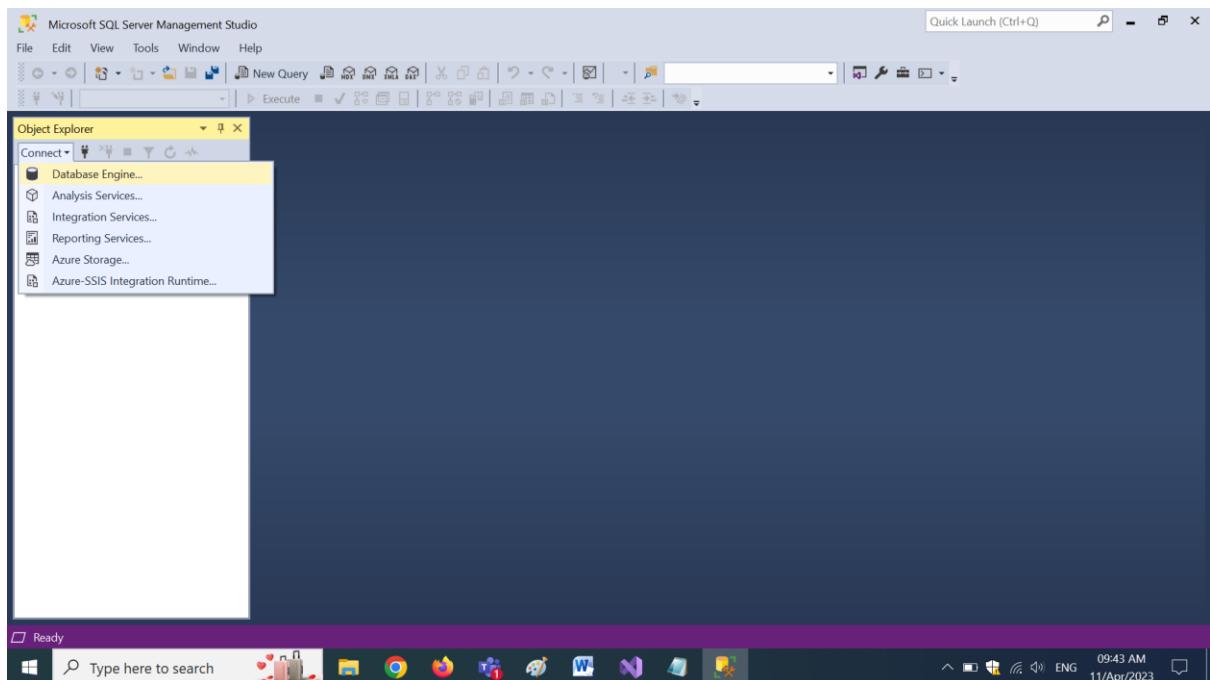
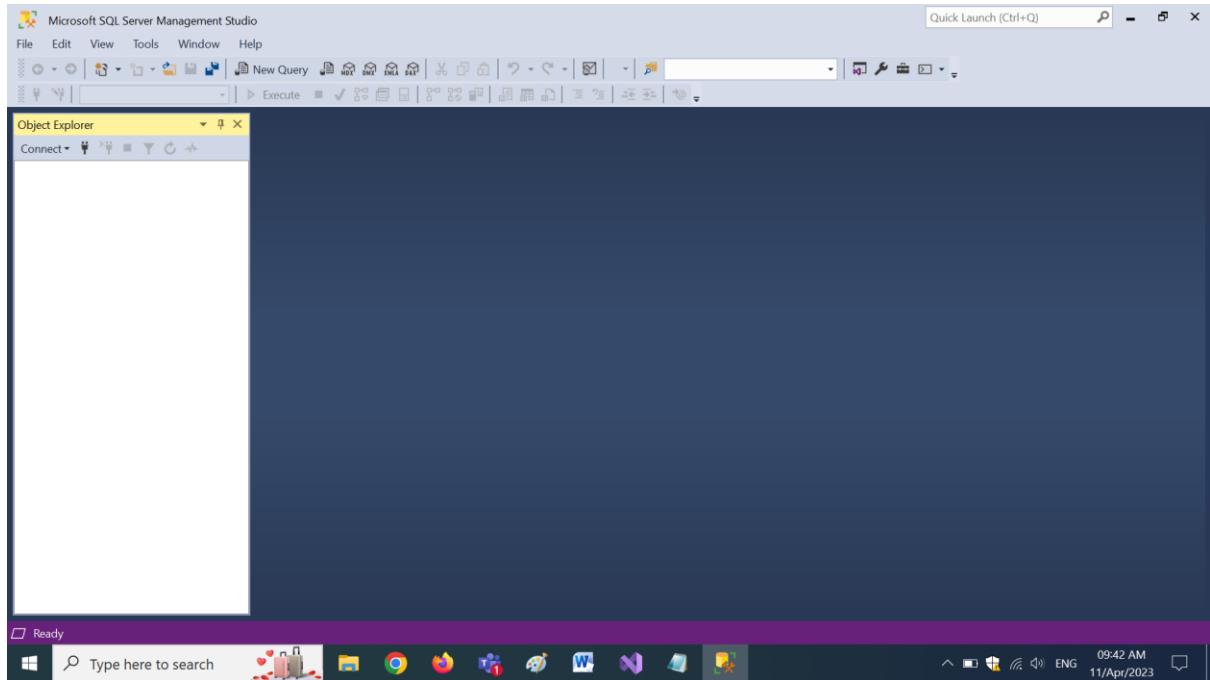


LAB SHEET 10

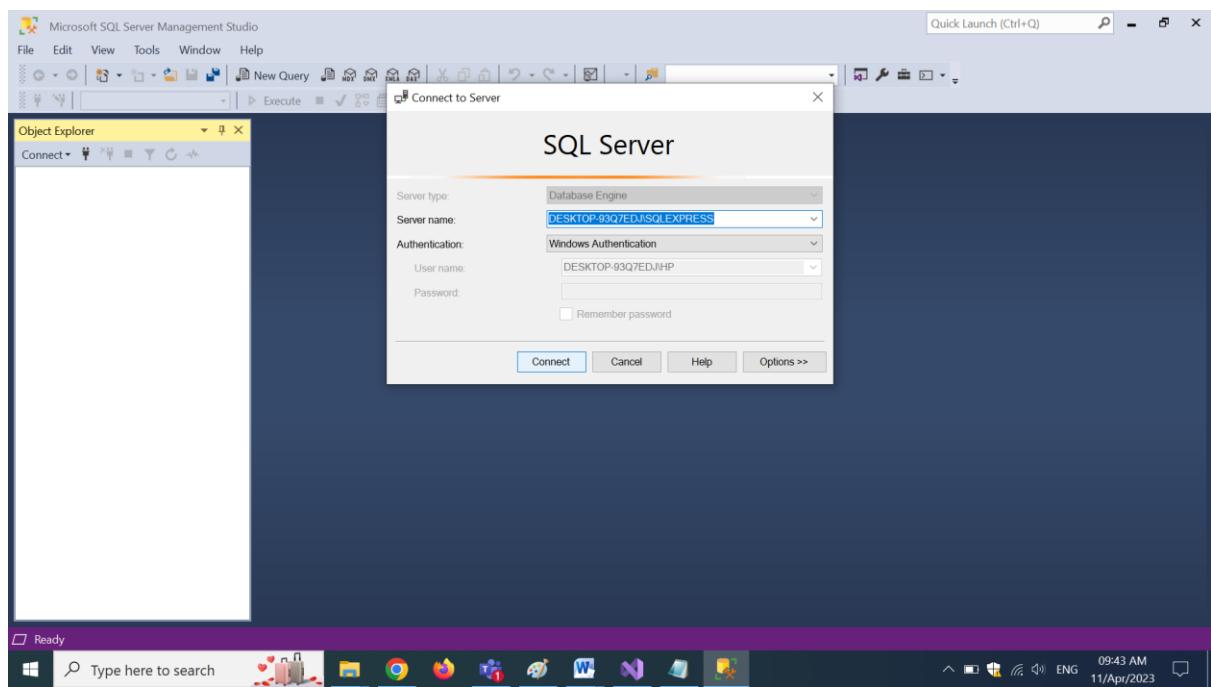
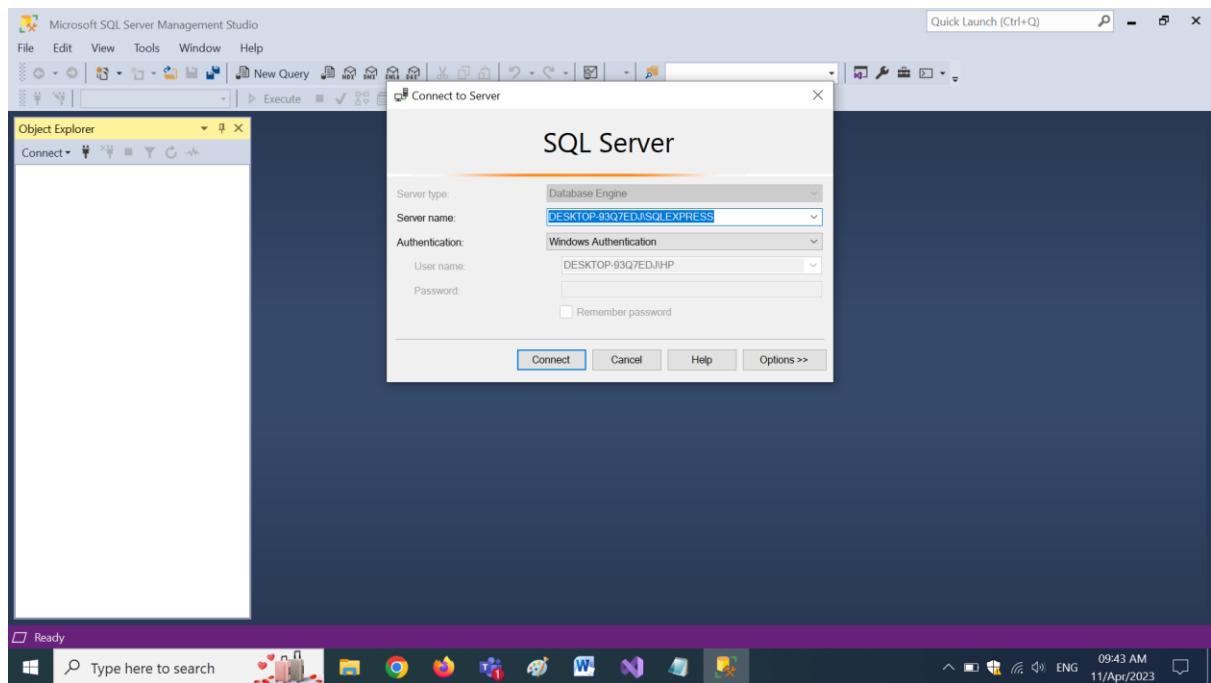
Data Base Connectivity using ADO.NET

