Implementing Data Engineering Solutions Using Microsoft Fabric Training

Duration: **4 Day**

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Overview

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. Objectives for this course include ingesting and transforming data and securing, managing, and monitoring data engineering solutions.

Prerequisites

While there are no required prerequisites for taking this course, it is recommended that students have a foundational knowledge of core data concepts and how they're implemented using Microsoft data services. For more information see Azure Data Fundamentals.

These following technologies and techniques will help delegates engage effectively with the course material, navigate the tools and technologies in Microsoft Fabric, and apply the learnings to real-world scenarios. These are optional but will lead to a better understating of the course.

- Familiarity with data lifecycle processes (ingestion, transformation, storage, and visualization).
- Experience working with relational databases and querying using SQL.
- Awareness of database schema concepts (e.g., tables, joins, and relationships).
- Familiarity with Extract, Transform, Load (ETL) workflows.
- Understanding the role of ETL tools in data integration.
- Awareness of cloud-based data solutions, preferably Microsoft Azure or equivalent.
- Basic knowledge of data lake and data warehouse concepts.
- Basic experience with a programming language such as Python or R (helpful for data transformation and Apache Spark modules).
- Awareness of access control mechanisms in data platforms.
- Ability to interpret business requirements and translate them into analytics use cases.

Target Audience

This audience for this course is data professionals with experience in data extraction, transformation, and loading. DP-700 is designed for professionals who need to create and deploy data engineering solutions using Microsoft Fabric for enterprise-scale data analytics. 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).

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What You Will Learn

This course, aligned with Microsoft's DP-700 certification, provides comprehensive training on implementing data engineering solutions using Microsoft Fabric. Participants will learn to design data architectures, develop efficient data loading patterns, and orchestrate data processes. The course focuses on key areas such as data ingestion, transformation, storage, security, and monitoring, using technologies including Apache Spark, Delta Lake, Dataflows Gen2, and Fabric pipelines.

Learners will gain practical skills in real-time data processing, medallion architecture design, and querying data warehouses, along with expertise in eventstreams, KQL, and CI/CD implementation. Additionally, the course covers essential aspects of data governance, security (including row-level and column-level security), and workspace administration in Fabric environments.

Designed for experienced data professionals skilled in data extraction, transformation, and loading (ETL), the course is particularly beneficial for those familiar with SQL, PySpark, or Kusto Query Language (KQL) and cloud-based solutions like Azure. Recommended prerequisites include knowledge of relational databases, ETL workflows, data lakes, and access control mechanisms. By the end, participants will be equipped to create, deploy, and manage enterprise-scale data analytics solutions within Microsoft Fabric for real-world applications.