Implementing a Lakehouse with Microsoft Fabric (DP-601T00)

Duration: 1 day
Audience: Professionnel TI|Analyste de données

Who is this training for?

- Data Analyst
- Data Engineer
- Data Scientist

Training objectives

This course is primarily aimed at data professionals who are familiar with data modeling, extraction, and analysis. It is designed for professionals who want to gain knowledge about the Lakehouse architecture, the Microsoft Fabric platform, and how to implement end-to-end analytics using these technologies.

Summary

Applied Skills training courses are designed to validate specific skills by being oriented towards real-world scenarios. They offer a targeted alternative to traditional role-based certifications, with a focus on applying technical skills in real-world business situations. This course is designed to develop your basic data engineering skills on Microsoft Fabric, with an emphasis on the concept of the lakehouse. This course explores the powerful capabilities of Apache Spark for distributed data processing, as well as the essential techniques for efficiently managing, versioning, and relieving data using Delta Lake tables. This course also explores data ingestion and orchestration using 2nd generation data flows and Data Factory pipelines. This course includes a combination of lessons and hands-on exercises that will prepare you for using lakehouses in Microsoft Fabric.

Course outline

- Introducing end-to-end analytics using Microsoft Fabric
- Getting started with lakehouses in Microsoft Fabric
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Using Apache Spark in Microsoft Fabric

- Using Delta Lake tables in Microsoft Fabric
- Ingesting data with Gen2 dataflows in Microsoft Fabric
- Using Data Factory pipelines in Microsoft Fabric

Approach and methodology

Practical and structured approach combining focused theory and guided workshops. Participants gradually implement a lakehouse with Microsoft Fabric through real-world exercises inspired by professional scenarios, promoting immediate application of learning. They learn how to ingest, transform, and analyze data by unifying data engineering and data analytics capabilities within a single platform. Led by a Microsoft certified trainer, the training focuses on interactivity and the development of directly transferable technical skills to design modern analytical solutions in a professional context.

Prerequisites

You need to be familiar with the basic concepts and terminology of the data.

Recommendations

- Basics in data management and transformation
- Knowledge of data modeling concepts (tables, relationships)
- Notions of SQL Understanding of cloud and analytical environments
- Familiarity with data concepts (ETL/ELT, warehouse, lakehouse)

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