DP-300T00: Administering Microsoft® Azure® SQL Solutions

Duration: 4 Days
Method: Instructor-Led Training (ILT) | Live Online Training

*Certification: Microsoft Certified: Azure Database Administrator Associate — **Exam:** DP-300: Administering Microsoft Azure SQL Solutions*

Course Description

This course provides participants with the knowledge and skills necessary to administer a SQL Server® database infrastructure for cloud, on-premises, and hybrid relational databases.

Target Audience

This course is intended for:
- Data professionals who manage data and databases and want to learn about administering the data platform technologies that are available on Microsoft Azure.
- 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.
- Individuals who work with the Microsoft PaaS relational database offerings.
- Individuals who develop applications that deliver content from SQL-based relational databases.

Prerequisites

To attend this course, candidates must have:
- Professional experience in database management, specifically:
  o Working with, maintaining, and developing with SQL Server.
  o Experience with Azure, such as deploying and managing resources.
- Technical knowledge of cloud technologies.
- Completed the following courses:
  o *AZ-900: Azure Fundamentals*
  o *DP-900: Azure Data Fundamentals*

Microsoft Partner

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Course Objectives

Upon successful completion of this course, attendees will be able to:

- Plan, deploy and configure Azure SQL offerings.
- Monitor database performance and tune a database and queries for optimum performance.
- Plan and configure a High Availability Solution.

Course Topics

Module 1: Introduction to Azure Database Administration

- Prepare to Maintain SQL Databases on Azure

Module 2: Plan and Implement Data Platform Resources

- Deploy IaaS Solutions with Azure SQL
- Deploy PaaS Solutions with Azure SQL
- Evaluate Strategies for Migrating to Azure SQL
- Migrate SQL Workloads to Azure SQL Databases
- Migrate SQL Workloads to Azure Managed Instances

Module 3: 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 4: Monitor and Optimize Operational Resources in Azure SQL

- Describe Performance Monitoring
- Configure SQL Server Resources for Optimal Performance
- Configure Databases for Optimal Performance

Module 5: Optimize Query Performance in Azure SQL

- Explore Query Performance Optimization
- Explore Performance-Based Design
- Evaluate Performance Improvements

Module 6: Automate Database Tasks for Azure SQL

- Automate Deployment of Database Resources
- Create and Manage SQL Agent Jobs
- Manage Azure PaaS Tasks Using Automation

Module 7: 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

LABS INCLUDED

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