

DP - 601 : Implement a Lakehouse with Microsoft Fabric

Course Outline

Module 1: Introduction to End-to-End Analytics Using Microsoft Fabric

- Overview of end-to-end analytics capabilities within Microsoft Fabric

Module 2: Get Started with Lakehouses in Microsoft Fabric

- Core features and capabilities of lakehouses in Microsoft Fabric
- Creating and managing lakehouses
- Ingesting data into files and tables within a lakehouse
- Querying lakehouse tables using SQL

Module 3: Use Apache Spark in Microsoft Fabric

- Configuring Spark within a Microsoft Fabric workspace
- Identifying scenarios for Spark notebooks and Spark jobs
- Using Spark dataframes for data analysis and transformation
- Querying data with Spark SQL
- Visualizing data within Spark notebooks

Module 4: Work with Delta Lake Tables in Microsoft Fabric

- Understanding Delta Lake and delta tables
- Creating and managing delta tables using Spark
- Querying and transforming data in delta tables with Spark
- Utilizing delta tables with Spark structured streaming

Module 5: Ingest Data with Dataflows Gen2 in Microsoft Fabric

- Capabilities of Dataflows in Microsoft Fabric
- Creating Dataflow solutions for data ingestion and transformation
- Incorporating Dataflows into pipelines

Module 6: Use Data Factory Pipelines in Microsoft Fabric

- Capabilities of pipelines in Microsoft Fabric
- Using the Copy Data activity within pipelines
- Creating and running pipelines using predefined templates
- Monitoring pipeline execution

Module 7: Organize a Fabric Lakehouse Using Medallion Architecture Design

- Principles of medallion architecture in data management
- Implementing the medallion architecture framework in Microsoft Fabric
- Analyzing lakehouse data using DirectLake in Power BI
- Best practices for data security and governance within the medallion architecture