	 Introduction to DAX DAX context Advanced DAX 	Lab 5: DAX calculations in Power BI Desktop Lab 6: Create advanced DAX Calculations in Power BI Desktop
5: Create Reports in Power BI	 Design a report Enhance the report 	Lab 7: Design a Report in Power Bl Desktop Lab 8: Enhance a Report in Power Bl desktop
6: Perform Data Analysis in Power Bl	 Advanced Analytics Data Insights through AI visuals 	Lab 9: Perform Advanced analytics with Al visuals
7: Deploy and Maintain assets Power BI service	 Create and manage workspaces Distribute content Manage datasets Create dashboards 	Lab 10: Create a Power BI Dashboard
8: Row-level Security in Power Bl	1: Security in Power Bl	Lab 11: Enforce Row level security