
Implementing a Lakehouse with Microsoft Fabric (DP-601)

Duration: 1 Day **Course Code: M-DP601**

Overview:

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

Objectives:

- 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
 - Use Data Factory pipelines in Microsoft Fabric
 - Organize a Fabric lakehouse using medallion architecture design
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Prerequisites:

- You should be familiar with basic data concepts and terminology.
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Content:

Module 1: Introduction to end-to-end analytics using Microsoft Fabric

- Describe end-to-end analytics in Microsoft Fabric

Module 2: Get started with lakehouses in Microsoft Fabric

- Describe core features and capabilities of lakehouses in Microsoft Fabric
- Create a lakehouse
- Ingest data into files and tables in a lakehouse
- Query lakehouse tables with SQL

Module 3: Use Apache Spark in Microsoft Fabric

- Configure Spark in a Microsoft Fabric workspace
- Identify suitable scenarios for Spark notebooks and Spark jobs
- Use Spark dataframes to analyze and transform data
- Use Spark SQL to query data in tables and views
- Visualize data in a Spark notebook

Module 4: Work with Delta Lake tables in Microsoft Fabric

- Understand Delta Lake and delta tables in Microsoft Fabric
- Create and manage delta tables using Spark
- Use Spark to query and transform data in delta tables
- Use delta tables with Spark structured streaming

Module 5: Ingest Data with Dataflows Gen2 in Microsoft Fabric

- Describe Dataflow capabilities in Microsoft Fabric
- Create Dataflow solutions to ingest and transform data
- Include a Dataflow in a pipeline

Module 6: Use Data Factory pipelines in Microsoft Fabric

- Describe pipeline capabilities in Microsoft Fabric
- Use the Copy Data activity in a pipeline
- Create pipelines based on predefined templates
- Run and monitor pipelines

Module 7: Organize a Fabric lakehouse using medallion architecture design

- Describe the principles of using the medallion architecture in data management.
- Apply the medallion architecture framework within the Microsoft Fabric environment.
- Analyze data stored in the lakehouse using DirectLake in Power BI.
- Describe best practices for ensuring the security and governance of data stored in the medallion architecture.

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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