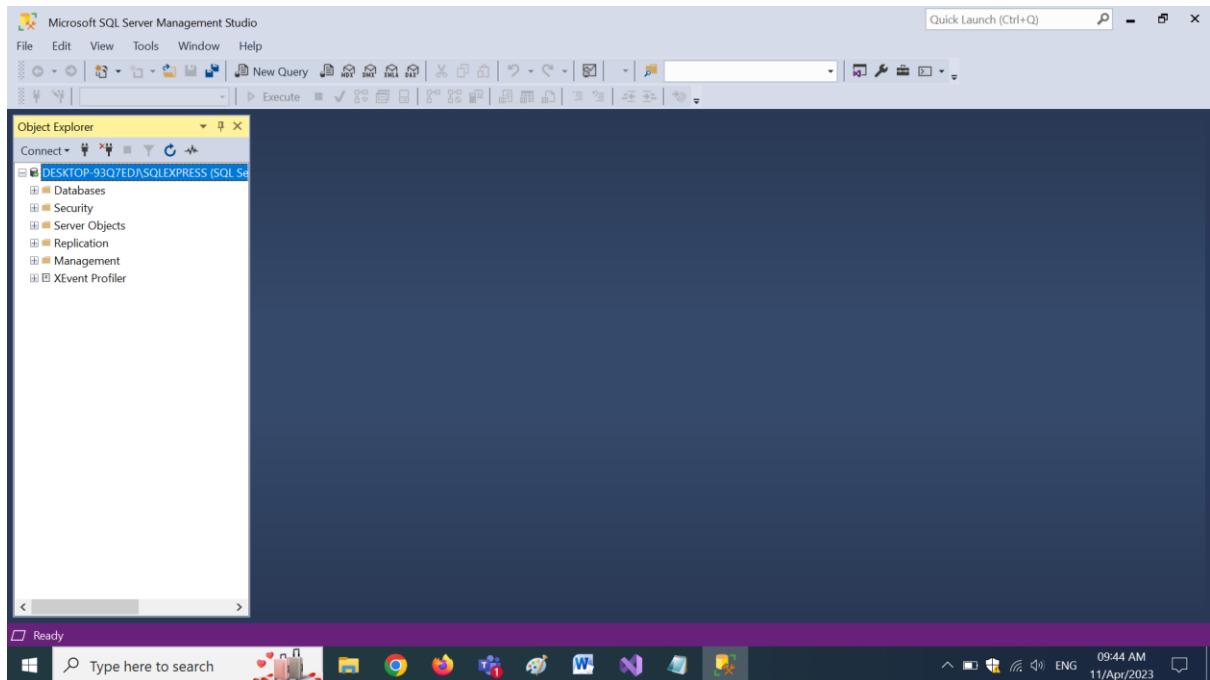
Part I: Steps for database Connectivity

1. OPEN ==> SQL SERVER MANAGEMENT STUDIO. CLICK ON CONNECT

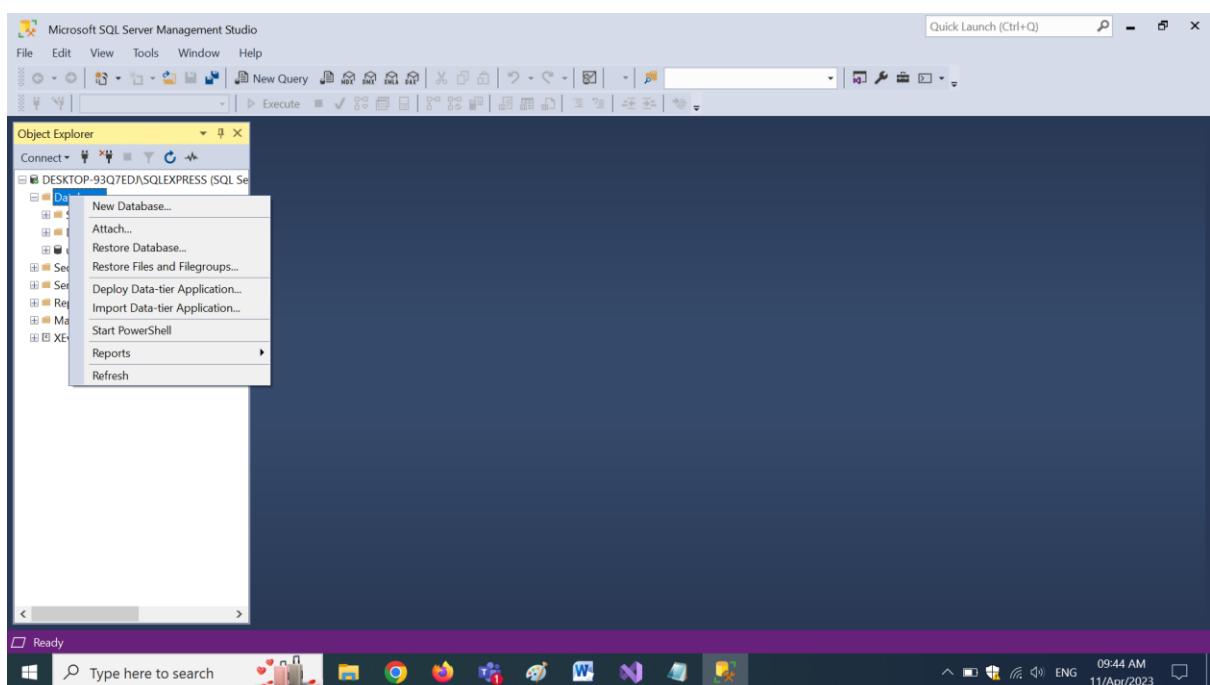


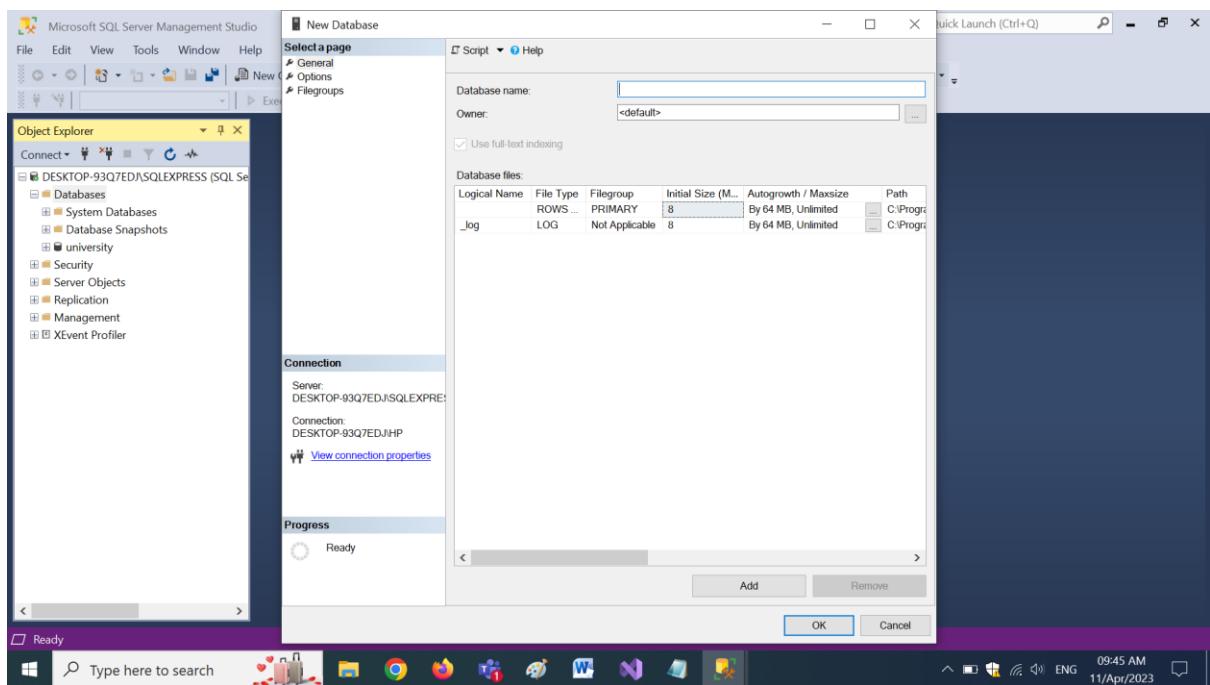
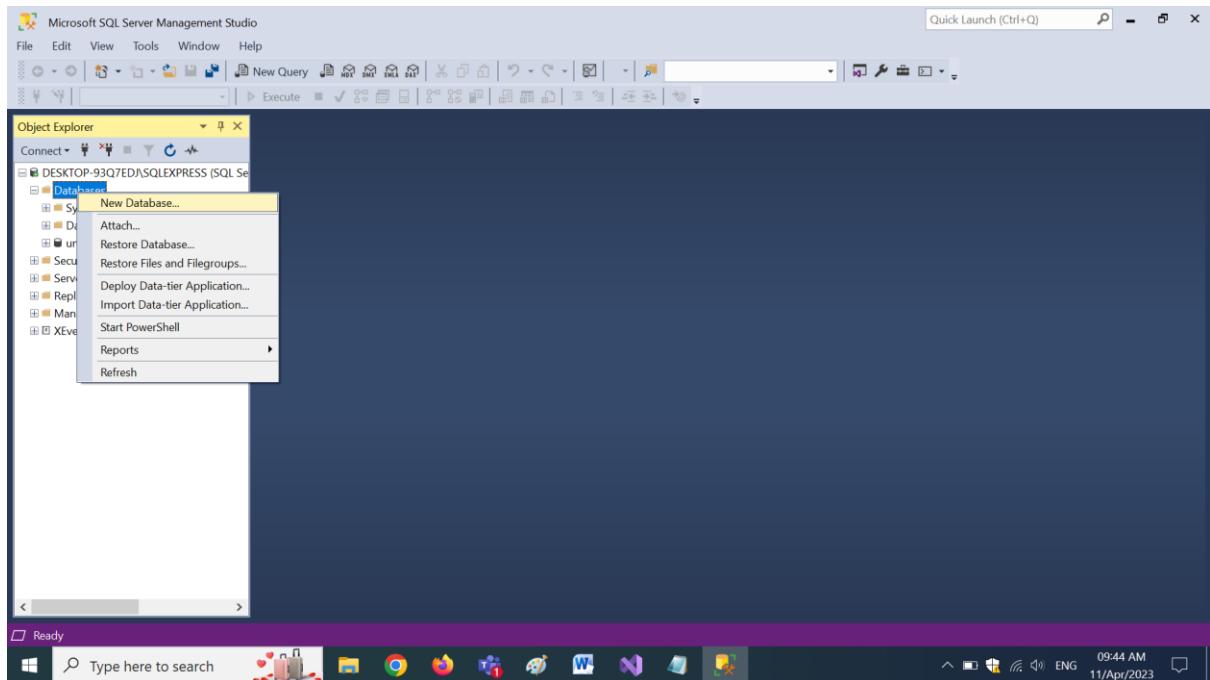
2. The screen appears as follows: Copy the server's name from this dialog box



