



DP-900: Microsoft Azure Data Fundamentals

Exam Overview

In this course, 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.

Audience Profile

Students will explore fundamental relational data concepts in Azure & Fabric. Students will learn about large-scale data warehousing, real-time analytics, and data visualization.

What the Exam Covers

The exam measures your understanding across core domains:

1. Core Data Concepts
2. Relational Data in Azure
3. Non-Relational Data in Azure
4. Analytics Workloads in Microsoft Cloud

Assessed on this exam

- ✓ Describe core data concepts (25–30%)
- ✓ Identify considerations for relational data on Azure (20–25%)
- ✓ Describe considerations for working with non-relational data on Azure (15–20%)
- ✓ Describe an analytics workload on Azure (25–30%)

Training Modes

- ✓ LIVE Online Training
- ✓ Self-Paced Videos
- ✓ Inhouse Classroom Training

Who Should Attend?

This DP-900 Azure Data Fundamentals training is ideal for:

- Students and fresh graduates exploring cloud data technologies
- SQL Developers and Database Administrators
- Aspiring Data Engineers and Data Analysts
- IT professionals transitioning to Microsoft Azure
- Beginners preparing for Microsoft DP-900 certification

Prerequisites:

No prior cloud experience is required. Basic computer and database knowledge is helpful.

Detailed Course Content

Module 1: Core Data Concepts (25–30%)

Ch 1: Introduction to Data

- ✓ Understanding data
- ✓ Importance of data in IT systems
- ✓ Introduction to databases
- ✓ Data Management Systems
- ✓ On-premises versus cloud databases
- ✓ Data Stack Job Roles

Ch 2: Microsoft Azure Fundamentals

- ✓ Cloud service models
- ✓ IaaS, PaaS and SaaS
- ✓ Azure Storage Services
- ✓ Azure Cloud Resources
- ✓ Database & File Storage
- ✓ Data Processing Concepts
- ✓ Azure Subscription

Ch 3: Azure Data Services - 1

- ✓ Azure SQL
- ✓ Azure SQL Database
- ✓ Azure SQL Managed Instance
- ✓ Azure SQL VM
- ✓ Open-source databases in Azure
- ✓ Azure Cosmos DB
- ✓ Azure Storage

Ch 4: Azure Data Services - 2

- ✓ Azure Data Factory
- ✓ Azure Databricks
- ✓ Azure Stream Analytics
- ✓ Azure Data Explorer
- ✓ Microsoft Purview
- ✓ Microsoft Foundry

Ch 5: Database Concepts

- ✓ Introduction to data workloads

- ✓ Understanding transactional workloads
- ✓ Online Transaction Processing (OLTP)
- ✓ ACID properties in transactional databases
- ✓ Understanding analytical workloads
- ✓ Online Analytical Processing (OLAP)
- ✓ Differences between OLTP and OLAP systems

Module 2: Identify considerations for relational data on Azure (20–25%)

Ch 6: Azure SQL Server

- ✓ Azure SQL Services
- ✓ Azure SQL Server Deployments
- ✓ Azure Logical Server
- ✓ Azure SQL Database

Ch 7: Azure SQL Concepts - 1

- ✓ Data Definition Language (DDL)
- ✓ Data Modification Language (DML)
- ✓ Data Query Language (DQL)
- ✓ Data Control Language (DCL)

Ch 8: Azure SQL Concepts - 2

- ✓ Schemas & Realtime Usage
- ✓ Relational Data Storage
- ✓ Primary Key, Foreign Key
- ✓ Normalization

Ch 9: Azure SQL Concepts - 3

- ✓ Object Storage Concepts
- ✓ Database Objects
- ✓ Views, Procedures
- ✓ Functions, Indexes
- ✓ Logins & Users
- ✓ GRANT, DENY
- ✓ WITH GRANT, REVOKE

Ch 10: Azure SQL DB Licensing

- ✓ Single Database
- ✓ Per Database Licensing
- ✓ DTU Licensing
- ✓ VCore Licensing
- ✓ Hyperscale Concepts
- ✓ Elastic Pools

Ch 11: Azure Virtual Machines

- ✓ Azure VM Deployments
- ✓ Azure VM Configurations
- ✓ Processor, Memory
- ✓ Logical Server Vs VM
- ✓ VM Connections

Ch 12: Azure Managed Instance

- ✓ Azure MI Concepts
- ✓ Managed Instance Config
- ✓ Managed Instance Connections
- ✓ Processor, Memory
- ✓ Logical Server Vs MI
- ✓ Virtual Machine Vs MI

