

DP-600T00: Microsoft Fabric Analytics Engineer

Duration: 4 Days

Course Description:

This course covers methods and practices for implementing and managing enterprise scale data analytics solutions using Microsoft Fabric. Students will learn how to use Fabric dataflows, pipelines, and notebooks to develop analytics assets such as semantic models, data warehouses, and lakehouses.

This course is designed for experienced data professionals skilled at data preparation, modeling, analysis, and visualization, such as the PL-300: Power BI Data Analyst certification.

Target Audience:

The primary audience for this course is data professionals with experience in data modeling and analytics. DP-600 is designed for professionals who want to use Microsoft Fabric to create and deploy enterprise-scale data analytics solutions. Learners should have prior experience with one of the following programming languages: Structured Query Language (SQL), Kusto Query Language (KQL), or Data Analysis Expressions (DAX).

Course Objectives:

Upon completing the course, participants should be able to:

- Establish and utilize the core components of the Microsoft Fabric platform, including Lakehouses, Spark, and tools for data ingestion and real-time intelligence.
- Implement, load, query, monitor, and secure a relational Data Warehouse within Microsoft Fabric for structured analytics.
- Design and optimize scalable semantic models by creating DAX calculations and managing Power BI assets for enterprise-level reporting.
- Administer, govern, and secure the Microsoft Fabric environment, including securing data access and utilizing tools like Purview for compliance.

Course Outlines:

Module 01: Get Started with Microsoft Fabric

The Azure AI Language service enables you to create intelligent apps and services that extract semantic information from text.

Topics Covered

- Introduction to end-to-end analytics using Microsoft Fabric
- Get started with lakehouses in Microsoft Fabric

- Use Apache Spark in Microsoft Fabric
- Work with Delta Lake tables in Microsoft Fabric
- Orchestrate processes and data movement with Microsoft Fabric
- Ingest Data with Dataflows Gen2 in Microsoft Fabric
- Get started with data warehouses in Microsoft Fabric
- Get started with Real-Time Intelligence in Microsoft Fabric
- Get started with data science in Microsoft Fabric
- Administer a Microsoft Fabric environment

Module 02: Implement a Data Warehouse with Microsoft Fabric

Explore the data warehousing process and learn how to load, monitor, secure, and query a warehouse in Microsoft Fabric.

Topics Covered

- Introduction to end-to-end analytics using Microsoft Fabric
- Get started with data warehouses in Microsoft Fabric
- Load data into a Microsoft Fabric data warehouse
- Query a data warehouse in Microsoft Fabric
- Monitor a Microsoft Fabric data warehouse
- Secure a Microsoft Fabric data warehouse

Module 03: Work with Semantic Models in Microsoft Fabric

Designing reports for enterprise scale requires more than just connecting to data. Understanding semantic models and strategies for scalability and lifecycle management are key to a successful enterprise implementation.

Topics Covered

- Create DAX calculations in semantic models
- Design scalable semantic models
- Optimize a model for performance in Power BI
- Create and manage Power BI assets
- Enforce Power BI model security

Module 04: Administer and Govern Microsoft Fabric

Microsoft Fabric Administration involves securing and governing data, administering the environment, and monitoring optimizing performance for efficient and compliant data management.

Topics Covered

- Administer a Microsoft Fabric environment
- Secure data access in Microsoft Fabric
- Secure a Microsoft Fabric data warehouse
- Govern data in Microsoft Fabric with Purview

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