

## Develop data-driven applications by using Azure SQL Database

**Courses Code:** DP-3020

**Duration:** 1 Day

**Delivery Mode:** Instructor-led Training (ILT) | Virtual Instructor led Training (VILT)

### Overview

This learning path 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.

### Skills Covered

- 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.

### Who Should Attend

Software engineers tasked with authoring cloud-native solutions that leverage Azure Cosmos DB for NoSQL and its various SDKs. They are familiar with C# programming. They also have experience writing code that interacts with a SQL or NoSQL database platform.

### Prerequisites

- Basic understanding of **data concepts and relational data structures**.
- Familiarity with **Microsoft Azure fundamentals** recommended.
- Experience with **SQL queries** is beneficial.

### Course Modules

#### 1. Get started with Azure SQL Database for modern application development



You'll explore different features and tools to help you develop in Azure SQL Database.

## **2. Develop for Azure SQL Database**

You'll learn different methods to develop and automate Azure SQL Database publishing for development purposes.

## **3. Develop a data API for Azure SQL Database**

We'll explore the use of Azure's Data API Builder, a powerful tool that simplifies the creation of REST and GraphQL endpoints for your Azure SQL Database. With features like automatic query generation, granular security controls, and seamless integration with other Azure services, the Data API Builder can transform your database into a versatile API with minimal effort.

## **4. Explore data manipulation options in Azure SQL Database**

Azure SQL Database allows you to import data using RESTful endpoints. This capability integrates Azure SQL Database with various external services and APIs, making it a versatile and user-friendly platform. Also, by combining Azure Functions with Azure SQL Database, you can create seamless workflows that automate data processing and enhance the functionality of your applications.

## **5. Explore security practices for Azure SQL Database**

You'll explore different features and tools to help you secure an Azure SQL Database.

Ref: <https://trainocate.com/courses/microsoft/dp-3020-develop-data-driven-applications-by-using-azure-sql-database-training>

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