Implement data engineering solutions using Microsoft Fabric (DP-700)

Duration: 4 Days **Course Code: M-DP700T00**

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. This course is designed for data professionals with some data integration and orchestration experience.

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).

Objectives:

- Ingest data with Microsoft Fabric.
- Implement a Lakehouse with Microsoft Fabric
- Implement Real-Time Intelligence with Microsoft Fabric
- Implement a data warehouse with Microsoft Fabric
- Manage a Microsoft Fabric environment

Prerequisites:

- This course is designed for experienced data professionals skilled at data integration and orchestration, such as those with the DP-203: Azure Data Engineer certification.

Testing and Certification

- Microsoft Certified: Fabric Data Engineer Associate

Content:

Module 1: Ingest data with Microsoft Fabric.

- Ingest Data with Dataflows Gen2 in Microsoft Fabric
- Orchestrate processes and data movement with Microsoft Fabric
- Use Apache Spark in Microsoft Fabric
- Work with real-time data in a Microsoft Fabric eventhouse

Module 2: Implement a Lakehouse with Microsoft Fabric

- 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
- Orchestrate processes and data movement with Microsoft Fabric
- Organize a Fabric lakehouse using medallion architecture design

Module 3: Implement Real-Time Intelligence with Microsoft Fabric

- Get started with Real-Time Intelligence in Microsoft Fabric
- Use eventstreams in Microsoft Fabric
- Work with real-time data in an eventhouse in Microsoft Fabric
- Create Real-Time Dashboards with Microsoft Fabric
- Use Activator in Microsoft Fabric

Module 4: mplement a data warehouse with Microsoft Fabric

- Introduction to end-to-end analytics using Microsoft Fabric
- Get started with data warehouses in Microsoft Fabric
- Load data into a Microsoft Fabric data warehouse
- Query a data warehouse in Microsoft Fabric
- Monitor a Microsoft Fabric data warehouse
- Secure a Microsoft Fabric data warehouse

Module 5: Manage a Microsoft Fabric environment

- Implement continuous integration and continuous delivery (CI/CD) in Microsoft Fabric
- Monitor activities in Microsoft Fabric
- Secure data access in Microsoft Fabric
- Administer a Microsoft Fabric environment

Module 6: Use Activator in Microsoft Fabric

- Configure Activator for your data
- Create rules in Activator
- Configure actions in Activator

Exercise - Use Activator in Fabric

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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