Module 3: Non-Relational Data on Azure (15–20%)

Ch 13: Azure Storage Account

- ✓ Azure Storage Account
- ✓ Azure Data Lake Storage Account
- ✓ Containers, Folders, Files
- ✓ Semi-structured Data
- ✓ Unstructured Data
- ✓ JSON, XML, Parquet, csv
- ✓ Hot, Cold, Cool Access Tiers
- ✓ Blob Types & Realtime Use

Ch 14: Azure Tables

- ✓ Structured Data Sources
- ✓ Azure Storage Tables
- ✓ Entities & Properties
- ✓ Row Key, Partition Key
- ✓ OData Queries

Ch 15: Azure ETL Services

- ✓ Azure Data Factory
- ✓ ADF Concepts, Architecture
- ✓ Azure Databricks
- ✓ Databricks Concepts
- ✓ Data Ingestion Pipelines
- ✓ ADF Vs Databricks

Ch 16: Azure Cosmos DB

- ✓ NoSQL Database
- ✓ Azure Cosmos DB Config
- ✓ Cosmos DB Endpoints
- ✓ Basic Operations
- ✓ Handling JSON Data

Ch 17: Open-Source Databases

- ✓ Azure services for open-source DB
- ✓ Azure Database for MySQL
- ✓ Azure Database for PostgreSQL
- ✓ PostgreSQL Flexible Server
- ✓ Advantages

Module 4: Analytics Workload on Fabric & Power BI (25–30%)

Ch 18: Microsoft Fabric - 1

- ✓ Fabric Components

- ✓ Fabric One Lake
- ✓ Fabric Warehouse Creation
- ✓ Warehouse Operations

Ch 19: Microsoft Fabric - 2

- ✓ Fabric Lakehouse Creation
- ✓ Fabric Notebooks
- ✓ OneLake Shortcuts
- ✓ Fabric Stream House
- ✓ KQL Databases

Ch 20: Microsoft Fabric - 3

- ✓ Mirroring Concept
- ✓ DB Mirroring in Fabric
- ✓ Read and Write Operations
- ✓ Mirror Configurations
- ✓ Mirror Monitor

Ch 21: Microsoft Fabric - 4

- ✓ Creating Data Models
- ✓ Star, Snowflake
- ✓ Semantic Data Models
- ✓ Relational Modeling
- ✓ Analytic Components
- ✓ Power BI

Ch 22: DP 900 Certification Preparation

- ✓ Domain-wise Revision
- ✓ Azure service Identification Questions
- ✓ Scenario-Based MCQs
- ✓ Microsoft Learn practice Assessments
- ✓ Detailed Answer Explanations

Ch 23: DP 900 Mock Examination & Certification Readiness

- ✓ Timed mock tests
- ✓ Performance Analysis
- ✓ Weak-area Review
- ✓ Certification Registration Guidance
- ✓ Final Exam Preparation Checklist

Ch 24: DP 900 Exam Samples

- ✓ Previous Exam Papers
- ✓ Exam Tips
- ✓ Exam Recommendations
- ✓ Resume Tips & Tricks

SQL School – DP-900 Training Highlights

- LIVE Interactive Instructor-Led Training
- Detailed Step by Step Videos (Latest, Practical, Exam Oriented)
- Beginner-Friendly Azure Data Fundamentals
- Hands-on Azure SQL and Storage Demonstrations

- Relational and Non-Relational Database Concepts
- Microsoft Fabric and Azure Analytics Overview
- Power BI Reporting and Data Visualization
- Real-World Scenarios and Practical Assignments
- DP-900 Practice Questions, Mock Tests and Certification Guidance



The banner features a man in a grey blazer on the right side. On the left, the 'SQL SCHOOL' logo is displayed in red and blue, with 'Premium Quality Training' in red below it. A large yellow and blue banner reads 'Enroll Today DP-900 Exam Training'. Below this, two callouts highlight 'Get Attractive Discounts' and 'Best Support for Getting DP-900 Certified'. A row of four icons represents 'LIVE Online Training', 'Theory + Practical', 'Certification Guidance', and 'Expert Support'. At the bottom, a yellow button says 'Join SQL School Today >'. On the right, a 'Microsoft CERTIFIED' badge for 'AZURE DATA FUNDAMENTALS' is shown next to a database cylinder and a bar chart icon.

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Wish you all the best!