PL-300T00 – Microsoft Power BI Data Analyst

Days: 3

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. 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.

Prerequisites:

Successful Data Analysts start this role with experience of working with data in the cloud.

Specifically,

- Understanding core data concepts
- Knowledge of working with relational data in the cloud.
- Knowledge of working with non-relational data in the cloud.
- Knowledge of data analysis and visualization concepts.

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.

Skills Gained:

- Ingest, clean, and transform data
- Model data for performance and scalability
- Design and create reports for data analysis

OUTLINE:

MODULE 1: GET STARTED WITH MICROSOFT DATA ANALYSIS

- This module explores the different roles in the data space, outlines the important roles and responsibilities of a Data Analysts, and then explores the landscape of the Power BI portfolio.

MODULE 2: PREPARE DATA IN POWER BI

- This module explores identifying and retrieving data from various data sources. You will also learn the options for connectivity and data storage and understand the difference and performance implications of connecting directly to data vs. importing it.

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MODULE 3: CLEAN, TRANSFORM, AND LOAD DATA IN POWER BI

- This module teaches you the process of profiling and understanding the condition of the data. They will learn how to identify anomalies, look at the size and shape of their data, and perform the proper data cleaning and transforming steps to prepare the data for loading into the model.

MODULE 4: DESIGN A DATA MODEL IN POWER BI

- This module teaches the fundamental concepts of designing and developing a data model for proper performance and scalability. This module will also help you understand and tackle many of the common data modeling issues, including relationships, security, and performance.

MODULE 5: CREATE MODEL CALCULATIONS USING DAX IN POWER BI

- This module introduces you to the world of DAX and its true power for enhancing a model. You will learn about aggregations and the concepts of Measures, calculated columns and tables, and Time Intelligence functions to solve calculation and data analysis problems.

MODULE 6: OPTIMIZE MODEL PERFORMANCE IN POWER BI

- In this module you are introduced to steps, processes, concepts, and data modeling best practices necessary to optimize a data model for enterprise-level performance.

MODULE 7: CREATE REPORTS IN POWER BI

- This module introduces you to the fundamental concepts and principles of designing and building a report, including selecting the correct visuals, designing a page layout, and applying basic but critical functionality. The important topic of designing for accessibility is also covered.

MODULE 8: CREATE DASHBOARDS IN POWER BI

- In this module you will learn how to tell a compelling story through the use of dashboards and the different navigation tools available to provide navigation. You will be introduced to features and functionality and how to enhance dashboards for usability and insights.

MODULE 9: ENHANCE REPORTS FOR USABILITY AND STORYTELLING IN POWER BI

- This module will teach you about paginated reports, including what they are how they fit into Power BI. You will then learn how to build and publish a report.

MODULE 10: PERFORM ADVANCED ANALYTICS IN POWER BI

- This module helps you apply additional features to enhance the report for analytical insights in the data, equipping you with the steps to use the report for actual data analysis. You will also perform advanced analytics using AI visuals on the report for even deeper and meaningful data insights.

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MODULE 11: MANAGE DATASETS IN POWER BI

- In this module you will learn the concepts of managing Power BI assets, including datasets and workspaces. You will also publish datasets to the Power BI service, then refresh and secure them.

MODULE 12: CREATE AND MANAGE WORKSPACES IN POWER BI

- This module will introduce you to Workspaces, including how to create and manage them. You will also learn how to share content, including reports and dashboards, and then learn how to distribute an App.