Exercise - Create an Azure SQL Database

Tailwind Traders has chosen Azure SQL Database for part of its migration. You've been tasked with creating the database.

In this exercise, you'll create a SQL database in Azure and then query the data in that database.

Task 1: Create the database

In this task, you create a SQL database based on the *AdventureWorksLT* sample database.

Task 1: Create the database

In this task, you create a SQL database based on the *AdventureWorksLT* sample database.

1. Sign in to the Azure portal.

2. Select **Create a resource > Databases > SQL database**.

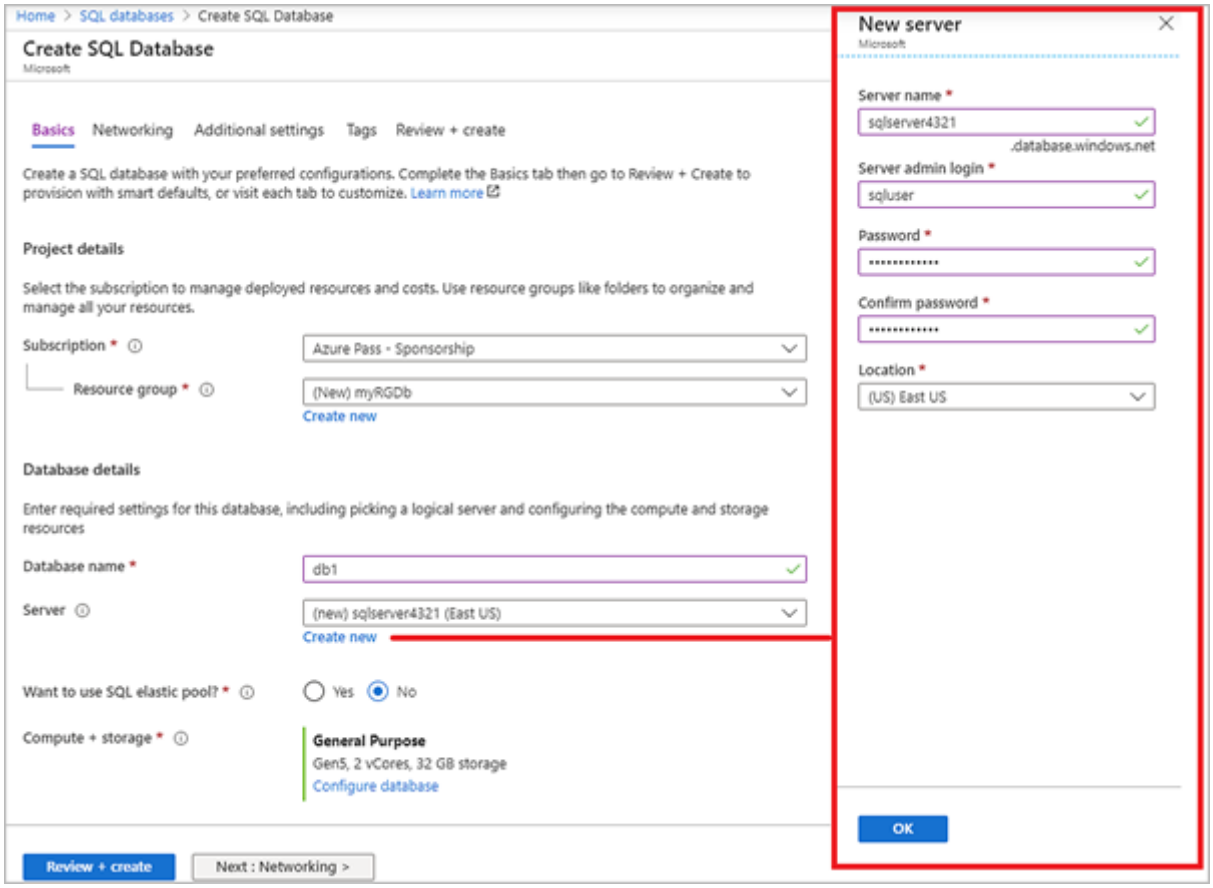
3. On the **Basics** tab, fill in the following information:

