

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

Duration: 4 Days **Course Code: M-DP300** **Delivery Method: Company Event**

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

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

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:

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

Testing and Certification

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

- [Microsoft Certified: Azure Database Administrator Associate](#)

(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)
- 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 00 971 4 446 4987

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