DP-700: Microsoft Fabric Data Engineer

Microsoft - Data & AI

- **Nível:** Intermédio
- **Duração:** 28h

Sobre o curso

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.

Destinatários

- 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.
- The audience for this course is data professionals with experience in data extraction, transformation, and loading.
- This course is designed for professionals who need to create and deploy data engineering solutions using Microsoft Fabric for enterprise-scale data analytics.

Condições

- Ingesting and transforming data and securing;
- Managing, and monitoring data engineering solutions.

Pré-requisitos

- Familiarity with Microsoft Fabric.
- 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).

Programa

- 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

Ingest data with Microsoft Fabric

This module 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.

- Ingest Data with Dataflows Gen2 in Microsoft Fabric
- Orchestrate processes and data movement with 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

Implement a Lakehouse with Microsoft Fabric

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

- 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

Implement Real-Time Intelligence with Microsoft Fabric

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

- 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
- Create Real-Time Dashboards with Microsoft Fabric

Implement a data warehouse with Microsoft Fabric

This module explore the data warehousing process and learn how to load, monitor, secure, and query a warehouse in 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

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.

- 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