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DP-900T00 Microsoft Azure Data Fundamentals

Summary

Length: 8 hours Level: Foundational

In this course, students will gain foundational knowledge of core data concepts and related Microsoft Azure data services. Students will learn about core data concepts such as relational, non-relational, big data, and analytics, and build their foundational knowledge of cloud data services within Microsoft Azure. Students will explore fundamental relational data concepts and relational database services in Azure. They will explore Azure storage for non-relational data and the fundamentals of Azure Cosmos DB. Students will learn about modern data warehousing, real-time analytics, and data visualization. This course may earn a Credly Badge.

Learning Objectives

After completing this course, students will be able to:
Describe core data concepts
Identify considerations for relational data on Azure
Describe considerations for working with non-relational data on Azure
Describe an analytics workload on Azure

Course Outline

1. **Explore core data concepts**

    Explore core data concepts
    Explore roles and responsiblities in the world of data
    Describe concepts of relational data
    Explore concepts of non-relational data
    Explore concepts of data analytics

2. **Explore relational data in Azure**

    Explore relational data offerings in Azure
    Explore provisioning and deploying relational database offerings in Azure
    Query relational data in Azure

3. **Explore non-relational data in Azure**

    Explore non-relational data offerings in Azure
    Explore provisioning and deploying non-relational data services on Azure
    Manage non-relational data stores in Azure

4. **Explore modern data warehouse analytics in Azure**

    Examine components of a modern data warehouse
    Explore data ingestion in Azure
    Explore data storage and processing in Azure
    Get started building with Power BI

Audience

The audience for this course is individuals who want to learn the fundamentals of database concepts in a cloud environment, get basic skilling in cloud data services, and build their foundational knowledge of cloud data services within Microsoft Azure.

Prerequisites

Prerequisite certification is not required before taking this course. Successful Azure Data Fundamentals students start with some basic awareness of computing and Internet concepts, and an interest in extracting insights from data. Specifically: Experience using a web browser, such as Microsoft Edge. Familiarity with basic data-related concepts, such as working with tables of data in a spreadsheet and visualizing data using charts. A willingness to learn through hands-on exploration.