Introduction to Microsoft Azure Data (DP-900) Training

Duration: **1 Day**

BILGINÇ IT Academy
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Overview

This course provides participants with a foundation in data and database concepts within a cloud environment and introduces the core data services available in Microsoft Azure.

Throughout the programme, learners explore key data concepts including relational data, non-relational data, big data, and analytics, and examine how these approaches are implemented using Azure services. The course also introduces common roles, responsibilities, and tasks within the data profession.

Participants explore relational data services in Azure, including the provisioning, deployment, and querying of relational databases. The programme also covers non-relational data services and the use of non-relational data stores within Azure.

The analytics section introduces modern data warehouse concepts, data ingestion, storage, and processing options. Learners explore services such as Azure Synapse Analytics, Azure Databricks, and Azure HDInsight. The course also introduces Microsoft Power BI, including its main components and how they work together.

Accessing Microsoft Learn and Course Materials

A **Microsoft Learn account** can be used to access official Microsoft learning materials.

Through Microsoft Learn, participants may be able to:

- Access official course content,
- Register course completion,
- Receive an achievement badge where applicable.

Any required registration or access codes can be provided during the course.

Prerequisites

No prior certification is required before attending this course.

Participants will benefit from:

- Basic familiarity with computers and Internet concepts,
- Experience using a web browser such as Microsoft Edge,
- Basic experience working with tabular data in spreadsheets,
- Familiarity with simple charts and data visualisation,
- A willingness to learn through practical exploration.

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Who Should Attend

This course is particularly suitable for:

- Individuals who want to understand cloud-based data concepts,
- Learners beginning their journey with Microsoft Azure data services,
- Aspiring Data Engineers,
- Aspiring Database Administrators,
- Professionals seeking foundational knowledge aligned with Azure Data Fundamentals.

What You Will Learn

By the end of this course, participants will be able to:

- Describe core data concepts in an Azure context,
- Explain relational data concepts and relational data services in Azure,
- Explain non-relational data concepts and Azure non-relational services,
- Identify the main components of a modern data warehouse,
- Recognise key Azure services used for data processing and analytics,
- Explain the purpose and main building blocks of Microsoft Power BI.

Outline

Module 1 – Explore Core Data Concepts

This module introduces the fundamental data concepts used in cloud environments and provides an overview of Microsoft Azure data services.

Topics

- Core data concepts
- Data roles and responsibilities
- Relational Data concepts
- Non-Relational Data concepts
- Big Data fundamentals
- Data Analytics concepts
- Overview of Azure data services

By the End of This Module, Participants Will Be Able To

- Demonstrate foundational knowledge of cloud data services in Azure,
- Identify and describe Relational, Non-Relational, Big Data, and Analytics concepts,
- Explain how these data technologies are implemented with Microsoft Azure.

Module 2 – Explore Relational Data in Azure

This module focuses on relational data services in Azure and how relational databases can be provisioned, deployed, and queried.

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Topics

- Azure Relational Data offerings
- Relational database services
- Relational database provisioning
- Database deployment
- Querying relational data in Azure
- Using cloud data solutions for relational queries

By the End of This Module, Participants Will Be Able To

- Describe relational data offerings available in Azure,
- Explain how relational databases are provisioned and deployed,
- Query relational data through Azure cloud data solutions.

Module 3 – Explore Non-Relational Data in Azure

This module introduces non-relational data models and the Azure services used to store and manage non-relational information.

Topics

- Azure Non-Relational Data offerings
- Non-relational database options
- Provisioning non-relational services
- Deployment approaches
- Azure Non-Relational Data Stores
- Managing non-relational data stores

By the End of This Module, Participants Will Be Able To

- Describe non-relational data offerings in Azure,
- Explain how non-relational databases and services are provisioned and deployed,
- Describe the main types of non-relational data stores available in Azure.

Module 4 – Explore Modern Data Warehouse Analytics in Azure

This module explores how modern analytics solutions can be built using Azure services.

Topics

- Components of a Modern Data Warehouse
- Azure Data Ingestion
- Data Storage options
- Data Processing approaches
- Azure Synapse Analytics
- Azure Databricks
- Azure HDInsight
- Introduction to Microsoft Power BI
- Power BI building blocks
- How Power BI components work together

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By the End of This Module, Participants Will Be Able To

- Describe processing options used to build analytics solutions in Azure,
- Explain the purpose of Azure Synapse Analytics, Azure Databricks, and Azure HDInsight,
- Describe Microsoft Power BI and explain how its main building blocks work together.