Setting	Value
Subscription	Choose Concierge Subscription
Resource Group	Choose [sandbox resource group name]
Database name	db1

4. For the **Server**, select **Create new**. i. Enter the following information (replace **nnnn** in the name of the server with letters and digits, such that the name is globally unique)

Setting	Value
Server Name	sqlserver**nnn** (must be unique)
Server admin login	sqluser

Setting	Value
Password	Pa$$w0rd1234
Location	(US) East US



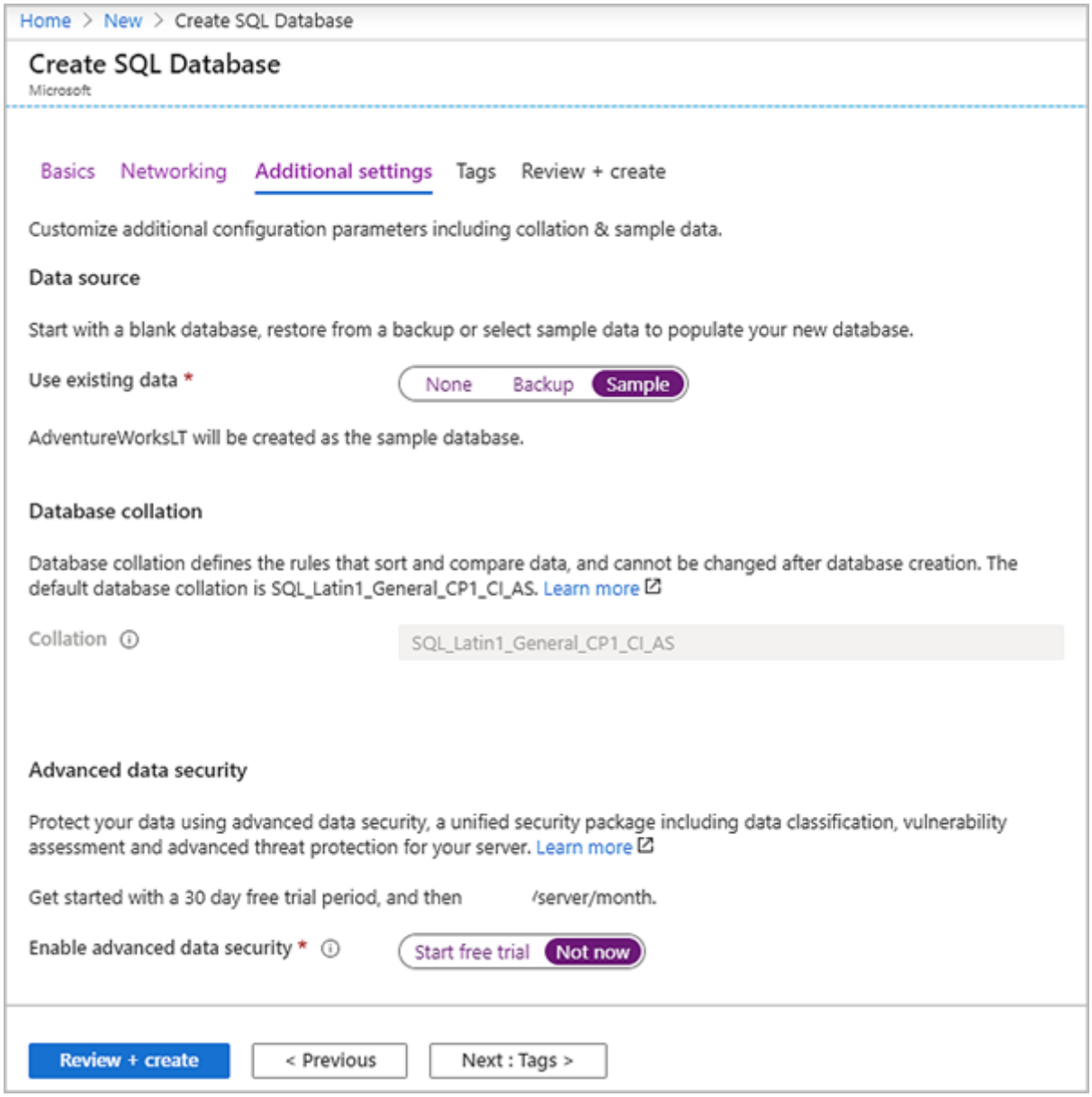
ii. Select OK when you have finished.

