

Walkthrough-Create a SQL database

In this walkthrough task we will create a SQL database in Azure and then query the data in that database.

You can complete this walkthrough task by completing the steps outlined below, or you can simply read through them, depending on your available time.

Prerequisites

- You require need an Azure subscription to perform these steps. If you don't have one you can create one by following the steps outlined on the **Create your Azure free account today**¹ webpage.

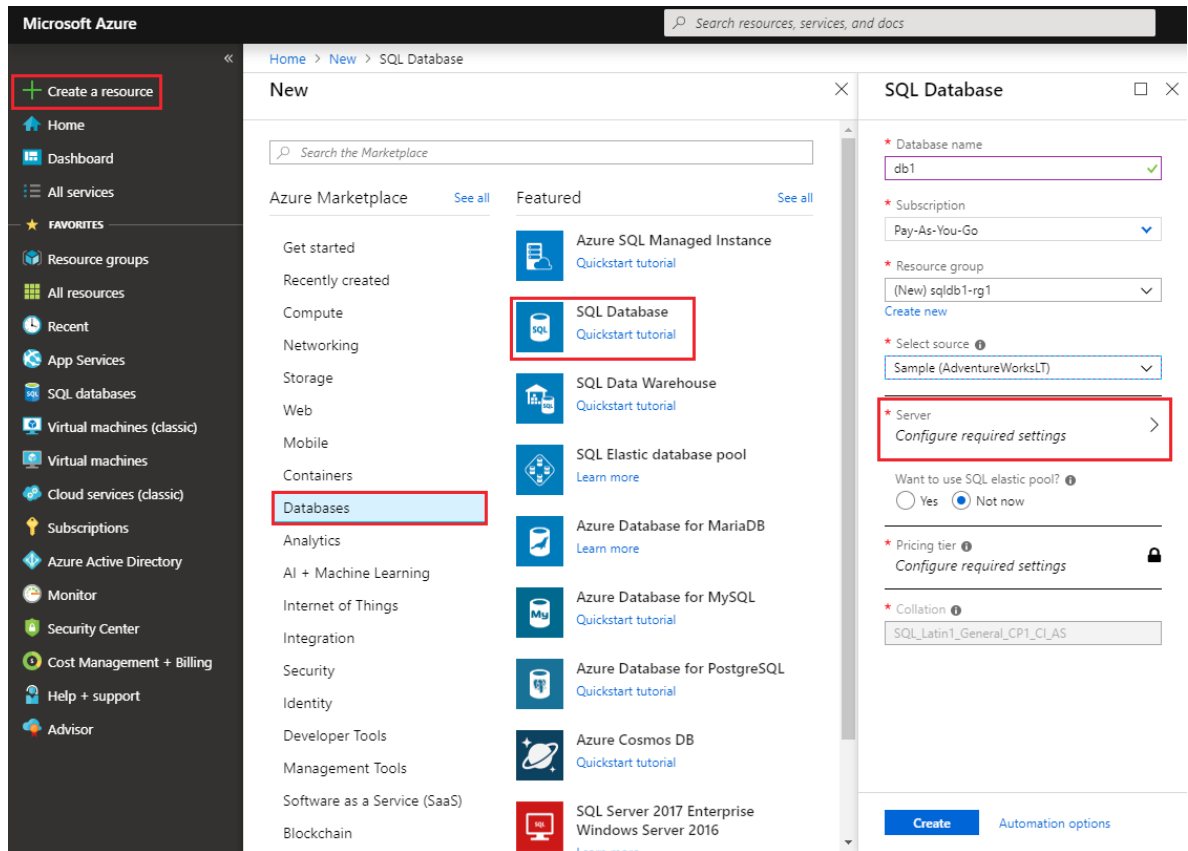
Steps

1. Sign in to the Azure portal at <https://portal.azure.com>²
2. Select **Create a resource** on the upper left hand side of the Azure Portal. Select **Databases** > **SQL Databases** and in the **SQL Database** pane fill in the fields as per the below table, and then click **Server**

Setting	Value
Database name	db1
Subscription	< Select your subscription >
Resource group	Select Create new , enter sqldb1-rg1 , then select OK .
Select source	Select Sample AdventureWorksLT

¹ https://azure.microsoft.com/en-us/free/?ref=microsoft.com&utm_source=microsoft.com&utm_medium=docs&utm_campaign=visualstudio

² <https://portal.azure.com>



3.

4. In the **Server** pane, choose **Create a new server** and complete the New server pane using below details and click **Select** when finished.

Setting	Value
Server name	< this needs to be a unique name >
Server admin login	azureuser
Password	Enter a password that meets the complexity requirements.
Location	East US

Server

+ Create a new server

No servers found

New server

* Server name

dbsrv11

.database.windows.net

* Server admin login

azureuser

* Password

* Confirm password

* Location

East US

☒ Allow Azure services to access server

Advanced Threat Protection

Start FREE Trial Not now

FREE trial period of 30 days, and then 12.6495 EUR/server/month.

