

DP-602T00: Implement a Data Warehouse with Microsoft Fabric

Course Description

This course is designed to build your foundational skills in data engineering on Microsoft Fabric, focusing on data warehouse concepts. This course explores how to load, monitor and query a data warehouse in Microsoft Fabric using tools, and transactional T-SQL capabilities for easy data management and analysis. This course includes a combination of lectures and hands-on exercises that will prepare you to work with data warehouses in Microsoft Fabric.

Course Duration

1 day

Prerequisites

- Basic understanding of data concepts and terminology.

Course Outline

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

- Explore end-to-end analytics with Microsoft Fabric
- Explore data teams and Microsoft Fabric
- Enable and use Microsoft Fabric
- Module assessment

2 - Get started with data warehouses in Microsoft Fabric

- Understand data warehouses
- Understand data warehouses in Fabric
- Query and transform data
- Model data in a warehouse
- Secure and monitor a warehouse
- Module assessment

3 - Load data into a Microsoft Fabric data warehouse

- Explore data load strategies
- Use data pipelines to load a warehouse
- Load data using T-SQL
- Load and transform data with Dataflow Gen2
- Module assessment

4 - Query a data warehouse in Microsoft Fabric

- Query data
- Use the SQL query editor
- Explore the visual query editor
- Use client tools to query a warehouse
- Module assessment

5 - Get started with Copilot in Microsoft Fabric for Data Warehouse

- Use Copilot code completion in Microsoft Fabric's Data Warehouse
- Use Copilot chat in Microsoft Fabric's Data Warehouse

- Use Copilot quick actions in Microsoft Fabric's Data Warehouse
- Review best practices using Copilot in Microsoft Fabric's Data Warehouse
- Module assessment

6 - Monitor a Microsoft Fabric data warehouse

- Monitor capacity metrics
- Monitor current activity
- Monitor queries
- Module assessment

7 - Secure a Microsoft Fabric data warehouse

- Explore dynamic data masking
- Implement row-level security
- Implement column-level security
- Configure SQL granular permissions using T-SQL
- Module assessment

Who Should Attend

The primary audience for this course is data professionals who are familiar with data modeling, extraction, and analytics. It is designed for professionals who are interested in gaining knowledge about data warehouse in Microsoft Fabric platform, and how to enable integrated analytics using these technologies.