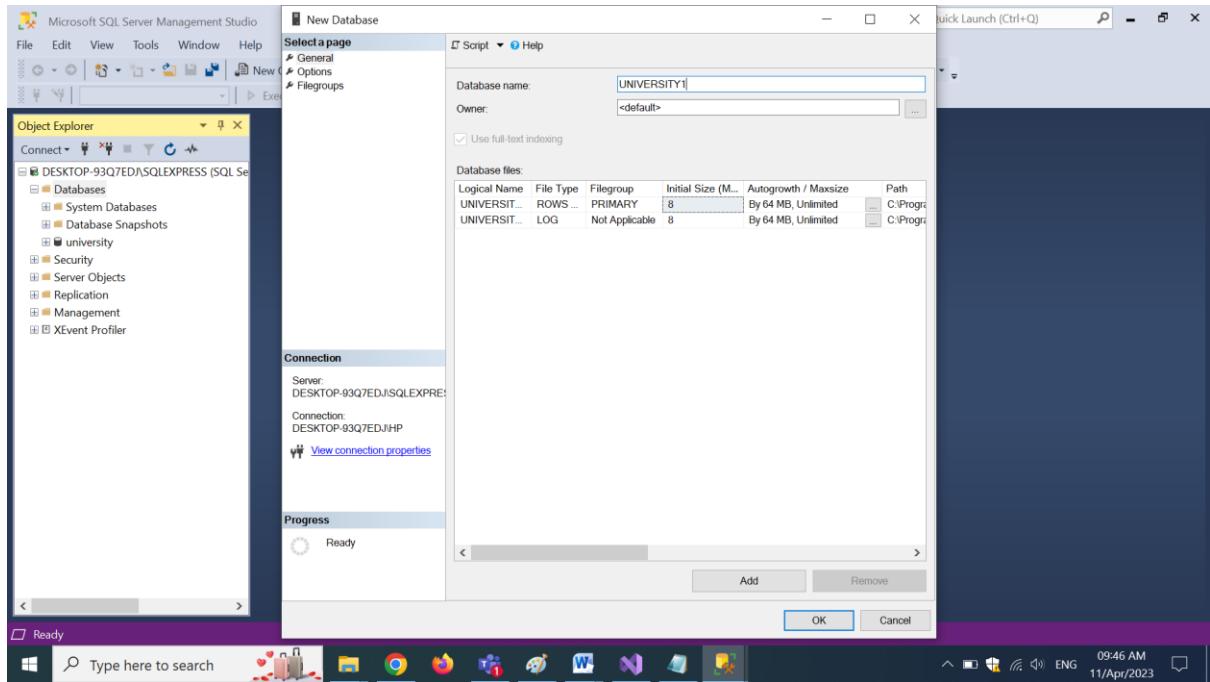


3. Now you have to create new Database, Right Click on Database and follow the steps as given below

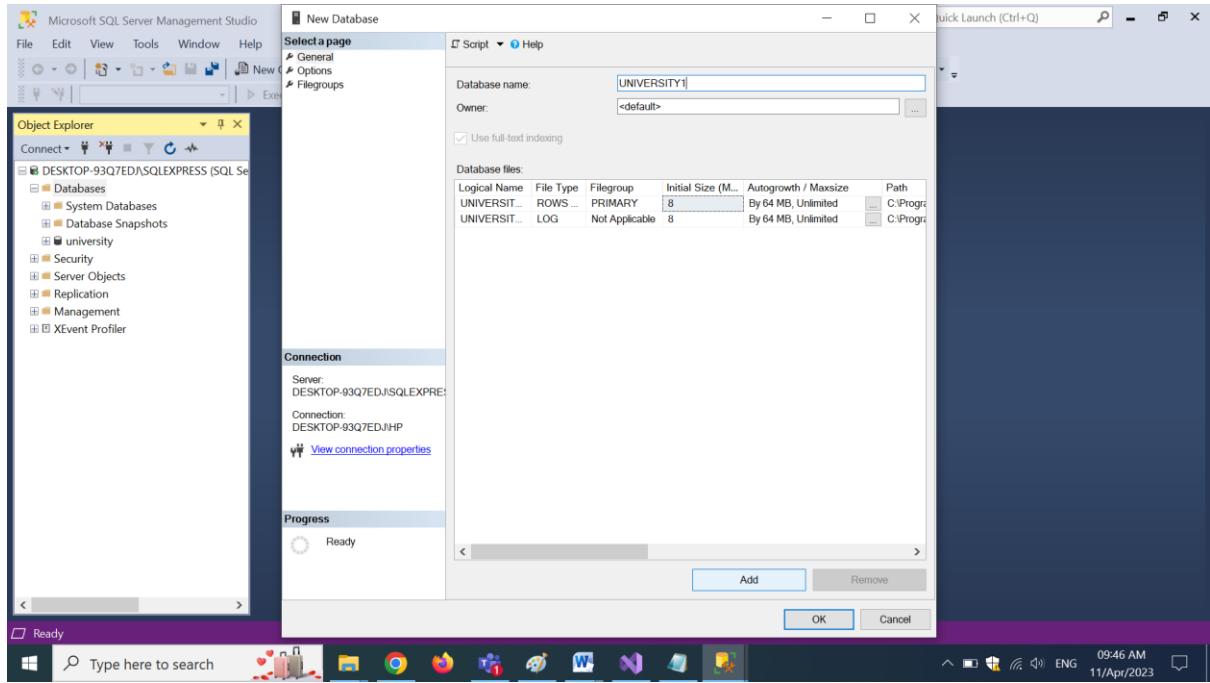




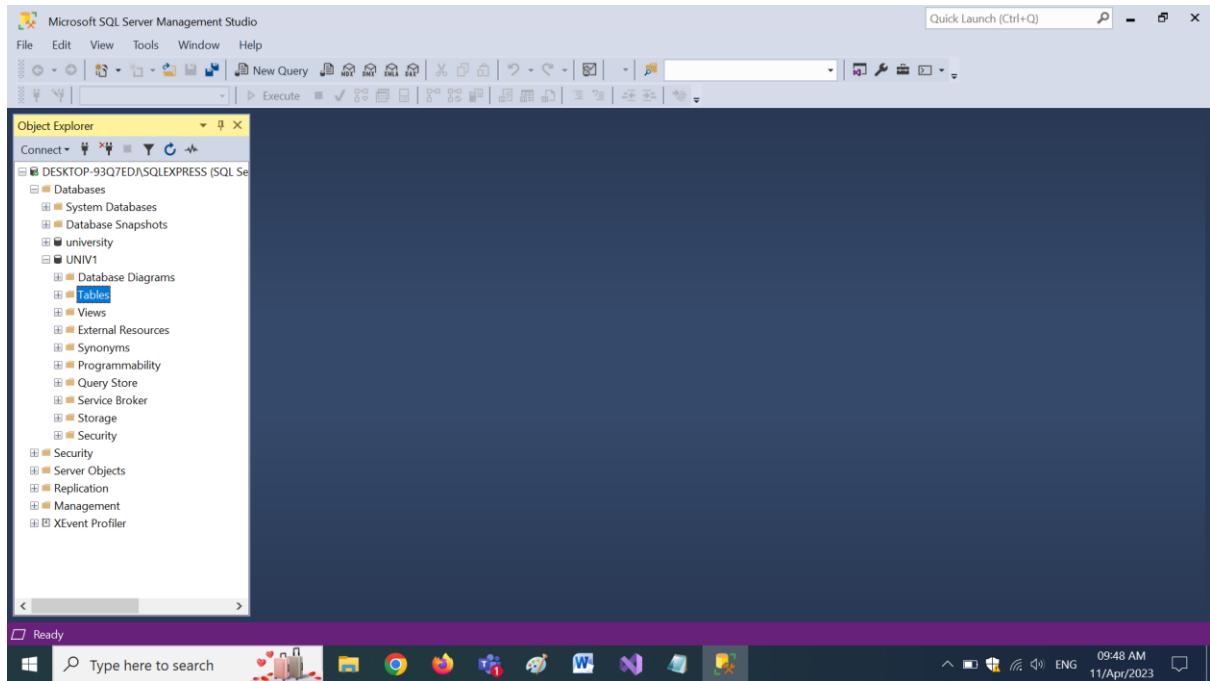
4. Write the Database name University. Then Click OK button



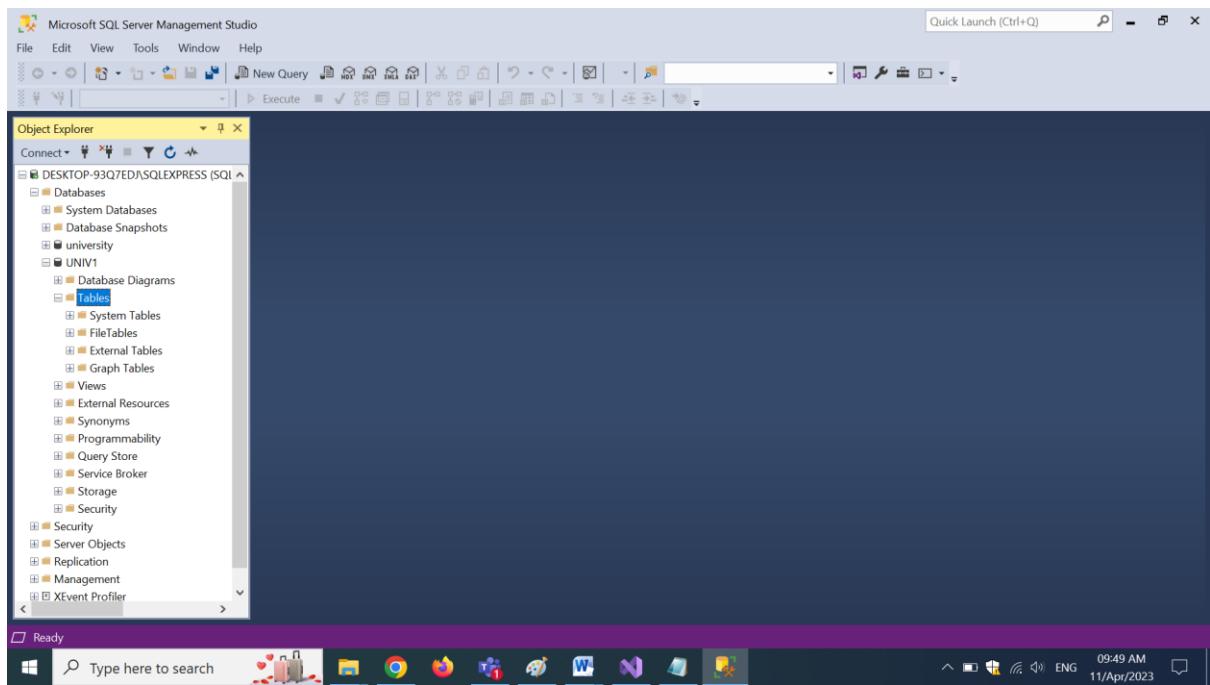
5. Database creation is successful. You can see your database in the right pane.



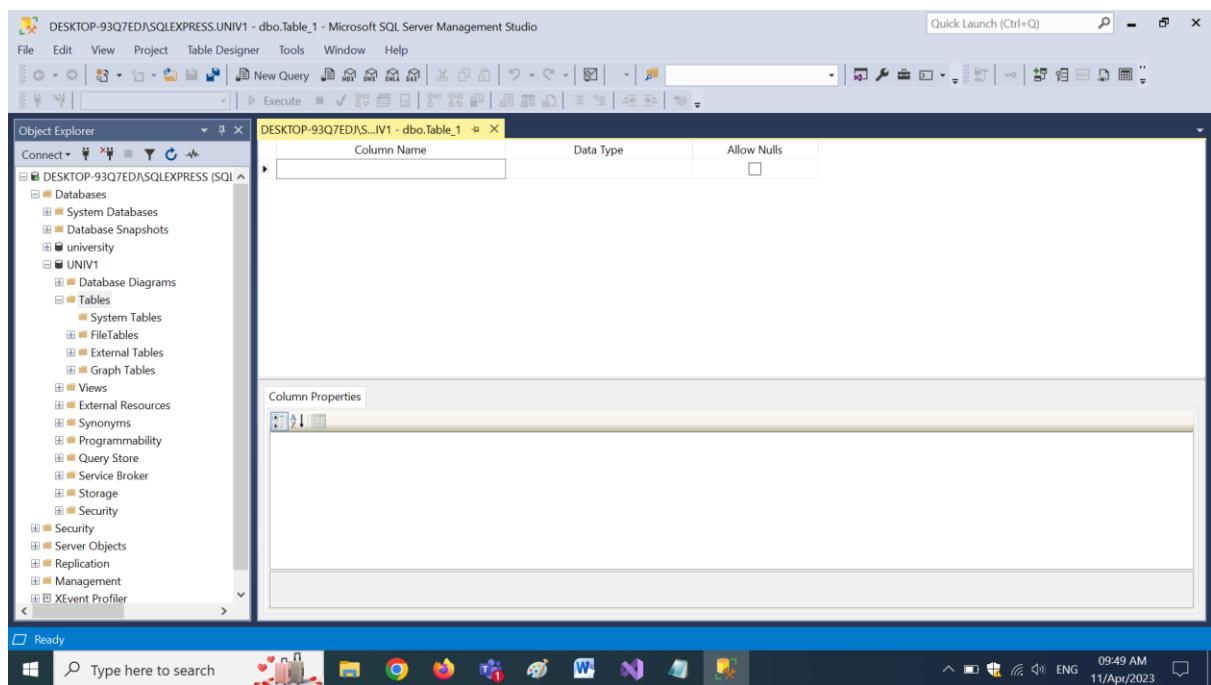
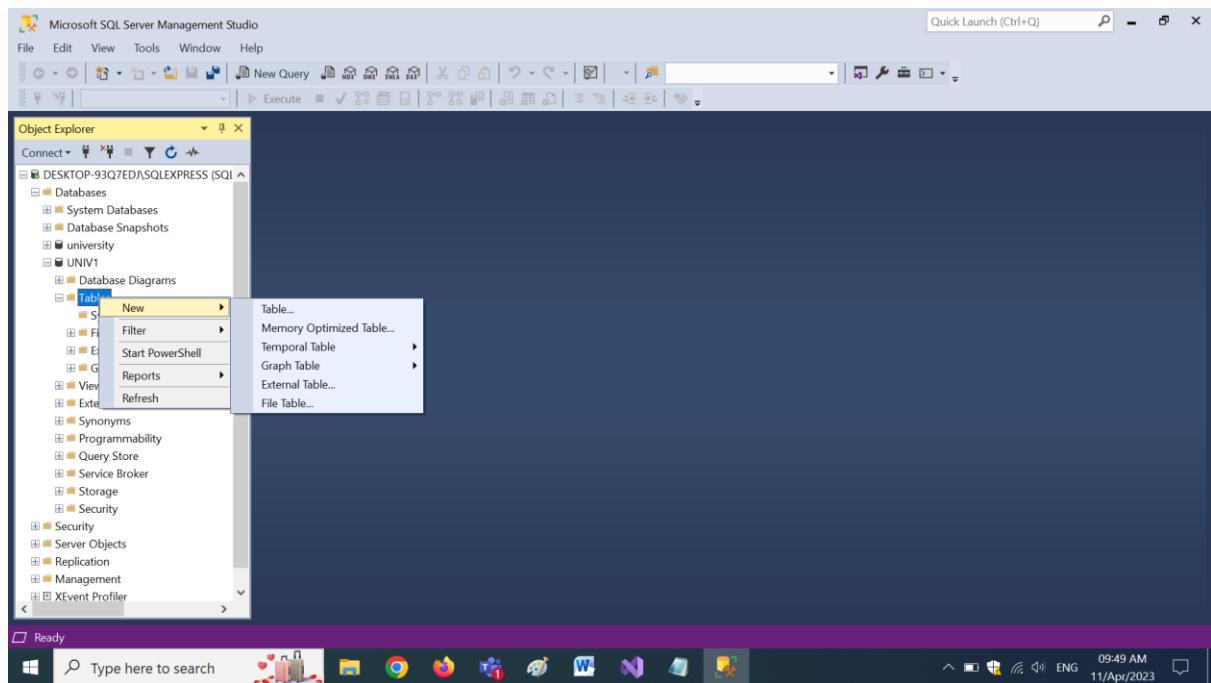
6. Then you have to create table in the database University. Expand University, you can view Tables in that.



