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

About : This course prepares you for the task of developing data-driven applications by using Microsoft Azure SQL Database.

You'll learn how to create and configure an Azure SQL Database, build and deploy database projects using GitHub Actions and Azure Pipelines, and automate the publishing process. Additionally, you'll explore how to use Data API builder for Azure SQL Database and develop a data API with Azure Web Apps and Static Web App.

Furthermore, you'll gain skills in importing data via an external REST endpoint, exporting data using an Azure Function, and securing an Azure SQL Database. These essential skills will empower you to effectively develop and manage applications using Azure SQL Database.

Duration : 1 Day

Prerequisites :

- ✓ Experience with relational databases.
- ✓ Basic knowledge of security concepts like identities and permissions.
- ✓ Experience using the Azure portal to create resources and set permissions.

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- Understand the deployment options

- Explore the Hyperscale capabilities

- Understand the serverless compute tier

- Enable application resilience with Azure SQL Database

- Understand AI capabilities for Azure SQL Database

Module 02 : Develop for Azure SQL Database

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- Create and configure an Azure SQL Database

- Use SQL Database Projects

- Build and deploy database projects in GitHub Actions and Azure DevOps

- Secure and monitor Continuous Integration and

- Continuous Deployment (CI/CD)

Module 03 : Develop a data API for Azure SQL Database

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- Explore Data API Builder for Azure SQL Database

- Develop a data API using Azure Static Web Apps

- Develop a data API using Azure Web App for Containers

Module 04 : Explore data manipulation options in Azure SQL Database

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- Use RESTful endpoints to import data to Azure SQL Database

- Manipulate data in Azure SQL Database with Azure Functions

- Understand the data movement tools available

Module 05 : Explore security practices for Azure SQL Database

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- Explore authentication methods

- Configure managed identity

- Understand firewall rules

- Explore advanced data security