DP-600T00: Microsoft Fabric Analytics Engineer

Course Duration: 32 Hours (4 Days)

Course Overview

The DP-600: Microsoft Fabric Analytics Engineer course is designed to provide learners with comprehensive knowledge and hands-on experience in end-to-end analytics using Microsoft Fabric. The course covers a wide range of topics, from an introduction to analytics to administering Microsoft Fabric, data ingestion, and data management. Learners will gain practical skills in using Dataflows Gen2, Spark, Data Factory pipelines, and managing Lakehouse's within Microsoft Fabric. Throughout the modules, participants will learn about organizing data using the Medallion architecture design, working with Apache Spark, Delta Lake tables, and securing their data environments. The course also delves into data warehousing, teaching how to load, query, monitor, optimize, and model data warehouses. Moreover, it addresses scalability in Power BI, creating model relationships, performance optimization tools, and enforcing model security. This extensive training is crucial for those looking to excel in managing and analyzing data with Microsoft's analytics tools.

Audience profile

The DP-600 course offers comprehensive training in Microsoft Fabric analytics, catering to IT professionals in data roles, including:

- Data Engineers
- Data Analysts
- Data Architects
- Data Scientists
- Database Administrators
- Business Intelligence Professionals
- IT Managers overseeing data management teams
- Cloud Solutions Architects focusing on data services
- Data Security Analysts
- Professionals aiming to learn about data warehousing and lakehouse architecture
- Power BI Developers
- Anyone seeking to specialize in Microsoft's data analytics tools and services

Course Syllabus

Modules:

1. Introduction to end-to-end analytics using Microsoft Fabric
2. Administer Microsoft Fabric
3. Ingest Data with Dataflows Gen2 in Microsoft Fabric
4. Ingest Data with Spark and Microsoft Fabric Notebooks
5. Use Data Factory Pipelines in Microsoft Fabric
6. Get Started with Lakehouse's in Microsoft Fabric
7. Organize a Fabric Lakehouse Using Medallion Architecture Design
8. Use Apache Spark in Microsoft Fabric

9. Work with Delta Lake Tables in Microsoft Fabric
10. Secure Your Lakehouse (Content is in Admin Module)
11. Get Started with Data Warehouses in Microsoft Fabric
12. Load Data into a Fabric Data Warehouse
13. Query a Data Warehouse in Microsoft Fabric
14. Monitor and optimize a Microsoft Fabric Data Warehouse
15. Model a Data Warehouse in Microsoft Fabric
16. Secure Your Warehouse
17. Understand Scalability in Power BI
18. Create Power BI Model Relationships
19. Use Tools to Optimize Power BI Performance
20. Enforce Power BI Model Security