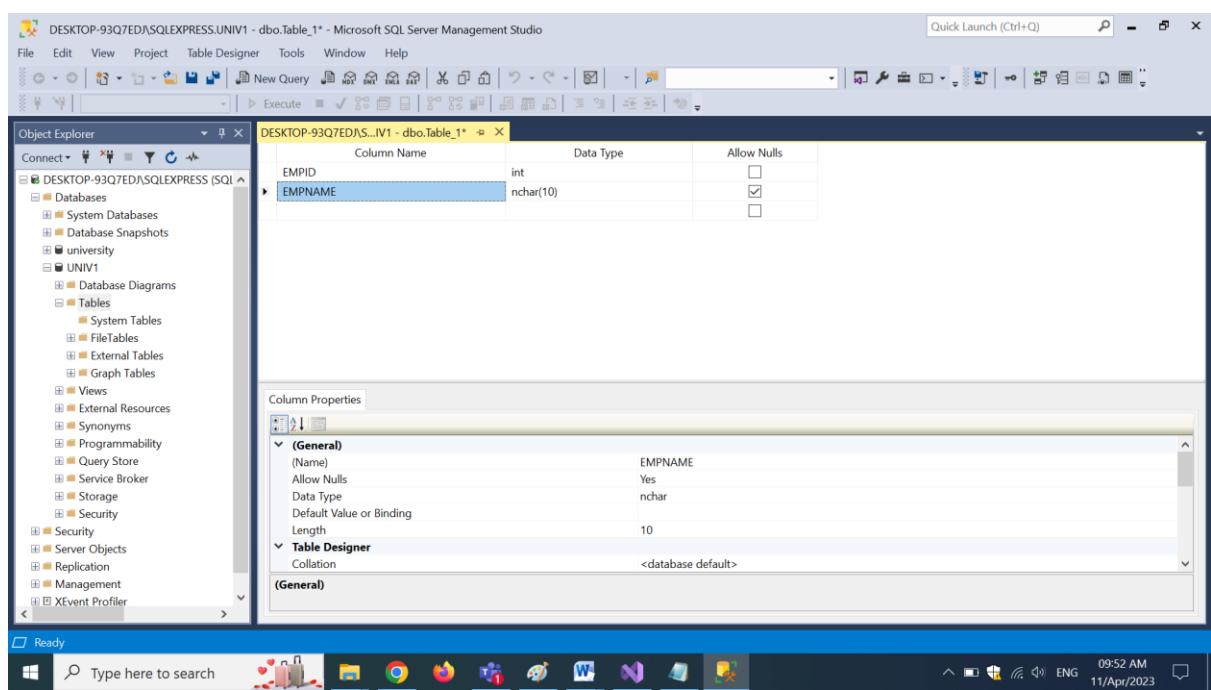
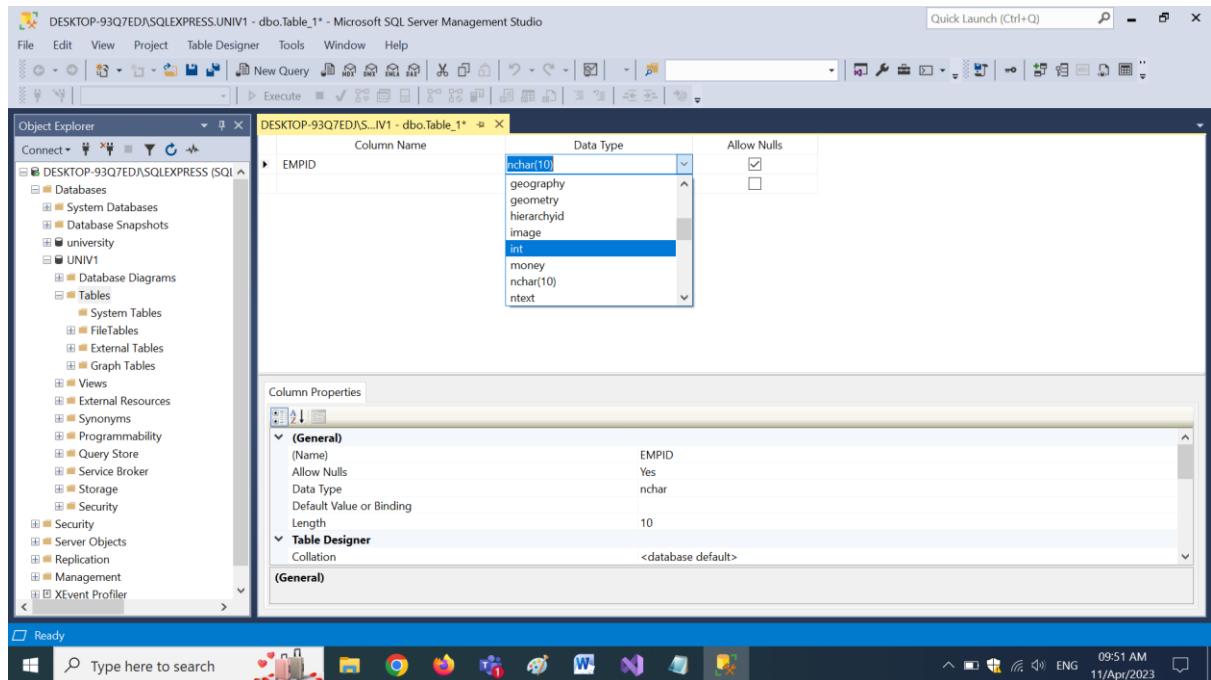
6.1 Expand the tables :



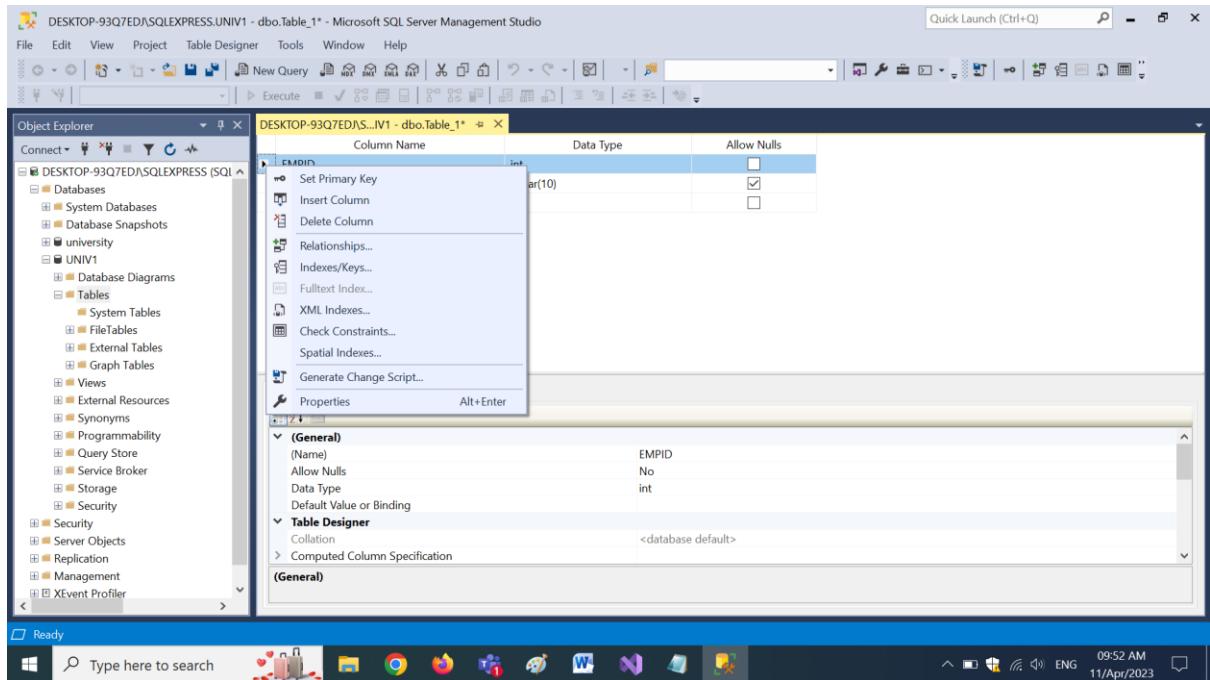
7. For Creating a new Table, RIGHT CLICK → TABLE→ NEW TABLE



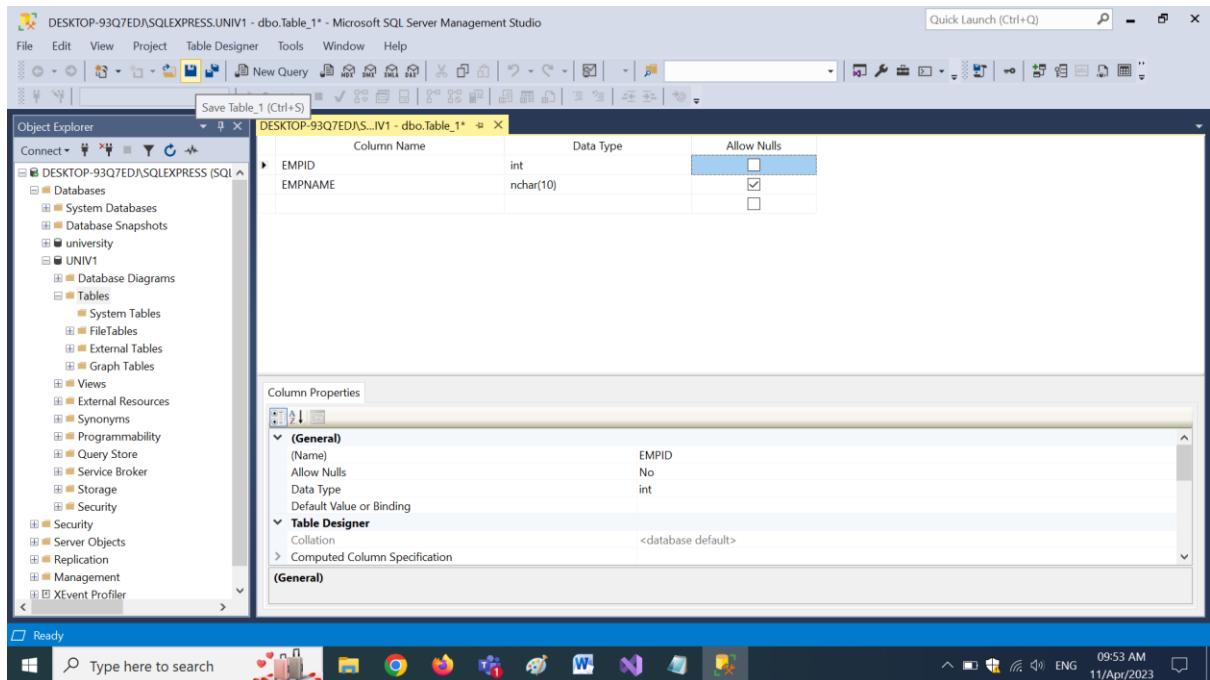
8. ADD COLUMN NAME (EMPID) , TYPE(INT). Empname nchar data also.

