Implement scalable database solutions using Azure SQL (DP-300)

Duration: 4 Days Course Code: M-DP300

Overview:

This course provides students with the knowledge and skills to administer a SQL Server database infrastructure.

This course provides students with the knowledge and skills to administer a SQL Server database infrastructure for cloud, on-premises and hybrid relational databases and who work with the Microsoft PaaS relational database offerings. Additionally, it will be of use to individuals who develop applications that deliver content from SQL-based relational databases.

Updated August 2026

Target Audience:

The audience for this course is data professionals managing data and databases who want to learn about administering the data platform technologies that are available on Microsoft Azure. This course is also valuable for data architects and application developers who need to understand what technologies are available for the data platform with Azure and how to work with those technologies through applications.

Objectives:

- Students will learn to:
- Prepare to maintain SQL databases on Azure
- Deploy IaaS solutions with Azure SQL
- Deploy PaaS solutions with Azure SQL
- Evaluate strategies for migrating to Azure SQL
- Migrate SQL Server workloads to Azure SQL Database
- Migrate SQL workloads to Azure Managed Instances
- Configure database authentication and authorization
- Protect data in-transit and at rest
- Implement compliance controls for sensitive data
- Describe performance monitoring
- Configure SQL Server resources for optimal performance
- Configure databases for optimal performance
- Explore query performance optimization
- Evaluate performance improvements
- Explore performance-based design
- Automate deployment of database resources
- Create and manage SQL Agent jobs
- Manage Azure PaaS tasks using automation
- Describe high availability and disaster recovery strategies
- Explore IaaS and PaaS solutions for high availability and disaster recovery
- Back up and restore databases

Prerequisites:

Participants should have:

- Experience with SQL Server databases and database administration.
- Knowledge of relational database concepts and Transact-SQL (T-SQL).
- Familiarity with Microsoft Azure and Azure data services.
- Understanding of database security, backup and recovery, monitoring, and performance optimization.
- M-AZ900 - Introduction to Cloud Infrastructure (AZ-900)

Testing and Certification

Exam DP-300: Implement scalable database solutions using Azure SQL

- Microsoft Certified: Azure Database Administrator Associate

- M-DP900 - Introduction to Microsoft Azure Data (DP-900)

Follow-on-Courses:

- M-DP3015 - Get started with Azure Cosmos DB NoSQL development (DP-3015)
- M-DP3020 - Develop data-driven applications with Azure SQL Database

Content:

Module 1 : Plan and implement data platform resources

- Deploy IaaS solutions with Azure SQL
- Deploy PaaS solutions with Azure SQL
- Migrate SQL Server workloads to Azure SQL Database
- Migrate SQL Server workloads to Azure SQL Managed Instance

Module 2 : Implement a secure environment for a database service

- Configure database authentication and authorization
- Protect data in-transit and at rest
- Implement compliance controls for sensitive data

Module 3 : Monitor and optimize operational resources in Azure SQL

- Describe performance monitoring
- Configure SQL Server resources for optimal performance
- Configure databases for optimal performance

Module 4 : Optimize query performance in Azure SQL

- Explore query performance optimization
- Explore performance-based database design
- Evaluate performance improvements

Module 5 : Automate database tasks for Azure SQL

- Automate database deployment
- Create and manage SQL Agent jobs
- Manage Azure PaaS tasks using automation

Module 6 : Plan and implement a high availability and disaster recovery environment

- Describe high availability and disaster recovery strategies
- Explore IaaS and PaaS solutions for high availability and disaster recovery
- Back up and restore databases

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

info@globalknowledge.co.uk

www.globalknowledge.com/en-gb/

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK