wts: title: '06 - Create a SQL database' module: 'Module 02 - Core Azure Services (Workloads)'

06 - Create a SQL database

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

Task 1: Create the database

In this task, we will create a SQL database based on the AdventureWorksLT sample database.

1. Sign in to the Azure portal at **https://portal.azure.com**.

2. From the **All services** blade, search for and select **SQL databases**, and then click **+ Add**.

3. On the **Basics** tab, fill in this information.

Setting	Value
Subscription	**Choose your subscription**
Resource group	**myRGDb** (create new)
Database name	**db1**

4. Next to the **Server** drop down list, click **Create new** and enter this information (replace **xxxx** in the name of the server with letters and digits such that the name is globally unique). Click **OK** when finished.

Setting	Value
Server name	**sqlserverxxxx** (must be unique)
Server admin login	**sqluser**
Password	**Pa$$w0rd1234**
Location	**(US) East US**
Allow Azure services to access server	*Select the checkbox*

5. Move to the **Networking** tab and configure the following settings (leave others with their defaults)

Setting	Value
Connectivity method	**Public endpoint**
Allow Azure services and resources to access this server	**Yes**
Add current client IP address	**No**

6. Move to the **Additional settings** tab. We will be using the AdventureWorksLT sample database.

Setting	Value
Use existing data	**Sample**
Collation	***use default***
Enable advanced data security	**Not now**

7. Click **Review + create** and then click **Create** to deploy and provision the resource group, server, and database. It can take approx. 2 to 5 minutes to deploy.

8. Monitor your deployment.

Task 2: Test the database.

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

1. From the **All services** blade, search and select **SQL databases** and ensure your new database was created. You may need to **Refresh** the page.

2. Click the **db1** entry representing the SQL database you created, and then click **Query editor (preview)**.

3. Login as **sqluser** with the password **Pa$$w0rd1234**.

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

5. From the **db1** blade, click **Overview**.

6. From the SQL server **Overview** blade, click **Set server firewall**.

7. Click **Add client IP** (top menu bar) to add the IP address referenced in the error. Be sure to **Save** your changes.

8. Return to your SQL database and the **Query Editor (Preview)** login page. Try to login again as **sqluser** with the password **Pa$$w0rd1234**. This time you should succeed. Note that it may take a couple of minutes for the new firewall rule to be deployed.

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

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

Note: To avoid additional costs, you can remove this resource group. Search for resource groups, click your resource group, and then click **Delete resource group**. Verify the name of the resource group and then click **Delete**. Monitor the **Notifications** to see how the delete is proceeding.