5. Select the **Next: Networking >** at the bottom, and configure the following settings (leave others with their defaults):

Setting	Value
Server Name	sqlserver**nnn** (must be unique)
Server admin login	sqluser
Password	Pa$$w0rd1234
Location	(US) East US

6. Select the **Next: Networking >** at the bottom, and configure the following settings (leave others with their defaults):

Setting	Value
Connectivity Method	Public Endpoint (Default)



7. Select **Review + create > Create** to deploy the server and database. i. It can take approximately 2 to 5 minutes to create the server and deploy the sample database.

8. Select **Go to resource**.

9. Select **Set server firewall** and Allow Azure services and resources to access this server = **Yes**.

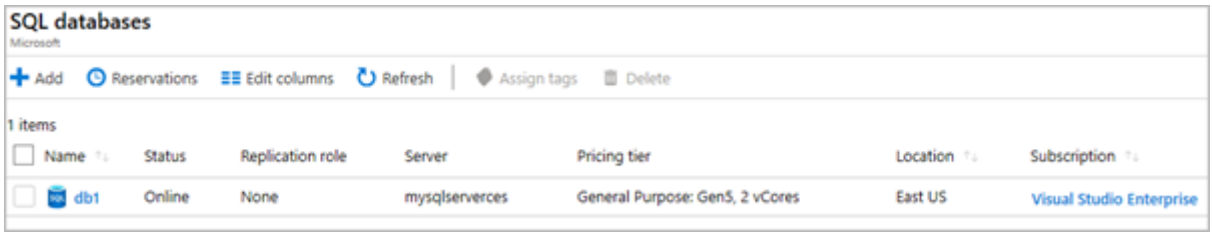
10. Select **Save.**

11. Select **OK.**

Task 2: Test the database

In this task, you configure the server and run a SQL query.

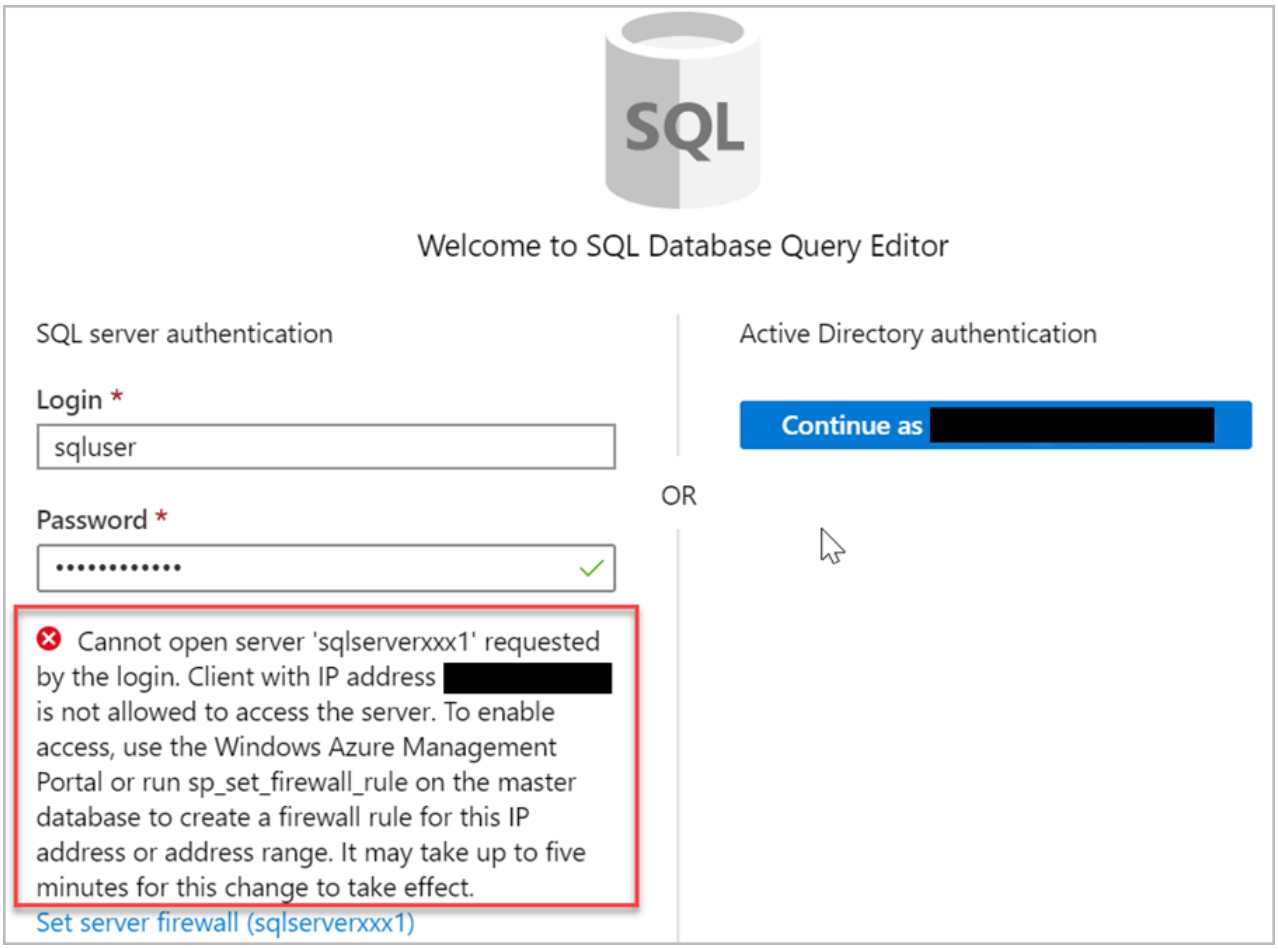
1. From the All resources pan, search and select SQL databases and ensure that your new database was created. You might need to refresh the page.



2. Select the **db1** entry representing the SQL database you created, and then select **Query editor (preview)** on the left side

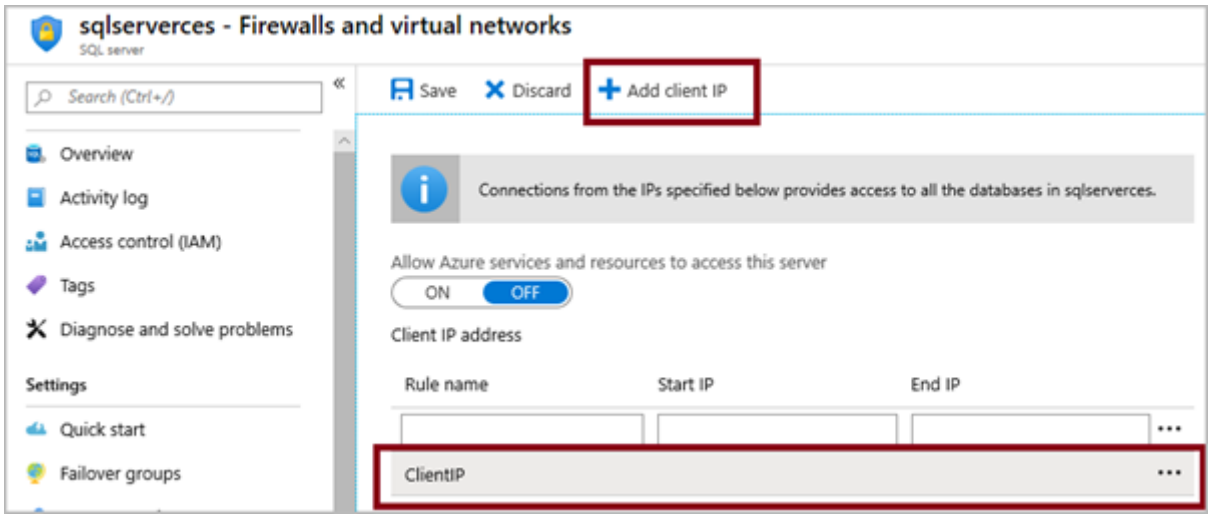
3. Sign in as **sqluser**, with the password **Pa$$word1234**.