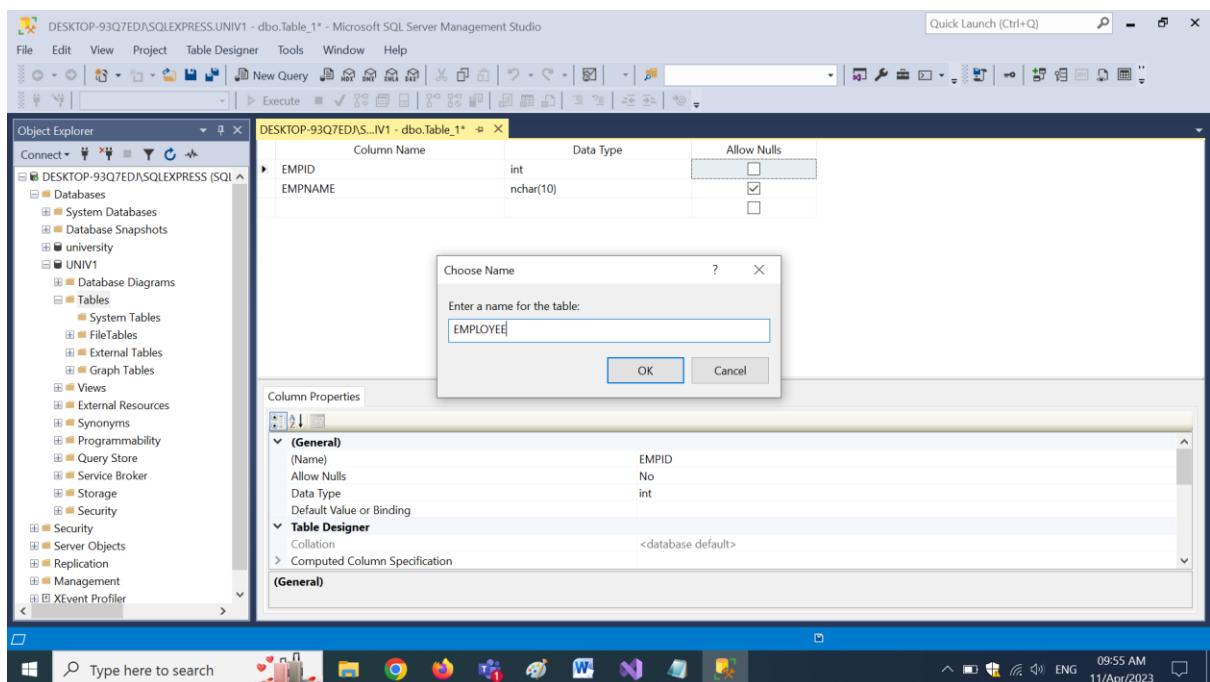
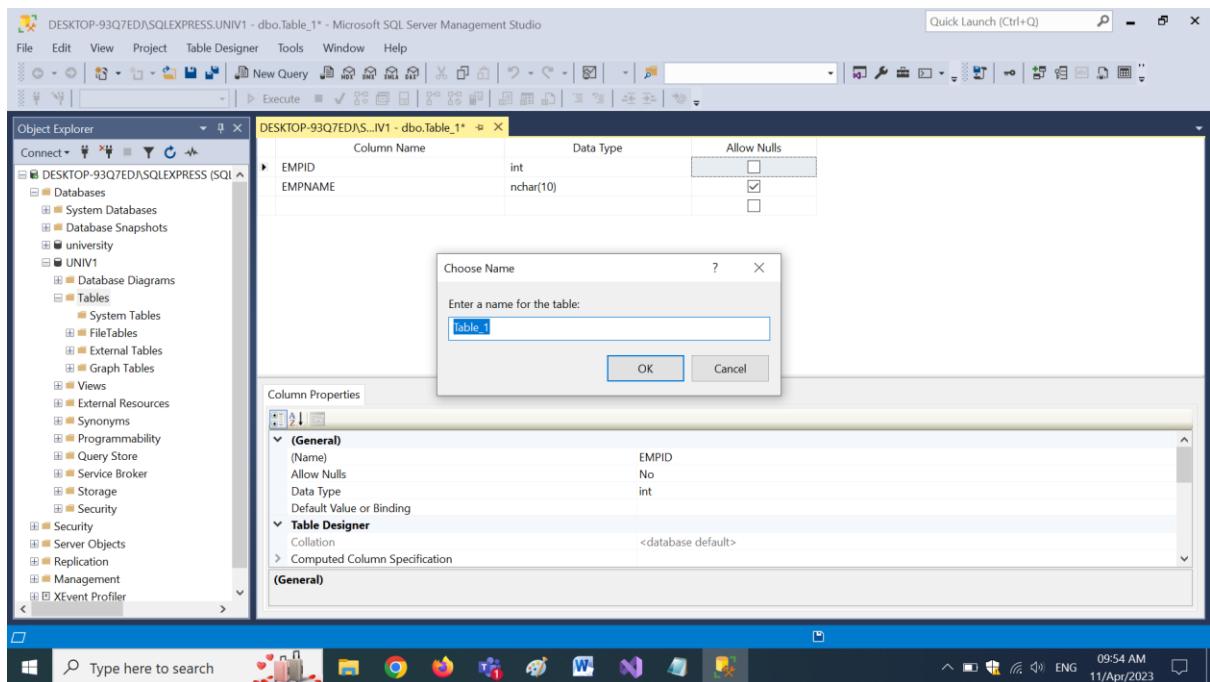


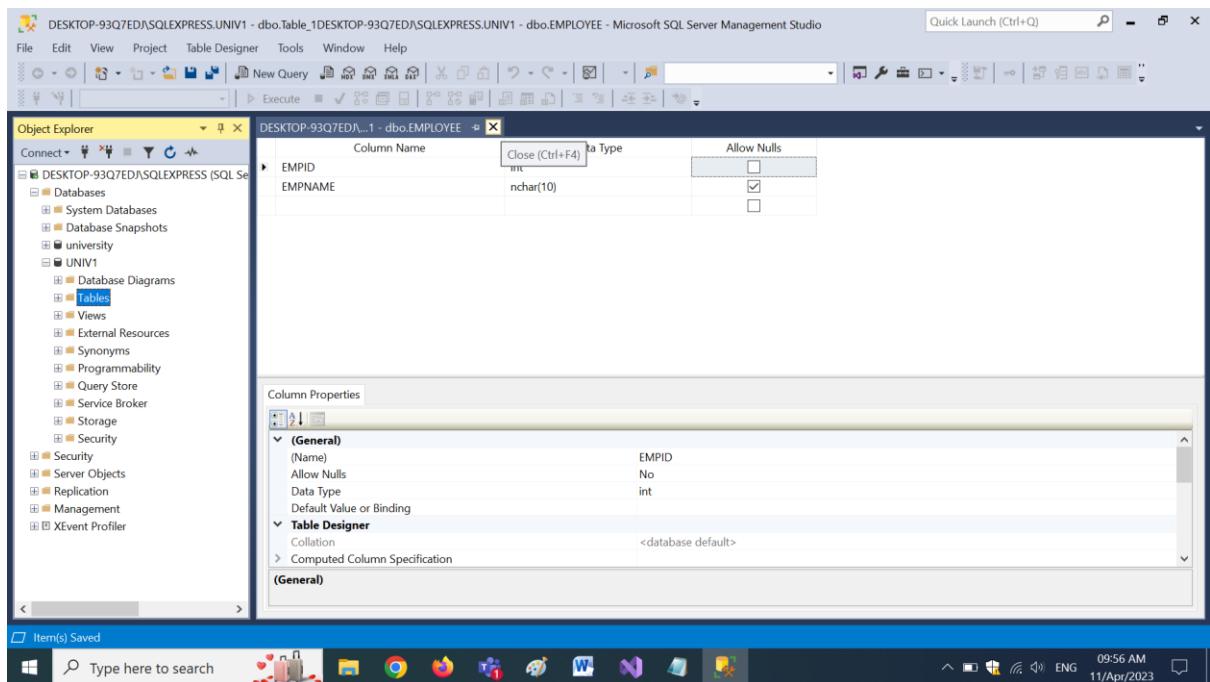
9. Right click on left corner (of respective column) and set as primary key



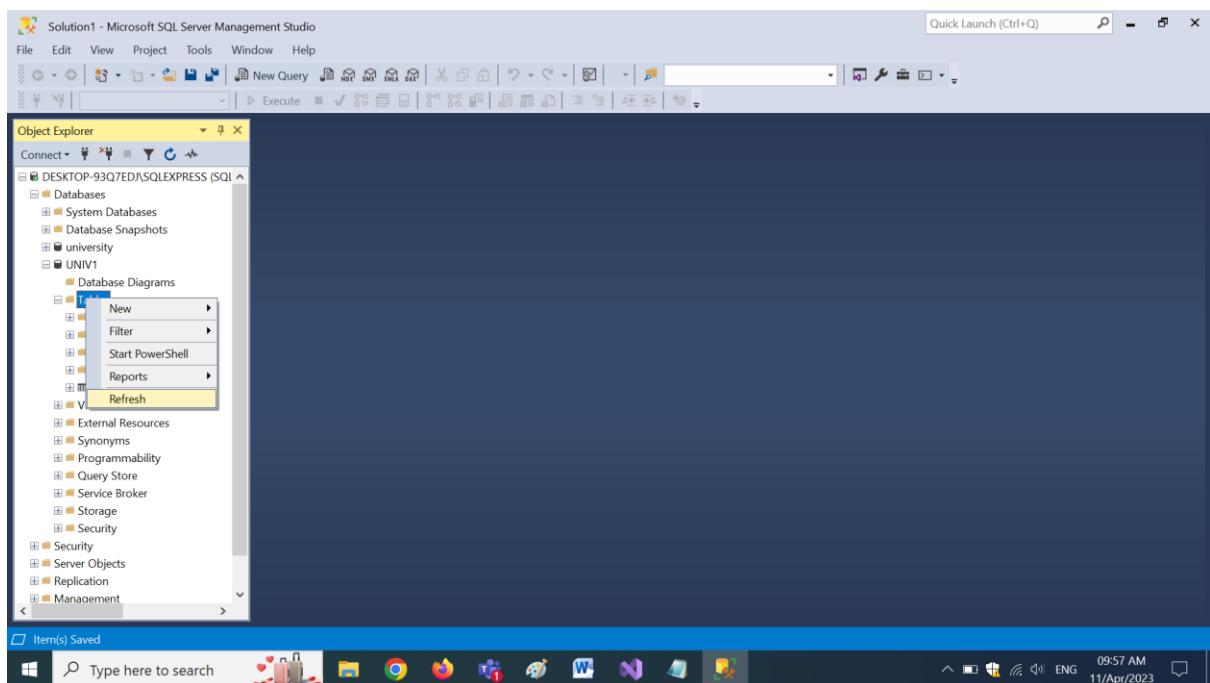
10. Now Table is ready. SAVE the table now and set Table name as Employee and click OK button

