

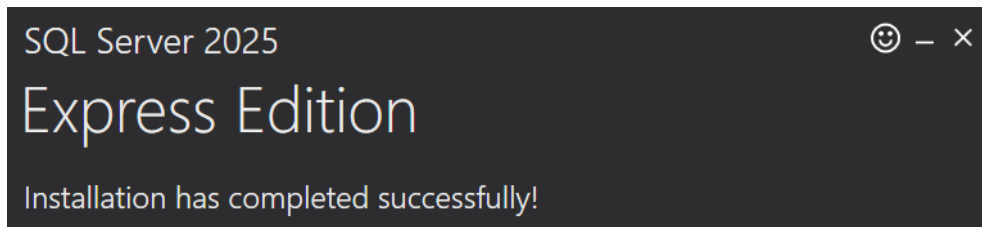
Lab 4

CPS 3330*01

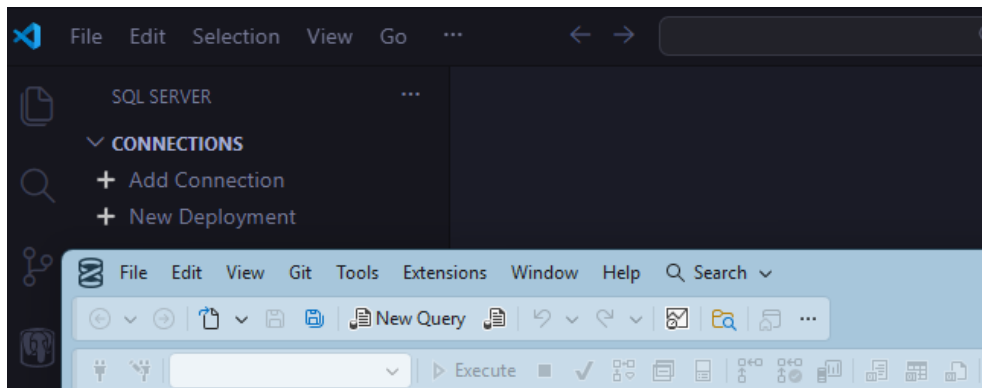
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Github Link: <https://github.com/PalmaL22/Lab4>

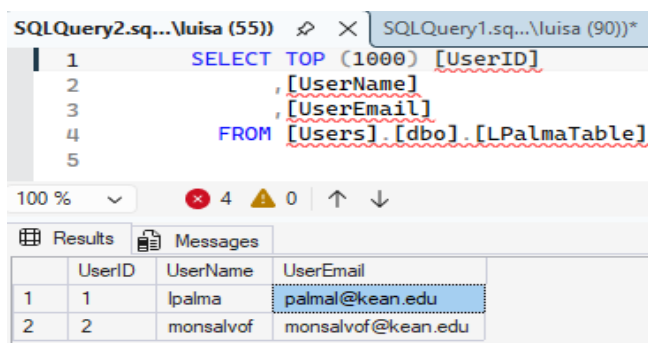
Task 1:



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

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'THEBIGDROPSPC\SQLEXPRESS (SQL Server 17.0.1000 - lpalma)'. The main pane shows a query window with the following SQL code:

```
1 USE Users;  
2 SELECT * FROM LPalmaTable;
```

The query results are displayed in a table with the following data:

	UserID	UserName	UserEmail
1	1	lpalma	palma@kean.edu
2	2	monsalfvof	monsalfvof@kean.edu

A red status bar at the bottom indicates: "Query executed successfully. THEBIGDROPSPC\SQLEXPRESS (1... lpalma (90) Users 00:00:00 Row: 1, Col: 1 2 rows".

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

The screenshot shows the Visual Studio Code interface with the SQL Server extension. The left sidebar shows the 'CONNECTIONS' pane with 'THEBIGDROPSPC\SQLEXPRESS' selected. The main editor shows a query window with the following SQL code:

```
1 USE Users;  
2 SELECT * FROM LPalmaTable;
```

The query results are displayed in a table with the following data:

	UserID	UserName	UserEmail
1	1	lpalma	palma@kean.edu
2	2	monsalfvof	monsalfvof@kean.edu

The bottom status bar shows: "USE Users; SELECT * FROM LPalmaTabl...".

