5.11 Azure Relational Database



This section will guide you to:

* Create a database and do CRUD operations on it

**Development Environment:**

* Windows 10
* Windows Azure cloud

This guide has three subsections, namely:

5.11.1 Creating a database

5.11.2 Performing CRUD operations on the database

5.11.3 Pushing the code to GitHub repositories

**Step 5.11.1:** Creating a database

* An Azure account has been enabled in your practice lab. Refer DotNet Lab guide: Phase 4 to learn how to use the practice lab.
* Login to the Azure Portal with the Azure/Microsoft credentials provided in the lab.
* From the portal page, search for SQL databases and click on it.
* From the SQL database, list page click on **Create SQL Database.**
* In the Create SQL Database for **Resource Group,** select an existing one or click **Create New.**
* For **Database Name,** enter a globally unique name using only lowercase alphabets, numbers or hyphen.
* For **Server,** click **Create New.**
* In the **New Server** popup, for **Server Name** enter a globally unique name using only lowercase alphabets, numbers or hyphen.
* Enter **admin login and password.**
* Select the location as **EAST US** or **West US.**
* Click **Ok.**
* For **Compute + storage** select **Basic**.
* Click **Next:Networking.**
* Click **Next:Additional Settings.**
* Click **Next:Tags.**
* Click **Review+Create.**
* In the Review page click **Create.**
* Once deployment is complete, click **Goto Resource.**

**Step 5.11.2:** Performing CRUD operations on the database

* From the SQL Database Overview page, click on **Query Editor** in the left bar.
* For **Login,** use the admin username and password that was created for this SQL database.
* In the **Query Pane,** enter the following SQL commands to test CRUD operations:

*CREATE TABLE dbo.Products*

*(ProductID int PRIMARY KEY NOT NULL,*

*ProductName varchar(25) NOT NULL,*

*Price money NULL,*

*ProductDescription varchar(max) NULL)*

*INSERT INTO dbo.Products (ProductName, Price, ProductDescription) values (‘My Product’, 190.00, ‘My Product Description’)*

*SELECT \* from dbo.Products where ProductName = ‘My Product’;*

*UPDATE dbo.Products set Price = 210.00 where ProductName = ‘My Product’;*

*DELETE from dbo.Products where ProductName = ‘My Product’*

*GO*

**Step 5.11.3:** Pushing the code to your GitHub repositories

Open your command prompt and navigate to the folder where you have created your files.

cd <folder path>

Initialize your repository using the following command:

git init

Add all the files to your git repository using the following command:

git add .

Commit the changes using the following command:

git commit -m “Changes have been committed.”

Push the files to the folder you created initially using the following command:

git push -u origin master