Data4Every1

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MS-DP900T00: INTRODUCTION TO MICROSOFT AZURE DATA

DURATION	LEVEL	TECHNOLOGY	DELIVERY METHOD	CERTIFICATION
1 Day	Beginner	Azure	Instructor-led	DP-900 Exam

INTRODUCTION

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.

AUDIENCE PROFILE

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

Before starting this learning path, you should have a fundamental understanding of core data concepts.

COURSE OBJECTIVES

After completing this course, students will be able to:

- Describe core data concepts such as relational, non-relational, big data, and analytics
- Identify Azure data services for relational and non-relational data.
- Explain analytics workloads and services in Azure, including batch and real-time processing.
- Understand data visualization concepts and tools like Power BI.
- Recognize roles and responsibilities in data-related job functions.

COURSE CONTENT

Module 1: Introduction to Microsoft Azure Data core data concepts

Data is the foundation on which all software is built. By learning about common data formats, workloads, roles, and services, you can prepare yourself for a career as a data professional.

Module 1.1: Explore core data concepts

Data powers the digital transformation that is sweeping across organizations and society in general. But what is "data", and how is it represented and used?

Module 1.2: Explore data roles and services

Data professionals perform distinct roles in building and managing software solutions, and work with multiple technologies and services to do so.

Module 2: Introduction to Microsoft Azure Data relational data in Azure

Relational data is at the heart of most business applications and is the foundation on which many enterprise data solutions are built. Microsoft Azure provides services for managing relational databases, enabling you to build new applications or migrate existing ones to the cloud.

Module 2.1: Explore fundamental relational data concepts

Relational database systems are a common way to store and manage transactional and analytical data in organizations of any size around the world.

Module 2.2: Explore relational database services in Azure

Microsoft Azure provides multiple services for relational databases. You can choose the relational database management system that's best for your needs, and host relational data in the cloud.

Module 3: Introduction to Microsoft Azure Data non-relational data in Azure

Non-relational data is a common way for applications to store and query data without the overhead of a relational schema. In Microsoft Azure, you can use Azure Storage and Azure Cosmos DB to build highly scalable, secure data stores for non-relational data.

Module 3.1: Explore Azure Storage for non-relational data

Azure Storage is a core service in Microsoft Azure that is commonly used to store non-relational data.

Module 3.2: Explore fundamentals of Azure Cosmos DB

Azure Cosmos DB provides a highly scalable store for non-relational data.

Module 4: Introduction to Microsoft Azure Data analytics in Azure

The phenomenal growth in data in recent years is fuelling digital transformation of businesses and other organizations by empowering fast and informed decision making through data analytics. Microsoft Azure provides multiple services that you can combine to build large-scale analytics solutions that leverage the latest technologies and techniques for data ingestion, storage, modelling, and visualization.

Module 4.1: Explore fundamentals of large-scale analytics

Organizations use analytics platforms to build large scale data analytics solutions that generate insights and drive success. Microsoft provides multiple technologies that you can combine to build a large-scale data analytics solution.

Module 4.2: Explore fundamentals of real-time analytics

Learn about the basics of stream processing, and the services in Microsoft Azure that you can use to implement real-time analytics solutions.

Module 4.3: Explore fundamentals of data visualization

Learn the fundamental principles of analytical data modelling and data visualization, using Microsoft Power BI as a platform to explore these principles in action.

ASSOCIATED CERTIFICATIONS & EXAM

This course will prepare delegates to write the AI-900 Azure AI Fundamentals Exam.