

DP-3020: Develop data-driven applications with Azure SQL Database

Course Outline

1) Get started with Azure SQL Database for modern application development

- Explain the deployment options available
- Explore Hyperscale capabilities
- Understand how serverless works
- Explain application resilience options for Azure SQL Database
- Understand AI capabilities for Azure SQL Database
- Lab: Enable application resilience with Azure SQL Database

2) Develop for Azure SQL Database

- Create and configure an Azure SQL Database
- Use SQL Database projects
- Build and deploy database projects in GitHub Actions and Azure DevOps
- Understand how to secure and monitor your Continuous Integration and Continuous Deployment (CI/CD) process
- Lab: Configure and deploy CI/CD pipelines for Azure SQL Database projects

3) Develop a data API for Azure SQL Database

- Use Data API Builder to create a data API for Azure SQL Database
- Develop a data API using a static Azure web app
- Develop a data API using Azure Web Apps
- Lab: Develop a Data API for Azure SQL Database

4) Explore data manipulation options in Azure SQL Database

- Invoke an external REST endpoint in Azure SQL Database
- Manipulate data in Azure SQL Database by using Azure Functions
- Understand additional data movement tools
- Lab: Develop a Data API for Azure SQL Database

5) Explore security practices for Azure SQL Database

- Explain the authentication options available
- Configure managed identity to access Azure SQL Database
- Understand how firewall rules work
- Explain advanced data security features
- Lab: Configure managed identity for Azure SQL Database