Learn more

Select

5.

6. On the **Storage Accounts** window that appears, if there are no storage accounts present you can select **Create storage account**, or if there are already storage accounts present, this option will not be present and you can choose the option **+ Add**.

Server

+ Create a new server

No servers found

New server

* Server name

dbsrv11

.database.windows.net

* Server admin login

azureuser

* Password

* Confirm password

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East US

☒ Allow Azure services to access server

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Learn more

Select

7.

- On the **SQL Database** pane, select **Pricing tier**. Explore the amount of *DTUs* and *storage* available for each service tier.

SQL Database **Configure**

db1

Subscription: Pay-As-You-Go

Resource group: (New) sqldb1-rg1

Select source: Sample (AdventureWorksLT)

Server: dbsrv11 (East US)

Want to use SQL elastic pool? ☐ Yes ☒ Not now

Pricing tier: **Standard S0: 10 DTUs, 250 GB**

Collation: SQL_Latin1_General_CP1_CI_AS

Basic For less demanding workloads. Starting at 4.21 EUR / month.

Standard For workloads with typical performance requirements. Starting at 12.65 EUR / month.

Premium For IO-intensive workloads. Starting at 392.13 EUR / month.

DTUs What is a DTU? 10 (S0)

Max data size 250 GB

Cost Summary

Cost per DTU (in EUR)	1.27
DTUs selected	x 10
EST. COST PER MONTH	12.65 EUR

Create **Automation options** **Apply**

9.

Note: This database uses the DTU-based purchasing model, but there is another, the vCore-based purchasing model, which is also available.

- Select the **Standard** service tier, and then use the slider to select **10 DTUs (S0)** and **1 GB** of storage and select **Apply**.

SQL Database **Configure**

db1

Subscription: Pay-As-You-Go

Resource group: (New) sqldb1-rg1

Select source: Sample (AdventureWorksLT)

Server: dbsrv11 (East US)

Want to use SQL elastic pool? ☐ Yes ☒ Not now

Pricing tier: **Standard S0: 10 DTUs, 250 GB**

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Basic For less demanding workloads. Starting at 4.21 EUR / month.

Standard For workloads with typical performance requirements. Starting at 12.65 EUR / month.

Premium For IO-intensive workloads. Starting at 392.13 EUR / month.

DTUs What is a DTU? 10 (S0)

Max data size 1 GB

Cost Summary

Cost per DTU (in EUR)	1.27
DTUs selected	x 10
EST. COST PER MONTH	12.65 EUR

Create **Automation options** **Apply**

2.

- Click **Create** to deploy and provision the resource group, server, and database. It can take approx 2 to 5 minutes to deploy.

SQL Database □ ×

db1 ✓

* Subscription
Pay-As-You-Go ▼

* Resource group
(New) sqldb1-rg1 ▼
[Create new](#)

* Select source ?
Sample (AdventureWorksLT) ▼

* Server
dbsrv11 (East US) >

Want to use SQL elastic pool? ?
☐ Yes ☒ Not now

* Pricing tier ?
Standard S0: 10 DTUs, 1 GB >

* Collation ?
SQL_Latin1_General_CP1_CI_AS

Create [Automation options](#)

4.

5. Once complete verify the successful deployment by going to the resource group you just created in the Azure Portal and verifying the presence of the server and database.

sqldb1-rg1 Resource group ✕

[+ Add](#) [Edit columns](#) [Delete resource group](#) [Refresh](#) [Move](#) [Assign tags](#) [Delete](#) [Export to CSV](#)

Subscription (change)
Pay-As-You-Go
Subscription ID: 974e6e39-73eb-48b0-9226-dae31425c367
Deployments: 1 Succeeded

Tags (change)
[Click here to add tags](#)

