Implement Scalable Database Solutions using Azure SQL (DP-300) Training

Duration: **4 Day**

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Overview

This {*training} is designed for professionals who manage or plan to manage SQL Server databases within Microsoft Azure. It covers deployment, configuration, security, performance tuning, and high availability solutions for both cloud-native and hybrid environments. Students also gain hands-on skills in T-SQL-based administrative tasks.

Prerequisites

- Basic Azure knowledge (Azure Fundamentals)
- Familiarity with T-SQL and Azure Data Fundamentals
- Basic querying and interpreting SQL results

Who Should Attend

- Azure database administrators
- Data professionals managing hybrid/cloud data platforms
- Developers working with SQL-based systems
- Engineers focused on performance, security, and continuity

What You Will Learn

By the end of this {*training}, you will have gained knowledge and skills in the following areas:

- Administering Azure SQL via portal, PowerShell, CLI, ARM
- Manual and scripted deployment of SQL resources
- Configuring authentication & authorization
- Implementing security (at rest & in transit)
- Monitoring performance metrics and optimization
- Scheduling tasks and creating alert systems
- Implementing High Availability and Disaster Recovery strategies

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Outline

1. Role of Azure Database Administrator

Overview of SQL options in Azure, compatibility levels, and Azure DB types.

2. Planning and Deploying Data Platform Resources

Hands-on deployment of Azure SQL Database, Managed Instance, PostgreSQL, and MySQL.

3. Implementing a Secure Environment

Encryption methods, AAD integration, firewalls, and data compliance policies.

4. Monitoring and Optimizing Resources

Performance metrics, baselines, tuning tools, and fragmentation resolution.

5. Optimizing Query Performance

Execution plan analysis, Query Store, indexing strategies, and database design review.

6. Task Automation

Using templates, automation scripts, alerts, and scheduled maintenance jobs.

7. High Availability and Disaster Recovery

Geo-replication, backup strategies, RPO/RTO planning, and implementation labs.