

Implement a Lakehouse with Microsoft Fabric

Courses Code: DP-601T00

Duration: 1 Day

Delivery Mode: Instructor-led Training (ILT) | Virtual Instructor led Training (VILT)

Overview

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

Skills Covered

- Discover how Microsoft Fabric supports end-to-end analytics.
- Get started with lakehouses: create a lakehouse, ingest data, query files and tables.
- Use Apache Spark in Microsoft Fabric for large-scale data analytics.
- Work with Delta Lake tables in Microsoft Fabric: create, manage, optimize.
- Ingest data using Dataflows Gen2 in Microsoft Fabric.
- Orchestrate data movement and transformation with pipelines in Microsoft Fabric.
- Organize a Fabric lakehouse using the medallion architecture (Bronze/Silver/Gold layers).

Who Should Attend

This learning path is designed for professionals in the roles of Data Analyst, Data Engineer, and Data Scientist who want to work with lake house architectures using Microsoft Fabric.

Prerequisites

You should be familiar with basic data concepts and terminology.

Course Modules

1. Introduction to end-to-end analytics using Microsoft Fabric

Discover how Microsoft Fabric can meet your enterprise's analytics needs in one platform. Learn about Microsoft Fabric, how it works, and identify how you can use it for your analytics needs.

2. Get started with lake houses in Microsoft Fabric

Lake houses merge data lake storage flexibility with data warehouse analytics. Microsoft Fabric offers a lake house solution for comprehensive analytics on a single SaaS platform.

3. Use Apache Spark in Microsoft Fabric

Apache Spark is a core technology for large-scale data analytics. Microsoft Fabric provides support for Spark clusters, enabling you to analyze and process data in a Lakehouse at scale.



4. Work with Delta Lake tables in Microsoft Fabric

Tables in a Microsoft Fabric lakehouse are based on the Delta Lake storage format commonly used in Apache Spark. By using the enhanced capabilities of delta tables, you can create advanced analytics solutions.

5. Ingest Data with Dataflows Gen2 in Microsoft Fabric

Data ingestion is crucial in analytics. Microsoft Fabric's Data Factory offers Dataflows (Gen2) for visually creating multi-step data ingestion and transformation using Power Query Online.

6. Orchestrate processes and data movement with Microsoft Fabric

Microsoft Fabric includes Data Factory capabilities, including the ability to create pipelines that orchestrate data ingestion and transformation tasks.

7. Organize a Fabric lakehouse using medallion architecture design

Explore the potential of the medallion architecture design in Microsoft Fabric. Organize and transform your data across Bronze, Silver, and Gold layers of a lakehouse for optimized analytics.

Ref: <https://trainocate.com/courses/microsoft/dp-600t00-microsoft-fabric-analytics-engineer-training>

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