4. You will not be able to sign in. Read the error closely and make note of the IP address that needs to be allowed through the firewall.



5. Select **Overview > Set server firewall**.

6. In **Client IP address** your IP will be shown, create a **Rule name** > Add your IP in both **Start IP and END IP** and then select **Save**.

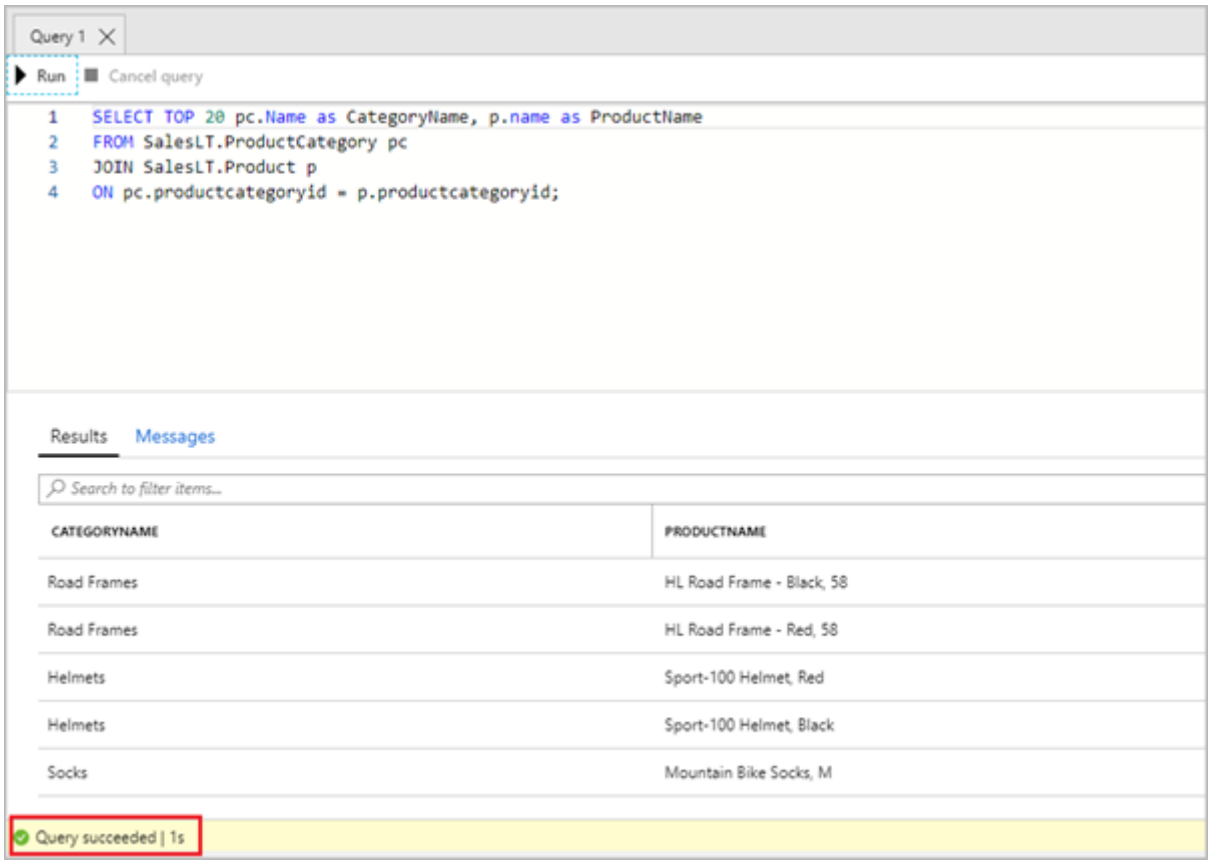


7. Return to your SQL database and the Query Editor sign-in page. Try to sign in again as **sqluser**, with the password **Pa$$word1234**. This time you should succeed. It might take a couple of minutes for the new firewall rule to be deployed. If you wait and still get an error, try selecting **Firewall settings** > again.

8. After you sign in successfully, the query pane appears. Enter the following query into the editor pane:

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

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



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