Lab 4

CPS 3330*01

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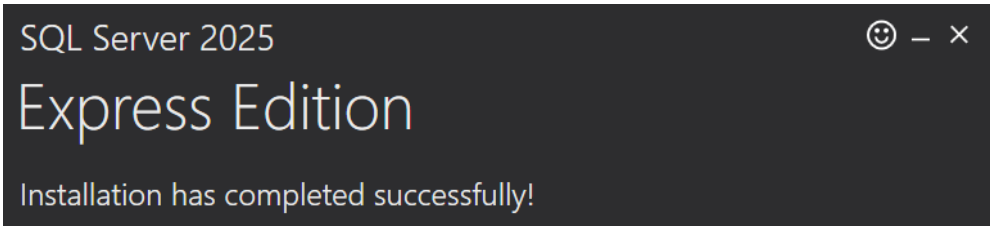
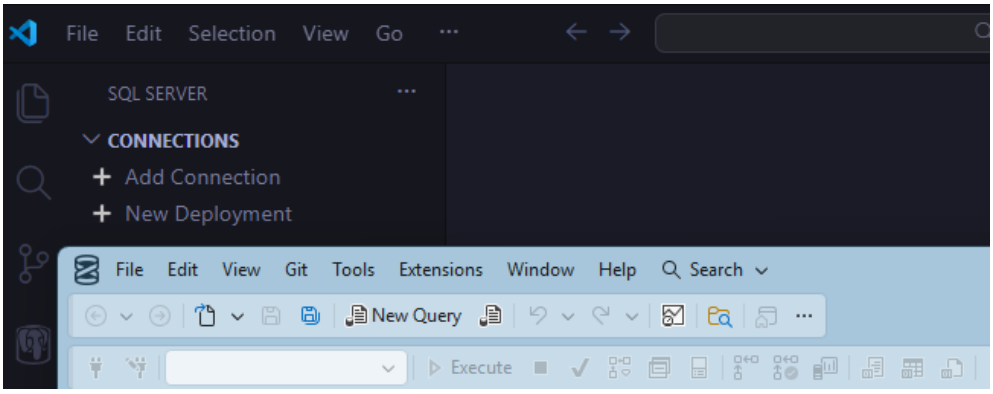
Github Link: https://github.com/PalmaL22/Lab4

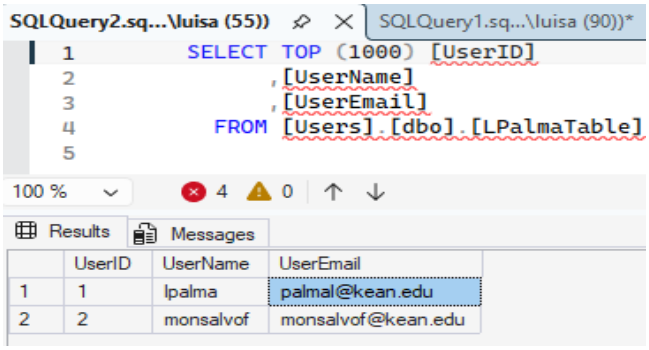
Task 1:



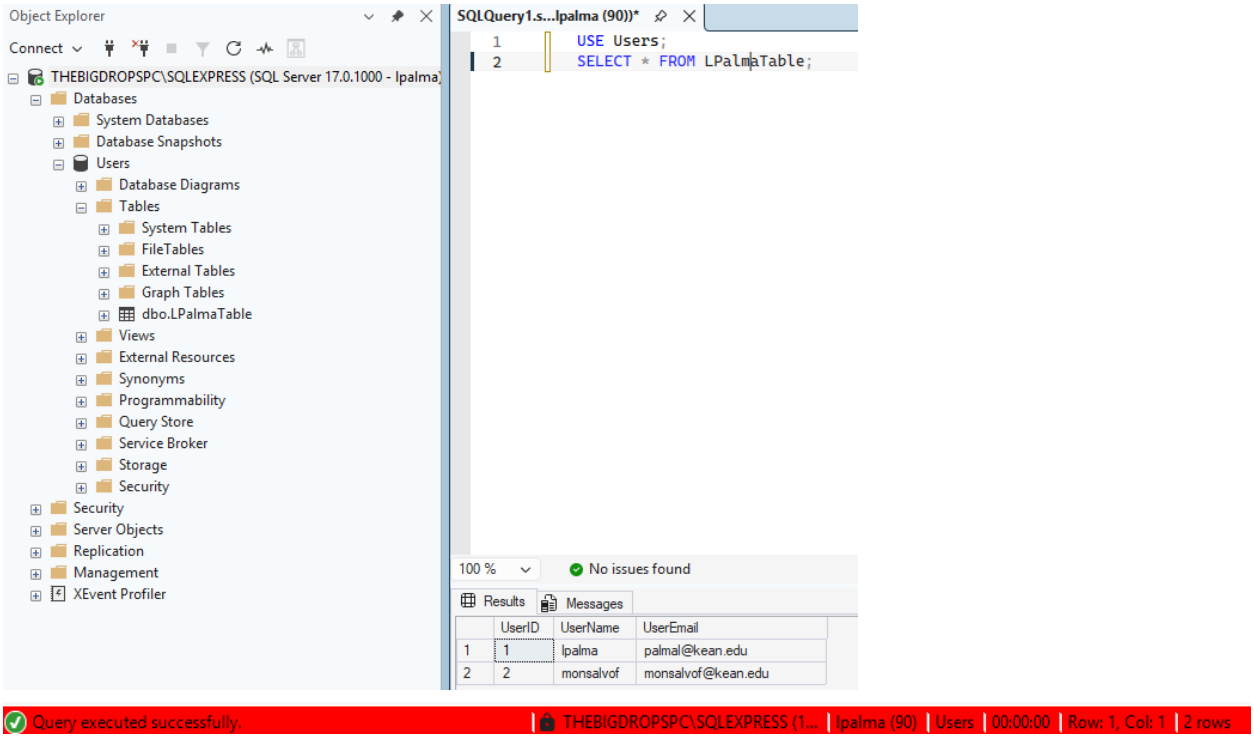
Task 2 – since azure data studio is being removed, we used the visual studio code extension to facilitate the download. Image also shows the installation of SSMS:



