

EX-26. Create a SQL storage service and perform a basic query using any Public Cloud Service Provider (Azure/GCP/AWS) to demonstrate Database as a Service (DaaS) using Azure.

Aim

To create a **SQL Storage Service** using **Microsoft Azure SQL Database** and perform basic SQL queries to demonstrate **Database as a Service (DaaS)**.

Procedure

Step 1: Create an Azure Account

1. Open a web browser and log in to the **Azure Portal**.
2. If not registered, create a new Azure account.

Step 2: Create an Azure SQL Database

1. In the Azure Portal, click **Create a resource**.
2. Select **Databases → SQL Database**.
3. Enter the following details:
 - o **Database Name:** StudentDB
 - o **Server:** Create a new SQL server
 - o **Authentication:** SQL authentication
 - o **Username & Password:** Set admin credentials
4. Choose **Basic / DTU-based pricing**.
5. Click **Review + Create → Create**.

Create SQL Database

Microsoft

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Azure for Students

Resource group * ⓘ

resource_group

[Create new](#)

Database details

Enter required settings for this database, including picking a logical server and configuring the compute and storage resources

Database name *

historydata

Server * ⓘ

(new) webser (Central India)

[Create new](#)

Want to use SQL elastic pool? ⓘ

Yes No

Workload environment

Development

Production

 Default settings provided for Development workloads. Configurations can

[Review + create](#)

[Next : Networking >](#)

Cost summary

General Purpose (GP_S_Gen5_1)

Cost per GB (in USD)	0.13
Max storage selected (in GB)	x 41.6

ESTIMATED STORAGE COST / MONTH 5.45 USD
COMPUTE COST / VCORE SECOND¹ 0.000159 USD

NOTES
1 Serverless databases are billed in vCore seconds based on a combination of CPU and memory utilization. [Learn more about serverless billing](#)

Step 3: Configure Firewall Settings

1. Open the SQL Server resource.

2. Select **Networking**.
3. Enable:
 - Allow Azure services and resources to access this server
4. Add your client IP address.
5. Save the settings.

[Home](#) >

Create SQL Database

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[Basics](#) [Networking](#) [Security](#) [Additional settings](#) [Tags](#) [Review + create](#)

Product details

SQL database
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Estimated cost

Storage cost 5.45 USD / month + Compute cost 0.000159 USD / vCore second

Terms

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. For additional details see [Azure Marketplace Terms](#).

Basics

Subscription	Azure for Students
Resource group	resource_group
Region	Central India
Database name	historydata
Server	(new) webser
Authentication method	Microsoft Entra-only authentication

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Step 4: Connect to Azure SQL Database

1. Open **Query Editor (Preview)** in the Azure Portal
(or use *SQL Server Management Studio*).

2. Log in using SQL admin credentials.
3. Select the database StudentDB.

The screenshot shows the Microsoft Azure portal interface. At the top, it displays 'Microsoft Azure' with a search bar and various navigation icons. The main title is 'Microsoft.SQLDatabase.newDatabaseNewServer_7a3da9905ba64ec6a33cf | Overview'. On the left, there's a sidebar with 'Deployment' selected, showing 'Overview', 'Inputs', 'Outputs', and 'Template'. The main content area shows a deployment status: 'Deployment is in progress'. It details the deployment name, subscription (Azure for Students), and resource group. Below this, under 'Deployment details', there's a table:

Resource	Type	Status	Operation details
webserr	Microsoft.Sql/servers	Accepted	Operation details

On the right side of the page, there are promotional banners for Microsoft Defender for Cloud, free tutorials, and expert support.

Observe DaaS Features

1. Azure automatically manages:
 - o Database server
 - o Backup and recovery
 - o Security
 - o Scaling
2. Users interact only with data and queries.

Result

A **SQL storage service** was successfully created using **Azure SQL Database**, and basic SQL queries were executed, demonstrating **Database as a Service (DaaS)**.

Outputs:

Home >

Microsoft.SQLDatabase.newDatabaseNewServer_7a3da9905ba64ec6a33cf | Overview

Deployment

Search X < Delete Cancel Redeploy Download Refresh

Overview Your deployment is complete

Deployment name : Microsoft.SQLDatabase.newDatabaseNewServer_7a3... Start time : 12/30/2025, 10:59:26 PM
Subscription : Azure for Students Correlation ID : 4fc91f28-7740-4e7f-be07-2569d7392177
Resource group : resource_group

Inputs Outputs Template

Deployment details Next steps

Go to resource

Home > Microsoft.SQLDatabase.newDatabaseNewServer_7a3da9905ba64ec6a33cf | Overview >

mydata (webserr/mydata) SQL database

Search Copy Restore Export Set server firewall Delete Connect with... Feedback

Overview Resource group (move) : resource_group Server name : webserr.database.windows.net
Status : Online Connection strings : Show database connection strings
Location : Southeast Asia Pricing tier : General Purpose - Serverless: Gen5, 1 vCore
Subscription (move) : Azure for Students Auto-pause delay : 1 hour
Subscription ID : c552dc0f-ec3d-4ed4-9b72-b669503ca0d1 Earliest restore point : No restore point available
Tags (edit) : Add tags

Getting started Monitoring Properties Notifications (0) Integrations Tutorials

Activity log Tags Diagnose and solve problems Query editor (preview) Mirror database in Fabric (preview) Resource visualizer

> Settings > Data management > Integrations > Power Platform > Security > Intelligent performance > Monitoring > Automation > Help

Database data storage
Review the below metrics and monitor your applications and infrastructure.

0.01% Used

Used space 4.13 MB Remaining space 32 GB Allocated space 16 MB Max storage 32 GB

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