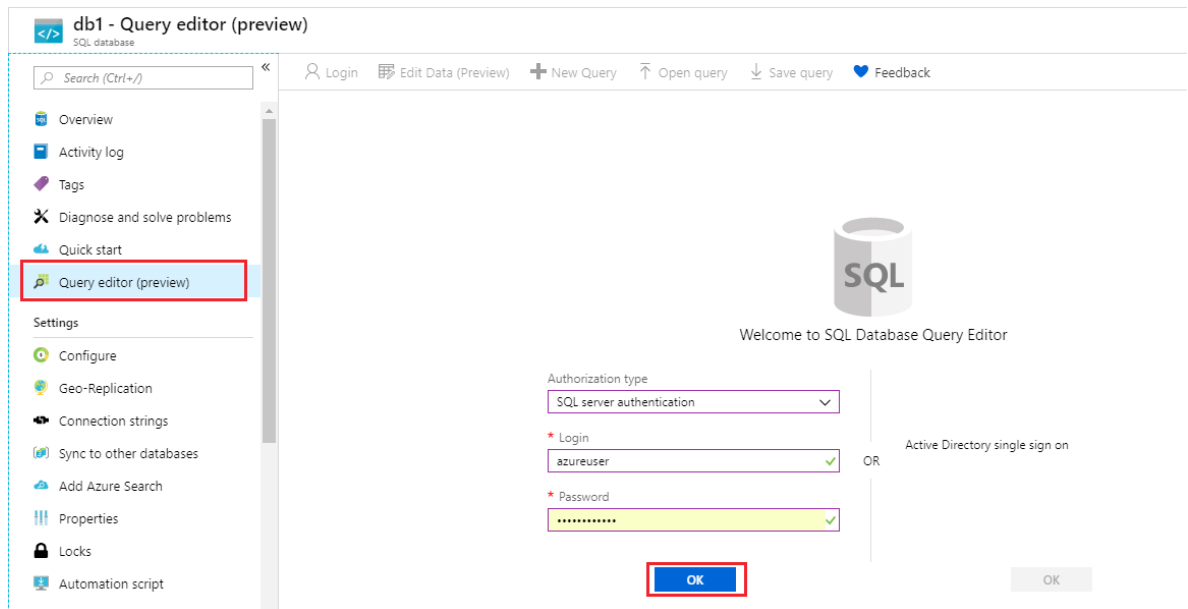
Filter by name... All types All locations No grouping

2 items ☐ Show hidden types

NAME	TYPE	LOCATION	
dbsrv11	SQL server	East US	...
db1 (dbsrv11/db1)	SQL database	East US	...

6.

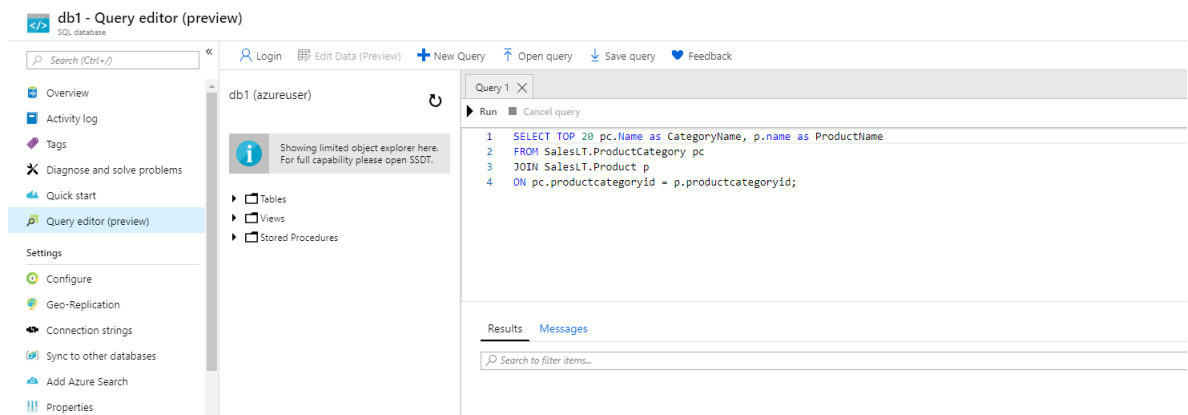
7. Open the SQL database you crated **db1**, go to the **Query Editor (preview)** in the left hand pane, and enter the login details and password. then click **OK**



8.

9. Once you log in successfully the query pane appears, enter the following query into the editor pane

```
SELECT TOP 20 pc.Name as CategoryName, p.name as ProductName
FROM SalesLT.ProductCategory pc
JOIN SalesLT.Product p
ON pc.productcategoryid = p.productcategoryid;
```



10.

11. Select *Run**, and then review the query results in the **Results** pane. The query should run successfully.

Query 1 X

▶ Run ■ Cancel query

```
1 SELECT TOP 20 pc.Name as CategoryName, p.name as ProductName
2 FROM SalesLT.ProductCategory pc
3 JOIN SalesLT.Product p
4 ON pc.productcategoryid = p.productcategoryid;
```

Results Messages

🔍 Search to filter items...

CATEGORYNAME	PRODUCTNAME
Road Frames	HL Road Frame - Black, 58
Road Frames	HL Road Frame - Red, 58
Helmets	Sport-100 Helmet, Red
Helmets	Sport-100 Helmet, Black
Socks	Mountain Bike Socks, M

✔ Query succeeded | 1s

12.

Congratulations! You have created a SQL database in Azure and successfully queried the data in that database.

Note: Remember to delete the resources you have just deployed if you are no longer using them to ensure you do not incur costs for running resources. You can delete all deployed resources by deleting the resource group in which they all reside.