Quickstart: Create a single database in Azure SQL Database using the Azure portal

04/23/2019 • 4 minutes to read • Contributors 👽 😡 🚳 🚳 🚳 all

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Creating a <u>single database</u> is the quickest and simplest deployment option for creating a database in Azure SQL Database. This quickstart shows you how to create and then query a single database using the Azure portal.

If you don't have an Azure subscription, create a free account.

For all steps in this quickstart, sign in to the Azure portal.

Create a single database

A single database can either be created in the provisioned or serverless (preview) compute tier.

- A single database in the provisioned compute tier has a defined amount of preallocated compute resources plus a set of memory and storage resources using one of two purchasing models.
- A single database in the serverless compute tier has a range of compute resources that are auto-scaled plus a specified amount of memory per core, and a specified amount of storage resources and is only available in the vCore-based purchasing models.

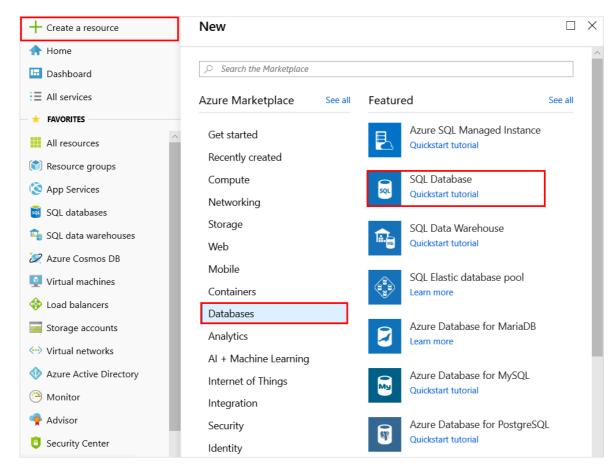
When you create a single database, you also define a <u>SQL Database server</u> to manage it and place it within <u>Azure resource group</u> in a specified region.

① Note

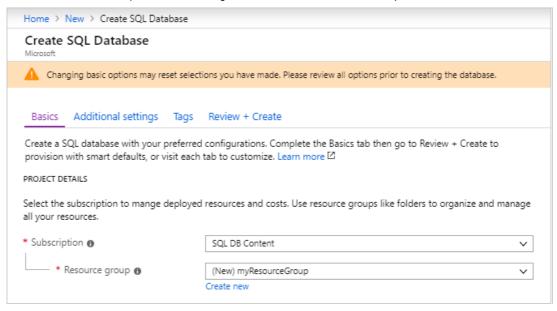
This quickstart uses the <u>vCore-based purchasing model</u> and the <u>serverless</u> compute tier, but the <u>DTU-based purchasing model</u> is also available.

To create a single database containing the AdventureWorksLT sample data:

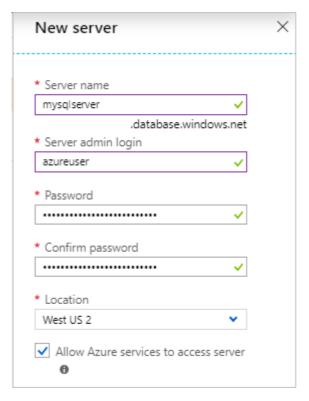
- 1. Select Create a resource in the upper left-hand corner of the Azure portal.
- Select Databases and then select SQL Database to open the Create SQL Database page.



- 3. On the **Basics** tab, in the **Project Details** section, type or select the following values:
 - **Subscription**: Drop down and select the correct subscription, if it doesn't appear.
 - Resource group: Select Create new, type myResourceGroup, and select OK.

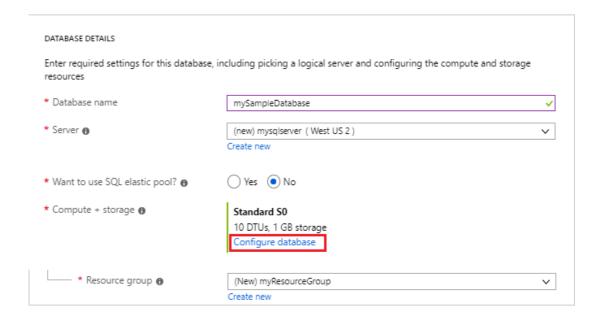


- 4. In the **Database Details** section, type or select the following values:
 - Database name: Enter mySampleDatabase.
 - Server: Select Create new and enter the following values and then select
 Select.
 - Server name: Type mysqlserver; along with some numbers for uniqueness.
 - Server admin login: Type azureuser.
 - **Password**: Type a complex password that meets password requirements.
 - Location: Choose a location from the drop-down, such as West US 2.

