

Administering Microsoft Azure SQL Solutions

Course Duration: 32 Hrs.

Course Code: DP-300T00

Course Overview

Administering Microsoft Azure SQL Solutions is designed for individuals aiming at becoming efficient Azure database administrators. This course provides comprehensive training on focusing major areas such as administering and implementing data platform technologies of Microsoft

Course Content

Module-01 Get started with data engineering on Azure

- Introduction to data engineering on Azure
- Introduction to Azure Data Lake Storage Gen2
- Introduction to Azure Synapse Analytics

Module-02 Build data analytics solutions using Azure Synapse serverless SQL pools

- Use Azure Synapse serverless SQL pool to query files in a data lake
- Use Azure Synapse serverless SQL pools to transform data in a data lake
- Create a lake database in Azure Synapse Analytics
- Secure data and manage users in Azure Synapse serverless SQL pools

Module-03 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-04 Monitor and optimized operational resources in Azure SQL

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

Module-05 Optimize query performance in Azure SQL

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

Module-06 Automate database tasks for Azure SQL

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

Module-07 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
- Backup and restore databases