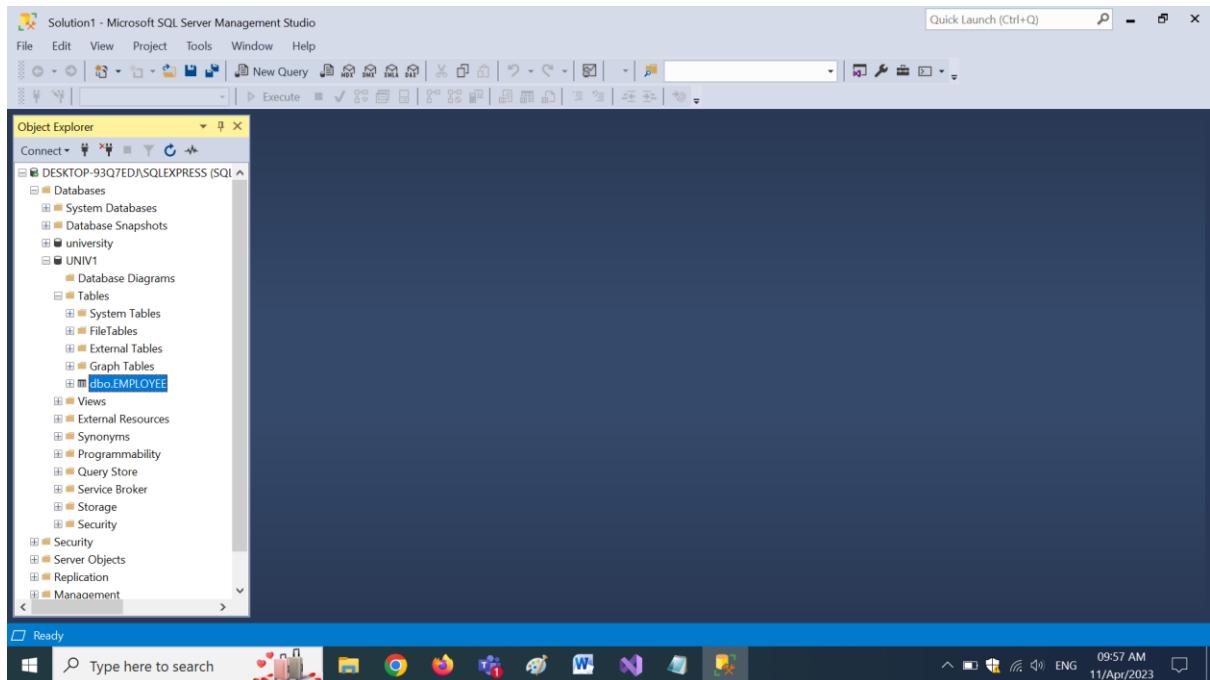




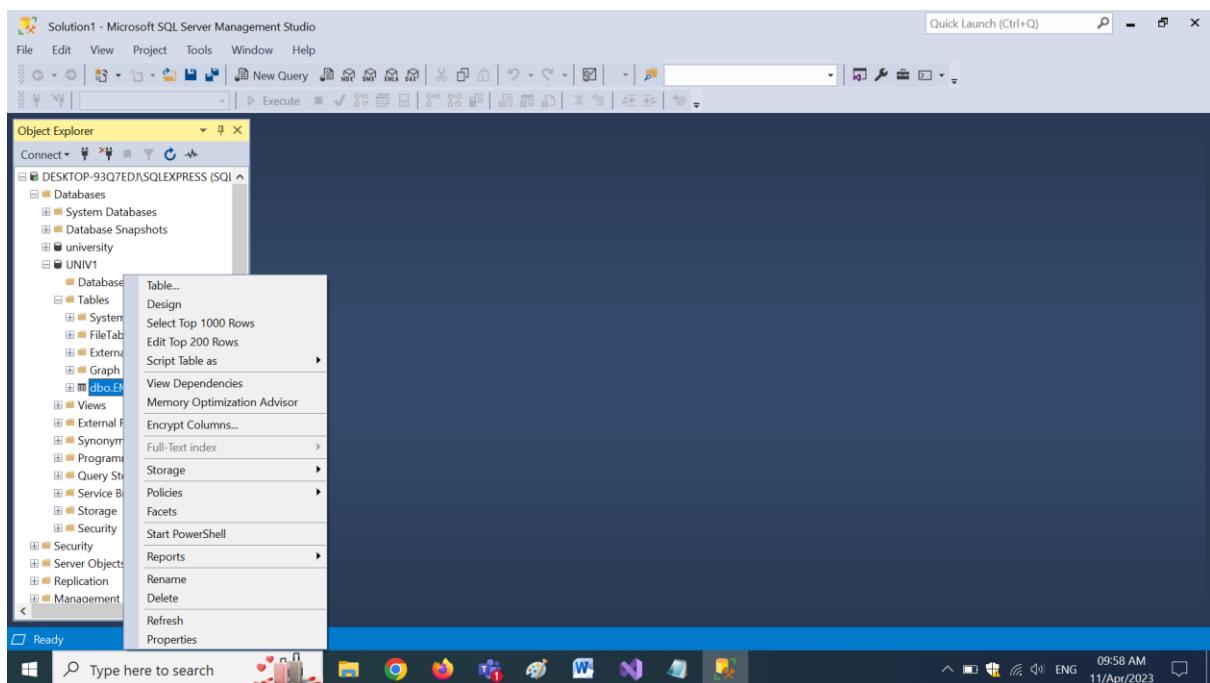


11. Right click on Tables and Click on Refresh. You can view your table employee.

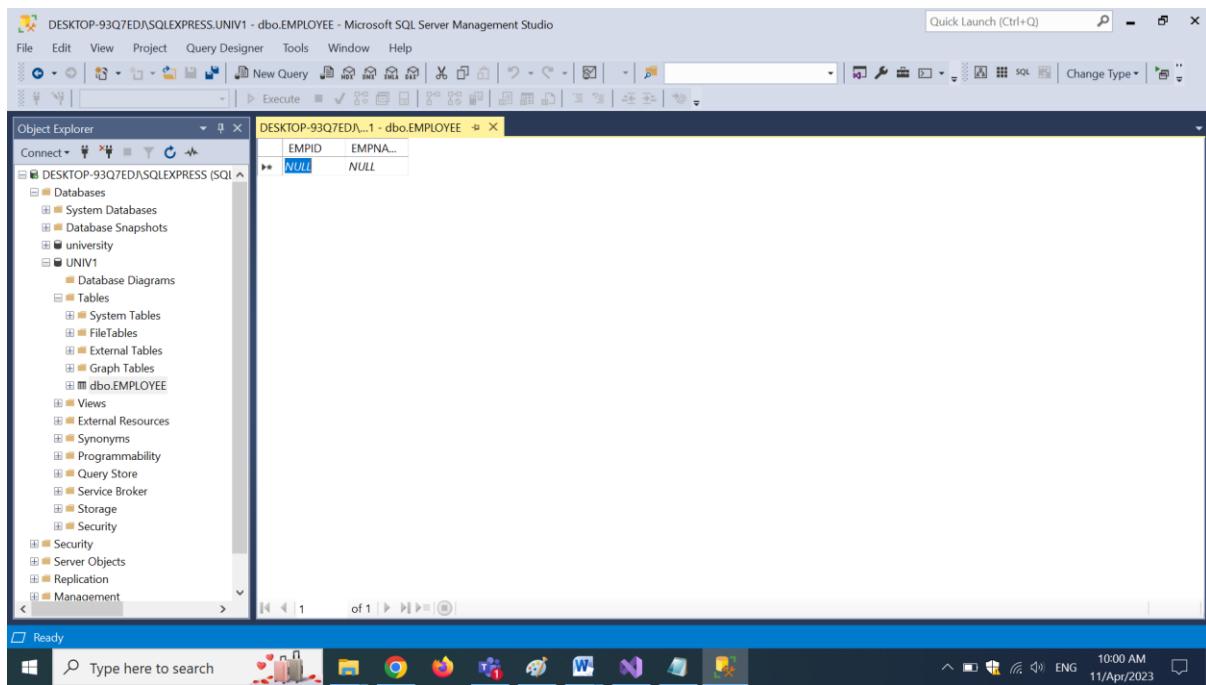
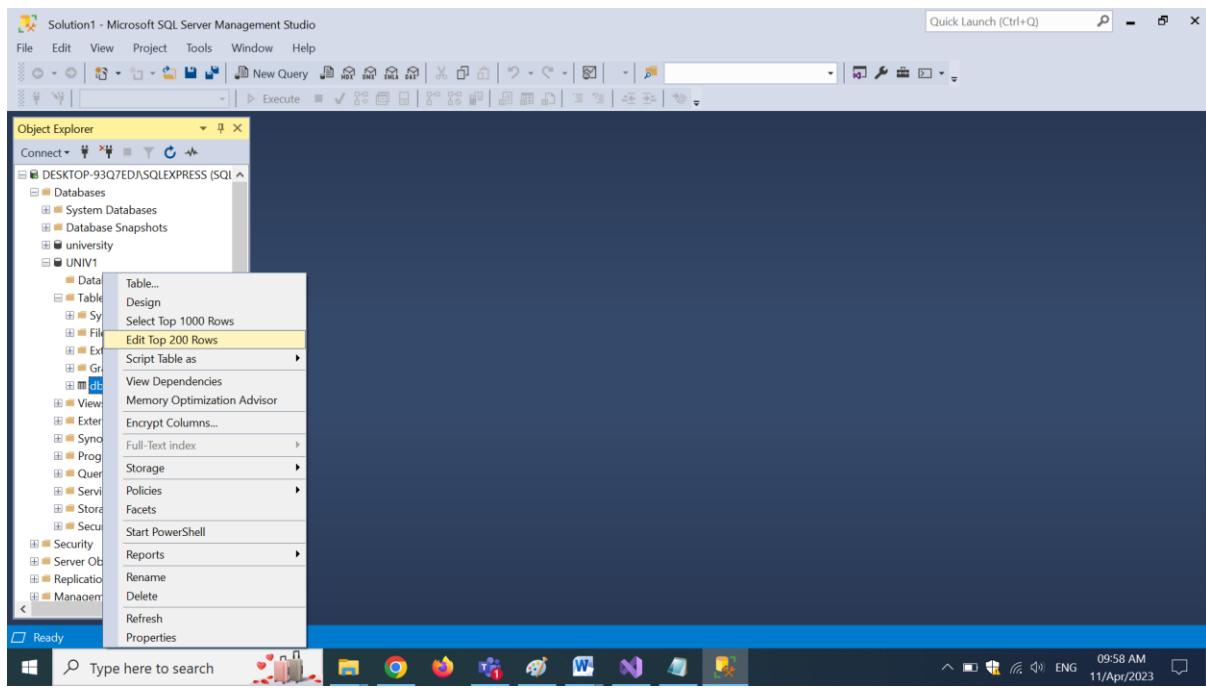




12. For entering data into the table, Right click on Employee table



13. Select The Following → Edit Top 200 Rows. You can view the following screens



14. You can make the entries as required

The screenshot shows the Microsoft SQL Server Management Studio interface. On the left, the Object Explorer pane displays a tree view of database objects for the 'DESKTOP-93Q7ED\SQLEXPRESS.UNIV1' database, including Databases, System Tables, FileTables, External Tables, Graph Tables, and the 'dbo.EMPLOYEE' table. The 'dbo.EMPLOYEE' table is selected, and its data grid shows three rows:

EMPID	EMPNAM...
1000	MM
1001	SKS
1002	KML
*	NULL

The status bar at the bottom indicates "Cell is Modified...".

15. Click Enter After The Last Entry.... To Save Your Data

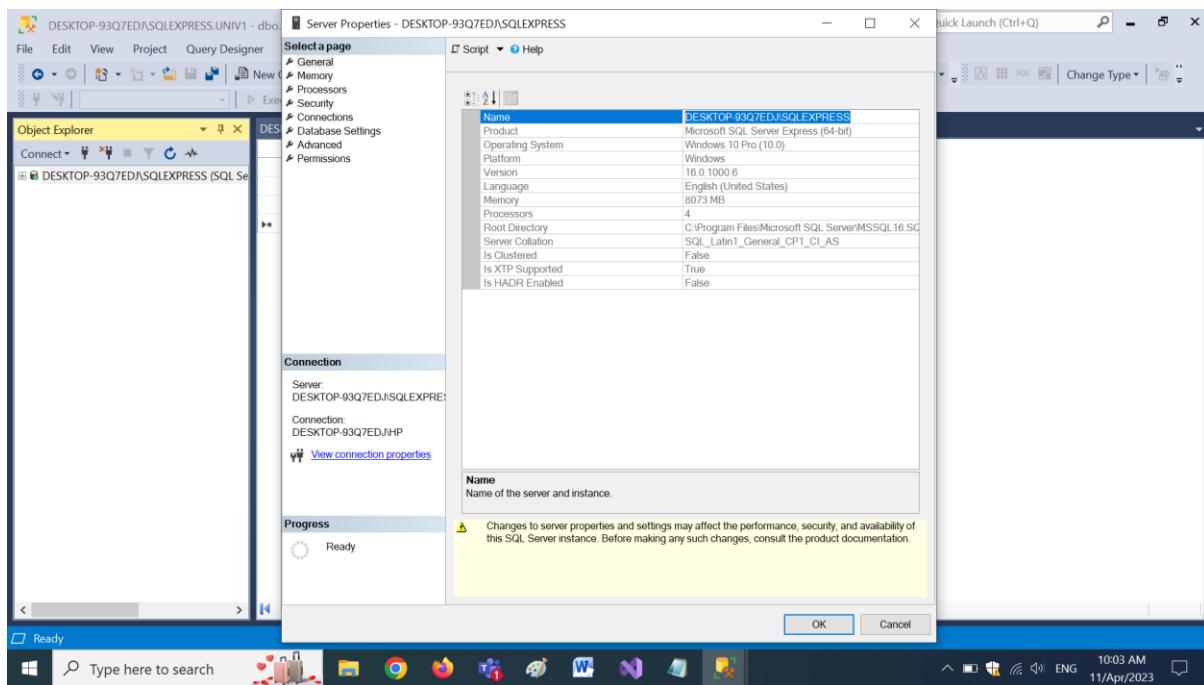
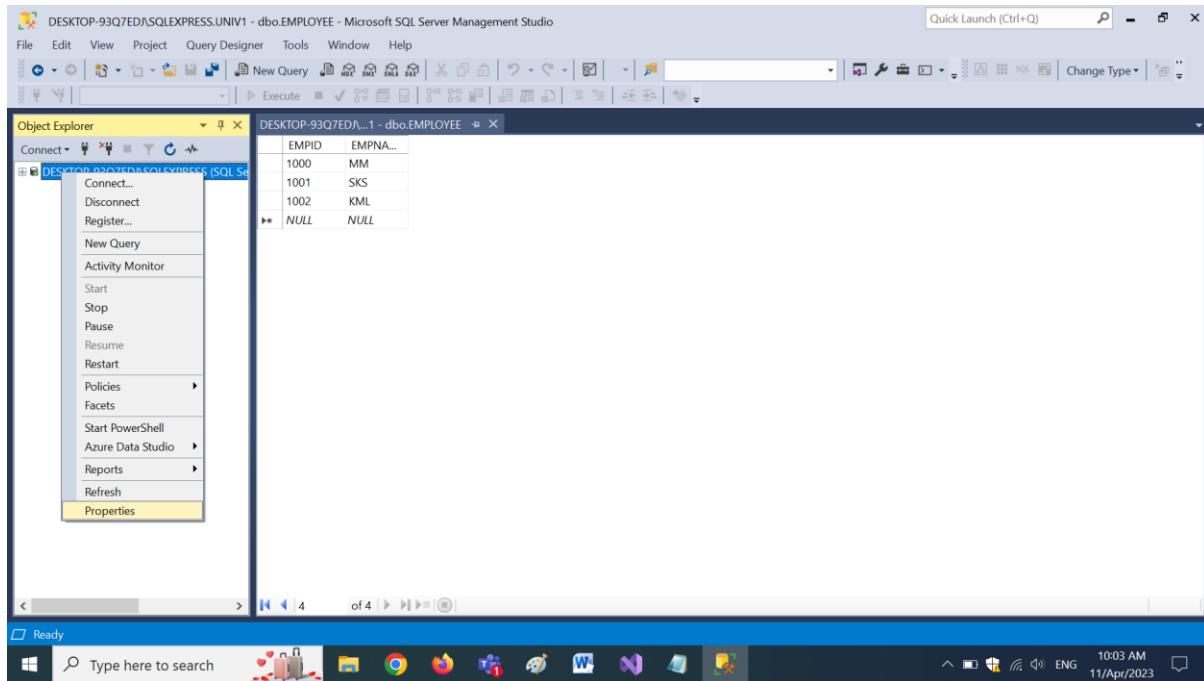
The screenshot shows the Microsoft SQL Server Management Studio interface after the changes have been saved. The data grid now shows four rows:

EMPID	EMPNAM...
1000	MM
1001	SKS
1002	KML
**	NULL

The status bar at the bottom indicates "of 4".