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

The screenshot shows a Visual Studio Code editor with a C# file named `Program.cs`. The code connects to a SQL Server instance, queries the `LPalmaTable` for all records, and then inserts a new record with the ID of the last record plus one. The output window shows the execution results, including the current maximum ID and the newly inserted record.

```
1 using System;
2 using Microsoft.Data.SqlClient;
3
4 class Program
5 {
6     static void Main()
7     {
8         string connectionString =
9             "Server=THEBIGDROPSPC\\SQLEXPRESS;Database=Users;User Id=lpalma;Password=1234;TrustServerCertificate=True;";
10
11         using (SqlConnection connection = new SqlConnection(connectionString))
12         {
13             connection.Open();
14             Console.WriteLine("Connected to SQL Server\n");
15
16             string selectQuery = "SELECT * FROM LPalmaTable";
17             SqlCommand selectCommand = new SqlCommand(selectQuery, connection);
18             SqlDataReader reader = selectCommand.ExecuteReader();
19
20             while (reader.Read())
21             {
22                 Console.WriteLine($"{reader[0]} {reader[1]} {reader[2]}");
23             }
24             reader.Close();
25
26             string maxQuery = "SELECT MAX(UserID) FROM LPalmaTable";
27             SqlCommand maxCommand = new SqlCommand(maxQuery, connection);
28             int maxId = (int)(maxCommand.ExecuteScalar() ?? 0);
29
30             Console.WriteLine($"Current Max ID: {maxId}");
31
32             int newId = maxId + 1;
33             string insertQuery =
34                 "INSERT INTO LPalmaTable (UserID, UserName, UserEmail) VALUES (@id, @name, @email)";
35
36             SqlCommand insertCommand = new SqlCommand(insertQuery, connection);
37             insertCommand.Parameters.AddWithValue("@id", 3);
38             insertCommand.Parameters.AddWithValue("@name", "Jo");
39             insertCommand.Parameters.AddWithValue("@email", "jo@email.com");
40
41             insertCommand.ExecuteNonQuery();
42
43             Console.WriteLine($"Inserted Jo with ID = {newId}");
44         }
45     }
46 }
```

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 palma@kean.edu
2 monsalvof monsalvof@kean.edu

Current Max ID: 2
Inserted Jo with ID = 3

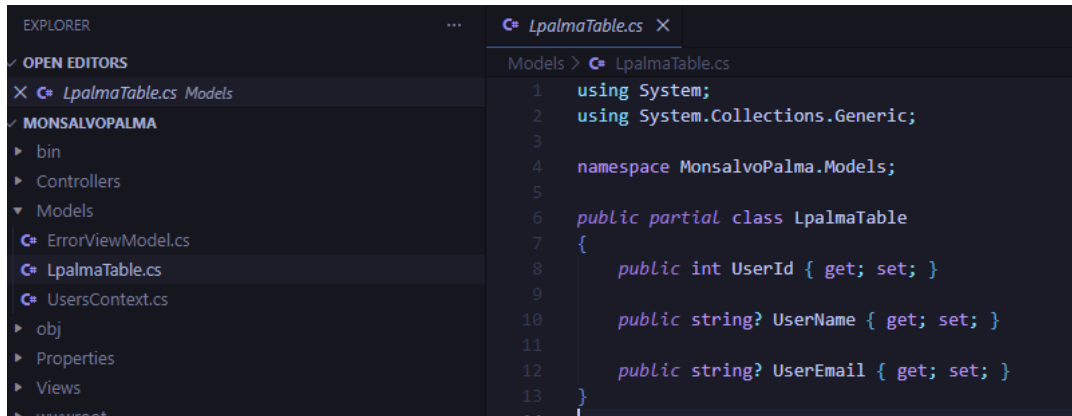
SQLQuery2.sq...lpalma (68) SQLQuery1.sq...(lpalma (51))*

```
1 SELECT TOP (1000) [UserID]
2 , [UserName]
3 , [UserEmail]
4 FROM [Users].[dbo].[LPalmaTable]
5
```

100 % No issues found

	UserID	UserName	UserEmail
1	1	lpalma	palma@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:



```
1 using System;
2 using System.Collections.Generic;
3
4 namespace MonsalvoPalma.Models;
5
6 public partial class LpalmaTable
7 {
8     public int UserId { get; set; }
9
10    public string? UserName { get; set; }
11
12    public string? UserEmail { get; set; }
13 }
```

Task 7 – MVC Creation and progress:

Original design:

MonsalvoPalma Home Privacy

Users

Id	Name	Email
1	lpalma	palmal@kean.edu
2	monsalfvof	monsalfvof@kean.edu
3	Jo	jo@email.com

Front page:

MonsalvoPalma



Welcome

Learn about [building Web apps with ASP.NET Core](#).

Users page:

MonsalvoPalma



Users

[Website](#)

Id	Name	Email	Actions
1	lpalma	palmal@kean.edu	Details Edit Remove
2	monsalfvof	monsalfvof@kean.edu	Details Edit Remove
3	Jo	jo@email.com	Details Edit Remove