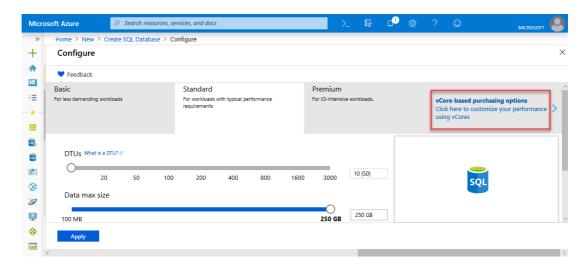


(i) Important

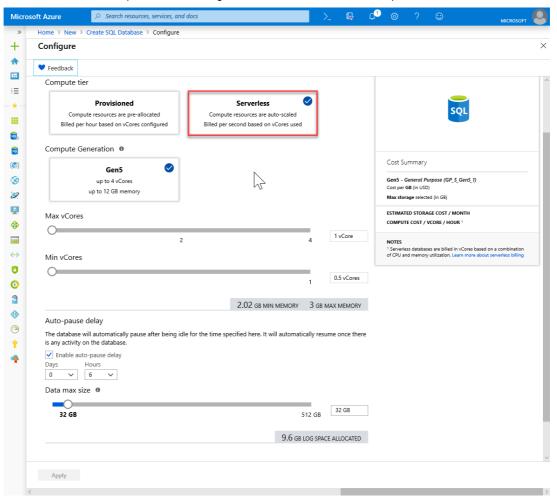
Remember to record the server admin login and password so you can log in to the server and databases for this and other quickstarts. If you forget your login or password, you can get the login name or reset the password on the **SQL server** page. To open the **SQL server** page, select the server name on the database **Overview** page after database creation.



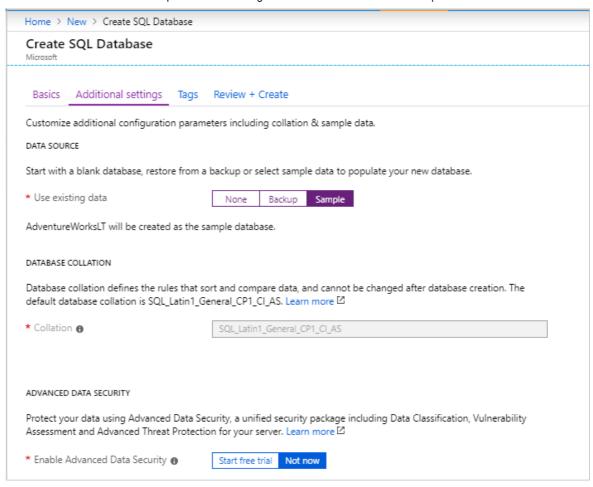
- Want to use SQL elastic pool: Select the No option.
- Compute + storage: Select Configure database and for this quickstart, select
 vCore-based purchasing options



• Select Serverless.



- Review the settings for Max vCores, Min vCores, Auto-pause delay, and Data max size. Change these as desired.
- Accept the preview terms and click **OK**.
- Select Apply.
- 5. Select the **Additional settings** tab.
- 6. In the Data source section, under Use existing data, select Sample.



(i) Important

Make sure to select the **Sample (AdventureWorksLT)** data so you can follow easily this and other Azure SQL Database quickstarts that use this data.

- 7. Leave the rest of the values as default and select **Review + Create** at the bottom of the form.
- 8. Review the final settings and select **Create**.
- 9. On the **SQL Database** form, select **Create** to deploy and provision the resource group, server, and database.

Query the database

Now that you've created the database, use the built-in query tool in the Azure portal to connect to the database and query the data.

1. On the **SQL Database** page for your database, select **Query editor (preview)** in the left menu.

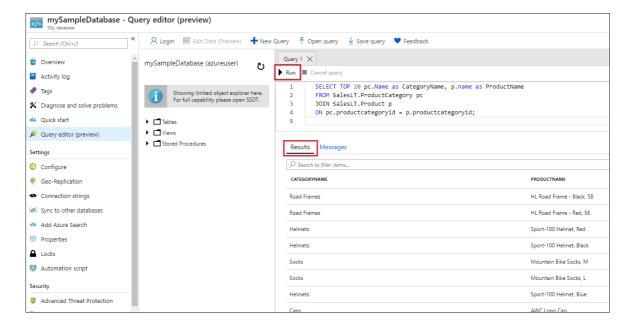


- 2. Enter your login information, and select **OK**.
- 3. Enter the following query in the **Query editor** pane.

```
SQL

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

4. Select Run, and then review the query results in the Results pane.



5. Close the **Query editor** page, and select **OK** when prompted to discard your unsaved edits.

Clean up resources

Keep this resource group, database server, and single database if you want to go to the <u>Next steps</u>. The next steps show you how to connect and query your database using different methods.

When you're finished using these resources, you can delete them as follows:

- 1. From the left menu in the Azure portal, select **Resource groups**, and then select **myResourceGroup**.
- 2. On your resource group page, select **Delete resource group**.
- 3. Enter myResourceGroup in the field, and then select **Delete**.

Next steps

- Create a server-level firewall rule to connect to the single database from onpremises or remote tools. For more information, see Create a server-level firewall rule.
- After you create a server-level firewall rule, connect and query your database using several different tools and languages.
 - Connect and query using SQL Server Management Studio
 - Connect and query using Azure Data Studio
- To create a single database in the provisioned compute tier using Azure CLI, see Azure CLI samples.
- To create a single database in the provisioned compute tier using Azure PowerShell, see Azure PowerShell samples.
- To create a single database in the serverless compute tier using Azure Powershell,
 see Create serverless database.