Microsoft Azure Data Fundamentals

Duration: 1 Day   Course Code: M-DP900   Delivery Method: Virtual Learning

Overview:

New & Exclusive - 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 large-scale data warehousing, real-time analytics, and data visualization.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target 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.

Objectives:

- Students will learn to,
- Explore core data concepts
- Explore data roles and services
- Explore fundamental relational data concepts
- Explore relational database services in Azure

- Explore Azure Storage for non-relational data
- Explore fundamentals of Azure Cosmos DB
- Explore fundamentals of large-scale data analytics
- Explore fundamentals of real-time analytics
- Explore fundamentals of data visualization

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.

Content:

Module 1: Explore core data concepts

- Identify common data formats
- Describe options for storing data in files
- Describe options for storing data in databases
- Describe characteristics of transactional data processing solutions
- Describe characteristics of analytical data processing solutions

Module 2: Explore data roles and services

- Identify common data professional roles
- Identify common cloud services used by data professionals

Module 3: Explore fundamental relational data concepts

- Identify characteristics of relational data
- Define normalization
- Identify types of SQL statement
- Identify common relational database objects

Module 4: Explore relational database services in Azure

- Identify options for Azure SQL services
- Identify options for open-source databases in Azure
- Provision a database service on Azure

Module 5: Explore Azure Storage for non-relational data

- Describe features and capabilities of Azure blob storage
- Describe features and capabilities of Azure Data Lake Gen2
- Describe features and capabilities of Azure file storage
- Describe features and capabilities of Azure table storage
- Provision and use an Azure Storage account

Module 6: Explore fundamentals of Azure Cosmos DB

- Describe key features and capabilities of Azure Cosmos DB
- Identify the APIs supported in Azure Cosmos DB
- Provision and use an Azure Cosmos DB instance

Module 7: Explore fundamentals of large-scale analytics

- Identify common elements of a data analytics solution
- Describe key features for data ingestion pipelines
- Identify common types of analytical data store and related Azure services
- Describe platform-as-a-service (PaaS) data analytics solutions in Azure
- Provision Azure Synapse Analytics and use it to ingest, process, and query data
- Describe features of Microsoft Fabric - a software-as-a-service (SaaS) solution for data analytics
- Use Microsoft Fabric to ingest and analyze data

Module 8: Explore fundamentals of real-time analytics

- Compare batch and stream processing
- Describe common elements of streaming data solutions
- Describe features and capabilities of Azure Stream Analytics
- Describe features and capabilities of Spark Structured Streaming on Azure
- Describe features and capabilities of realtime analytics in Microsoft Fabric

Module 9: Explore fundamentals of data visualization

- Describe a high-level process for creating reporting solutions with Microsoft Power BI
- Describe core principles of analytical data modeling
- Identify common types of data visualization and their uses

Create an interactive report with Power BI Desktop

Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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