16. If You did not copy the server already, Follow these steps before going to VS 2022.

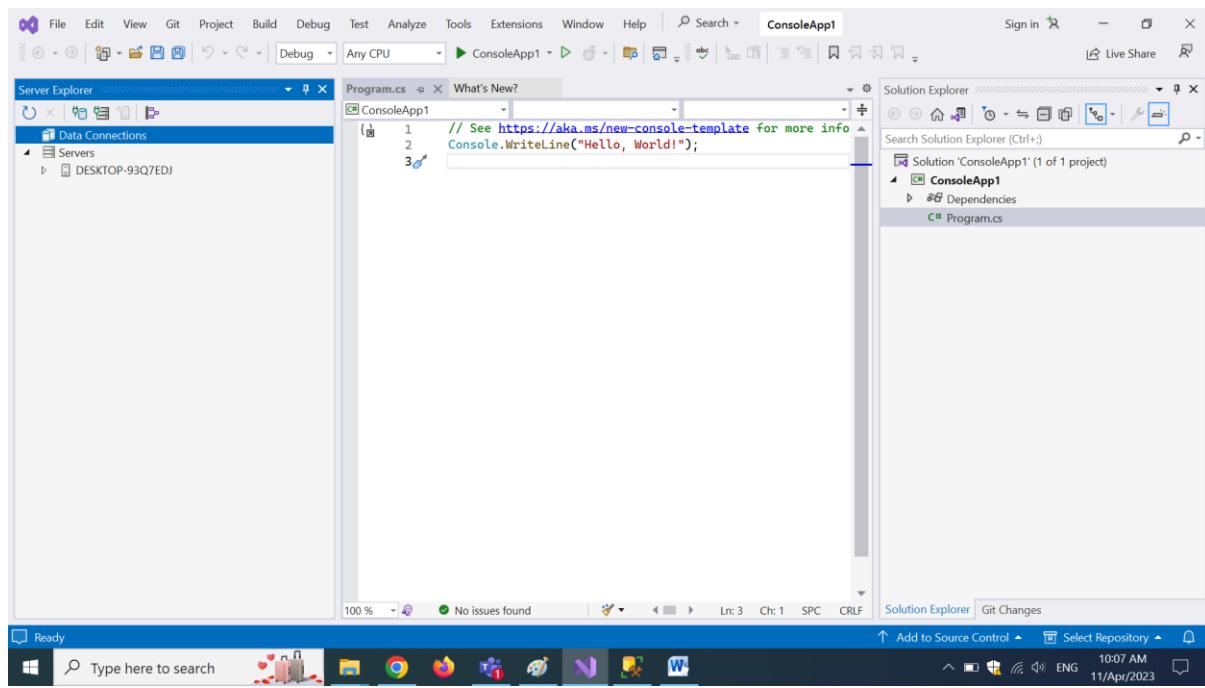
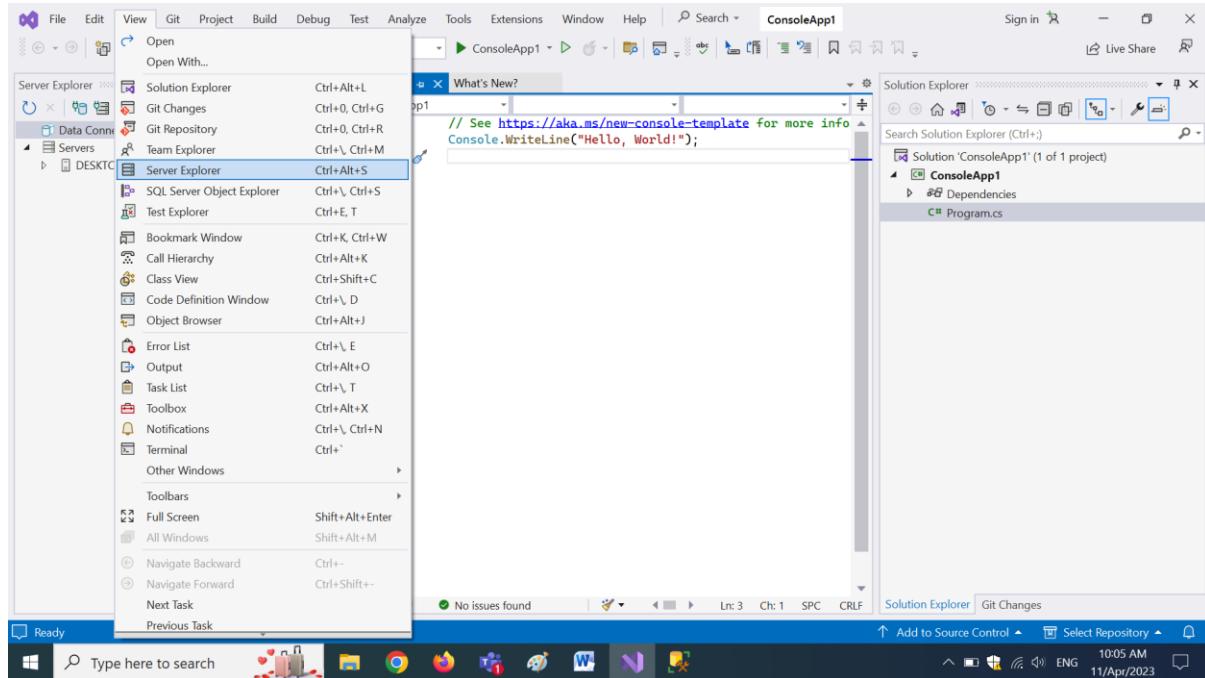
TO COPY THE NAME OF SERVER



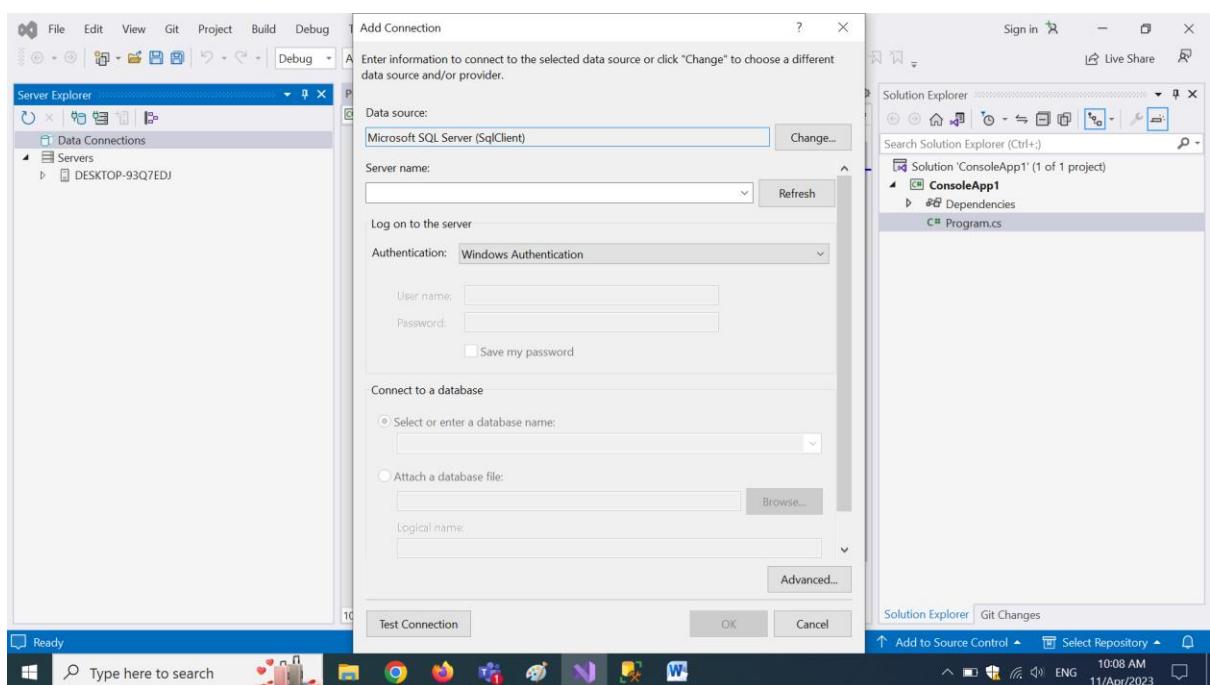
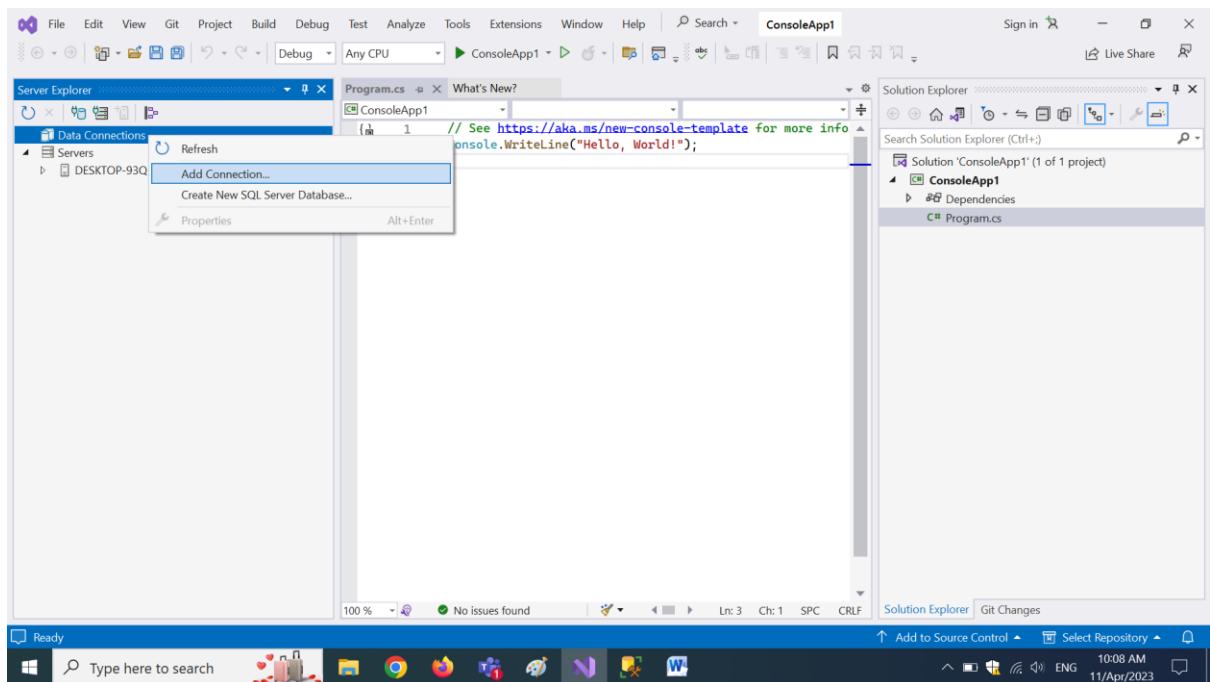
Successfully Completed Database creation, Table creation and adding records into the table.
Now we can connect this table using VS 2022.

Part II: DB CONNECTIVITY USING VS COMMUNITY 2022

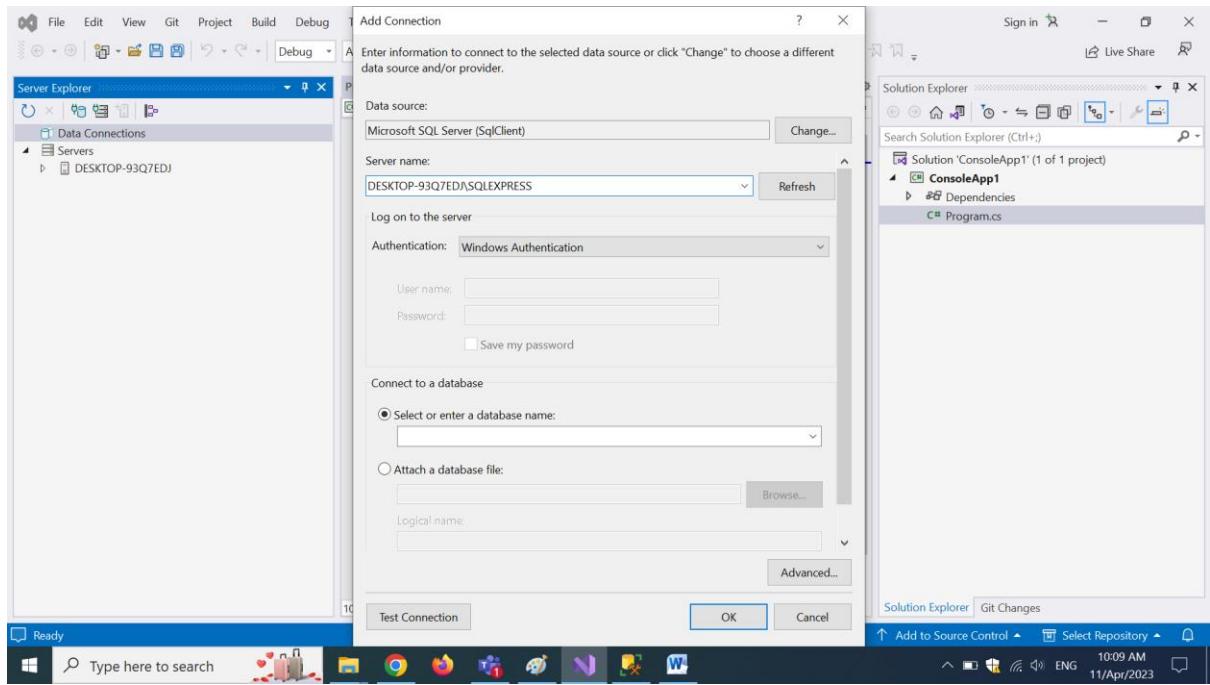
1. GOTO VIEW CLICK ON SERVER EXPLORER



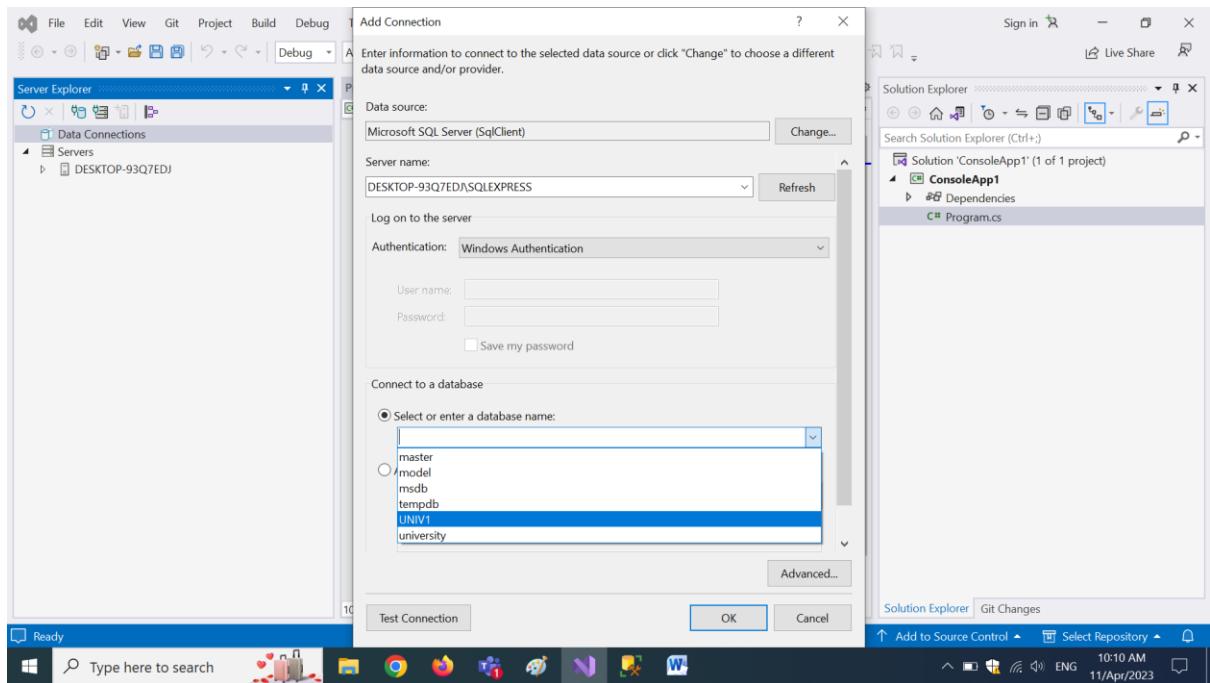
2. RIGHT CLICK ON → DATA CONNECTION → ADD CONNECTION



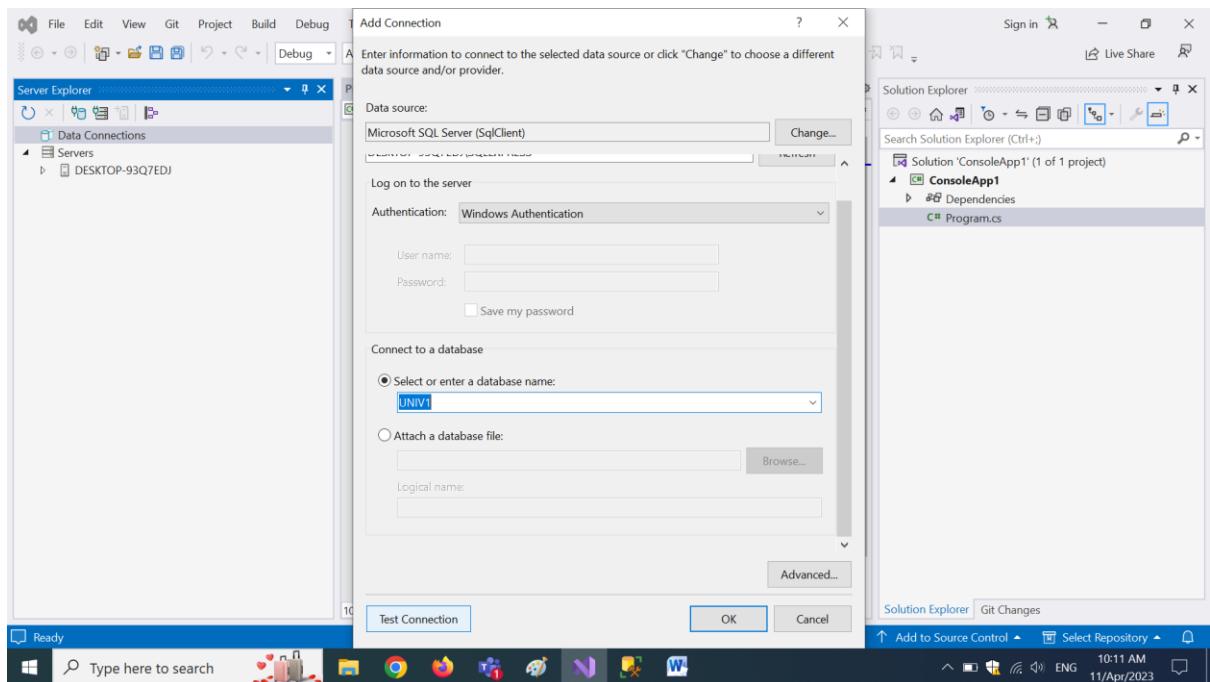
3. PASTE THE SERVER NAME (copied already) (IF NOT DISPLAYED BY DEFAULT)
NOTE : SERVER NAME IS DIFFERENT FOR EVERY SYSTEM IN THE UNIVERSITY.



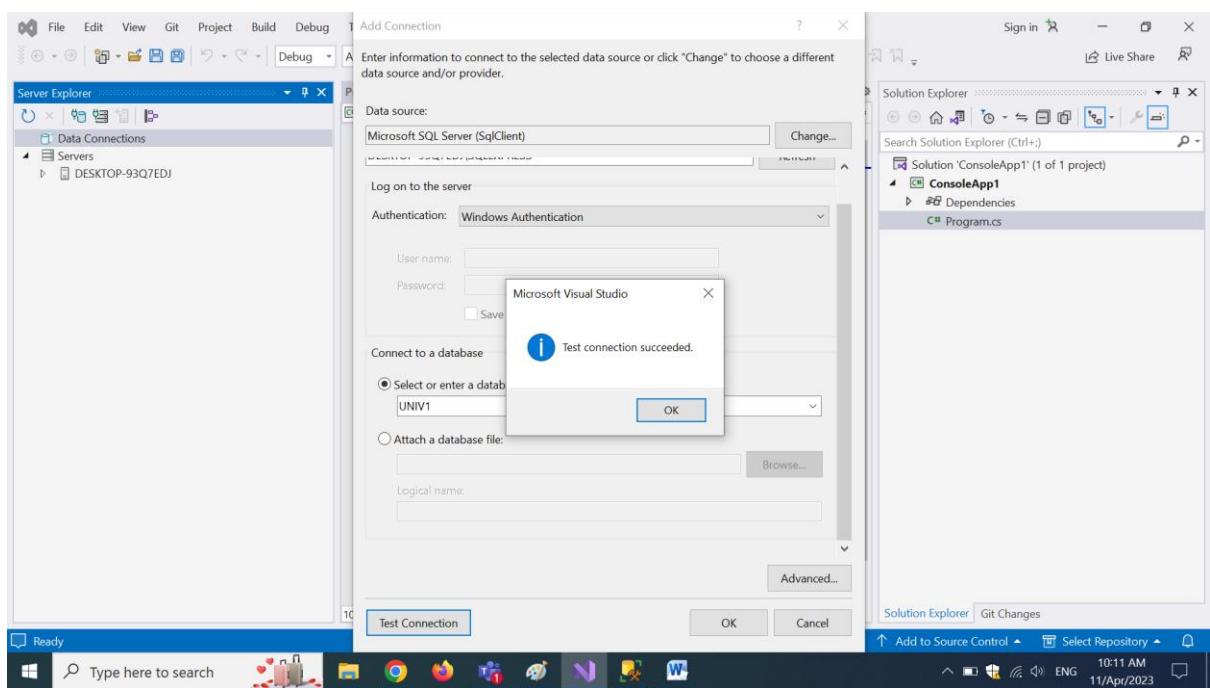
4. SELECT THE DATABASE FROM THE DROP DOWN LIST



5. CLICK ON → TEST CONNECTION



6. THE SCREEN WILL BE



7. CLICK ON OK . We have successfully connected with the database. Now can write a code in Console Application, Windows Application as well as Web application.

ALL THE BEST

1. University stores the employee details in the database. Write a code to retrieve the data and display the employee details.

Create a new Console Application(.NET FRAMEWORK). Don't forget to check framework in the brackets.

```
using System;
using System.Data.SqlClient;
namespace ConsoleApp10
{
    internal class dbconnectivity
    {
        static void Main()
        {
            string connString = "Data Source =
SANTHOSHKUMARKL\\SQLEXPRESS;Initial Catalog = UNIVERSITY; Integrated Security =
True ";
            string sql = @"select * from employee";
            SqlConnection conn = new SqlConnection(connString);

            try
            {
                conn.Open();
                SqlCommand cmd = new SqlCommand("select * from employee", conn);
                SqlDataReader dr = cmd.ExecuteReader();
                while (dr.Read())
                {
                    Console.WriteLine(dr[0]);
                    Console.WriteLine(dr[1]);
                    Console.WriteLine("");
                }
            }

            catch (Exception e)
            {
                Console.WriteLine("Error: " + e);
            }
            finally
            {
                conn.Close();
            }
            Console.ReadKey();
        }
    }
}
```

```
1001
SAN

1002
KUM

1003
KL
```

ASSESSMENT 10:

1. Design a Table Student with the following fields

StudId Int Primary Key

Studname nchar(10)

Course_Name nchar(10)

Semester int

Write a C# code to display students' details.