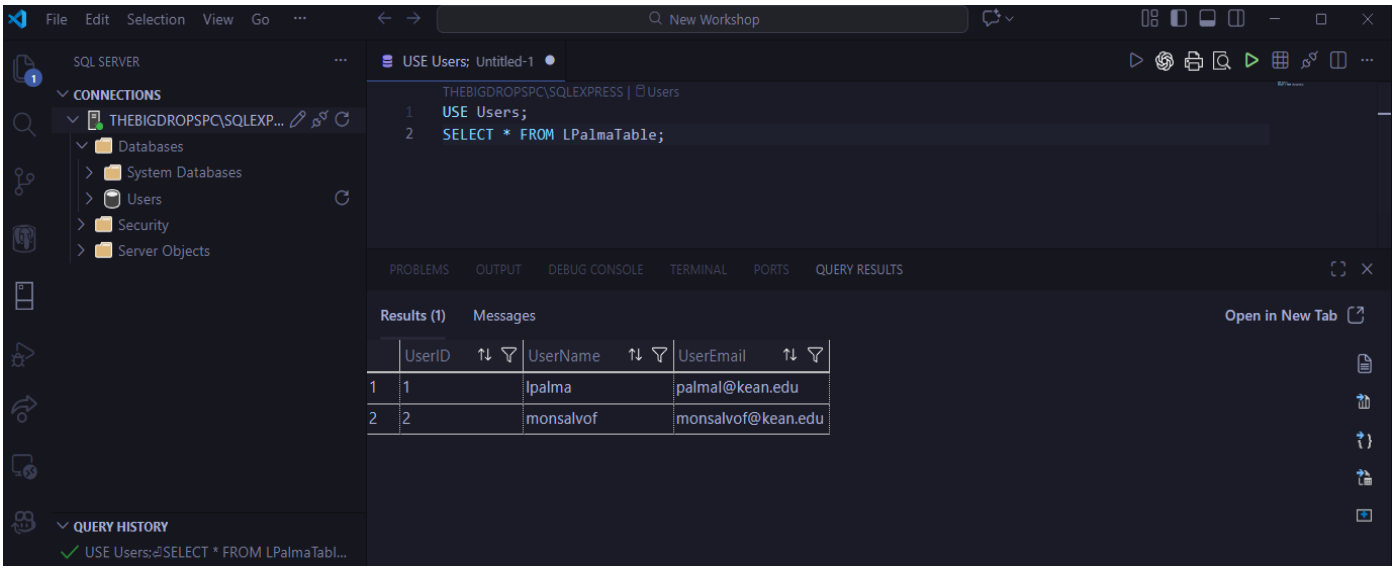
Task 3 – SQL Query showing our names on the created database:



Task 4 – Query test with the custom login that we created. Color red successful query message for the user “lpalma” which is our custom user



Task 5 – Testing SQL server connection on VS code with SQL server authentication on the lpalma user



Task 6 – VSC code picture and database proof (no VS picture because we used mac for most the assignment)

