DP-700T00: Microsoft Fabric Data Engineer

Course Code: DP-700T00
Duration: 4 days
Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

This course covers methods and practices to implement data engineering solutions by using Microsoft Fabric. Students will learn how to design and develop effective data loading patterns, data architectures, and orchestration processes. Objectives for this course include ingesting and transforming data and securing, managing, and monitoring data engineering solutions. This course is designed for experienced data professionals skilled at data integration and orchestration, such as those with the DP-203: Azure Data Engineer certification.

SKILLS COVERED

- Ingest data with Microsoft Fabric
- Implement a Lakehouse with Microsoft Fabric
- Implement Real-Time Intelligence with Microsoft Fabric
- Implement a data warehouse with Microsoft Fabric
- Manage a Microsoft Fabric environment

WHO SHOULD ATTEND?

- This audience for this course is data professionals with experience in data extraction, transformation, and loading. DP-700 is designed for professionals who need to create and deploy data engineering solutions using Microsoft Fabric for enterprise-scale data analytics. Learners should also have experience at manipulating and transforming data with one of the following programming languages: Structured Query Language (SQL), PySpark, or Kusto Query Language (KQL)

PREREQUISITES

There are no prerequisites required to attend this course.

MODULES

Module 1: Ingest data with Microsoft Fabric

Explore how Microsoft Fabric enables you to ingest and orchestrate data from various sources (such as files, databases, or web services) through dataflows, notebooks, and pipelines.

Prerequisites

Familiarity with Microsoft Fabric: Getting started with Fabric

- Ingest Data with Dataflows Gen2 in Microsoft Fabric
- Orchestrate processes and data movement with Microsoft Fabric
- Use Apache Spark in Microsoft Fabric
- Get started with Real-Time Intelligence in Microsoft Fabric
- Use real-time eventstreams in Microsoft Fabric
- Work with real-time data in a Microsoft Fabric eventhouse

Module 2: Implement a Lakehouse with Microsoft Fabric

This learning path introduces the foundational components of implementing a data lakehouse with Microsoft Fabric.

Prerequisites

You should be familiar with basic data concepts and terminology.

- 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
- Ingest Data with Dataflows Gen2 in Microsoft Fabric
- Orchestrate processes and data movement with Microsoft Fabric
- Organize a Fabric lakehouse using medallion architecture design

Module 3: Implement Real-Time Intelligence with Microsoft Fabric

Real-time intelligence in Microsoft Fabric enables analysis of streaming events in real or near-real time.

Prerequisites

The student should be familiar with Microsoft Fabric and SQL.

- Get started with Real-Time Intelligence in Microsoft Fabric
- Use real-time eventstreams in Microsoft Fabric
- Work with real-time data in a Microsoft Fabric event house
- Create Real-Time Dashboards with Microsoft Fabric

Module 4: 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.

Prerequisites

You should be familiar with basic data concepts and terminology.

- 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 5: Manage a Microsoft Fabric environment

Microsoft Fabric is a Software-as-a-Service platform for data analytics. Learn how to manage your environment through Continuous Integration/Continuous Deployment (CI/CD), monitoring, and security.

Prerequisites

Before starting this learning path, you should have experience with Microsoft Fabric or Power BI. You should also have a basic understanding of data engineering and management concepts.

- Implement continuous integration and continuous delivery (CI/CD) in Microsoft Fabric
- Monitor activities in Microsoft Fabric

- Secure data access in Microsoft Fabric
- Administer a Microsoft Fabric environment

END OF PAGE