Program.cs

```
using System;
using Microsoft.Data.SqlClient;

class Program
{
    static void Main()
    {
        string connectionString =
            "Server=THEBIGDROPSPC\\SQLEXPRESS;Database=Users;User Id=lpalma;Password=1234;TrustServerCertificate=True;";

        using (SqlConnection connection = new SqlConnection(connectionString))
        {
            connection.Open();
            Console.WriteLine("Connected to SQL Server\n");

            string selectQuery = "SELECT * FROM LPalmaTable";
            SqlCommand selectCommand = new SqlCommand(selectQuery, connection);
            SqlDataReader reader = selectCommand.ExecuteReader();

            while (reader.Read())
            {
                Console.WriteLine($"{reader[0]} {reader[1]} {reader[2]}");
            }
            reader.Close();

            string maxQuery = "SELECT MAX(UserID) FROM LPalmaTable";
            SqlCommand maxCommand = new SqlCommand(maxQuery, connection);
            int maxId = (int)(maxCommand.ExecuteScalar() ?? 0);

            Console.WriteLine($"\nCurrent Max ID: {maxId}");

            int newId = maxId + 1;
            string insertQuery =
                "INSERT INTO LPalmaTable (UserID, UserName, UserEmail) VALUES (@id, @name, @email)";

            SqlCommand insertCommand = new SqlCommand(insertQuery, connection);
            insertCommand.Parameters.AddWithValue("@id", 3);
            insertCommand.Parameters.AddWithValue("@name", "Jo");
            insertCommand.Parameters.AddWithValue("@email", "jo@email.com");

            insertCommand.ExecuteNonQuery();

            Console.WriteLine($"Inserted Jo with ID = {newId}");
        }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS QUERY RESULTS

```
PS C:\Users\luisa\OneDrive\Documents\New Workshop\Lab4Net> dotnet run
Connected to SQL Server

1 lpalma palmal@kean.edu
2 monsalvof monsalvof@kean.edu

Current Max ID: 2
Inserted Jo with ID = 3
```

SQLQuery2.sq...lpalma (68)) SQLQuery1.sq...(lpalma (51))*

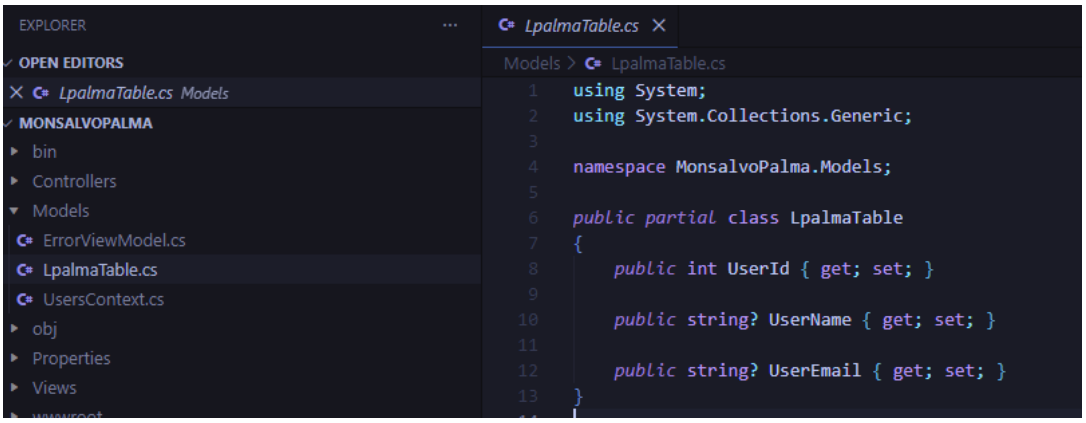
```
SELECT TOP (1000) [UserID]
      ,[UserName]
      ,[UserEmail]
  FROM [Users].[dbo].[LPalmaTable]
```

100 % No issues found

Results Messages

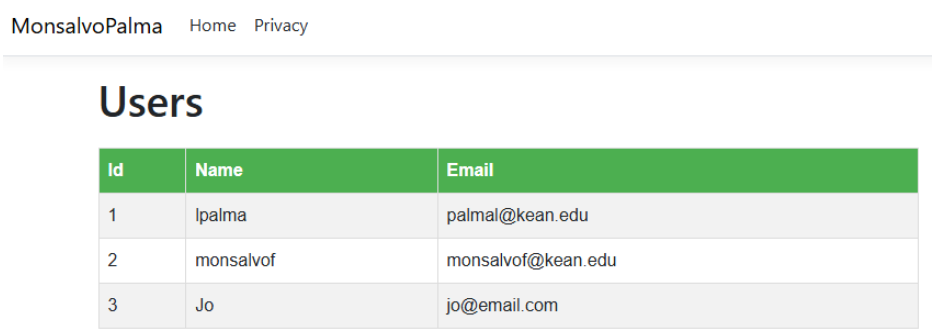
	UserID	UserName	UserEmail
1	1	lpalma	palmal@kean.edu
2	2	monsalvof	monsalvof@kean.edu
3	3	Jo	jo@email.com

Scaffold command to create model classes and dbcontext from an existing database:

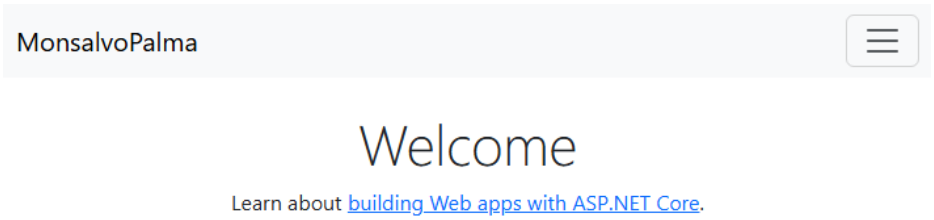


Task 7 – MVC Creation and progress:

Original design:



Front page:



Users page: