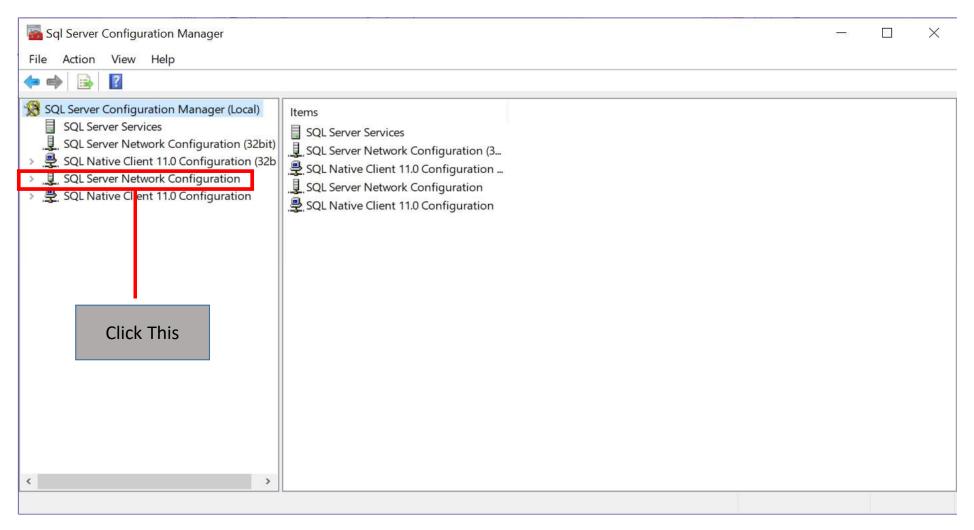
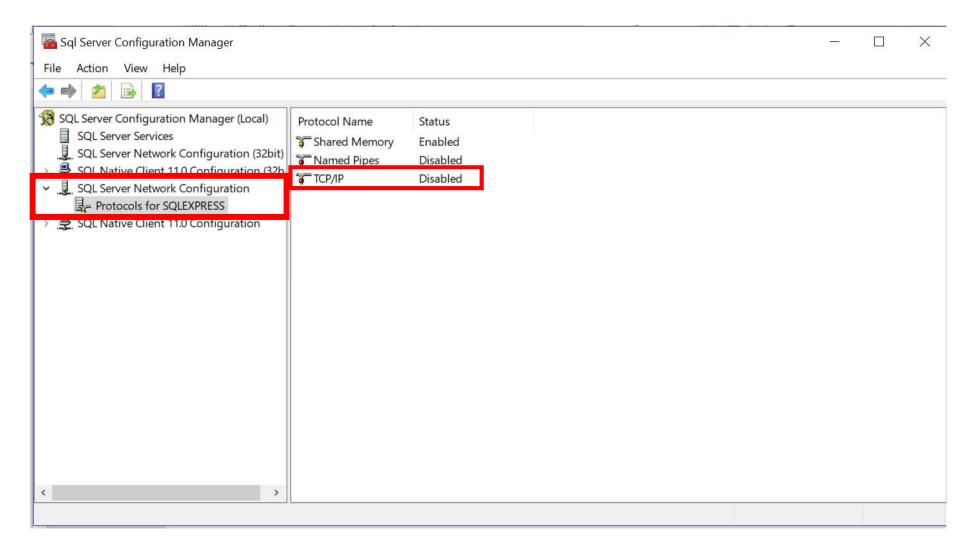
# Database System Lab (CSE 3104)

Connecting NetBeans Project to MSSQL Server

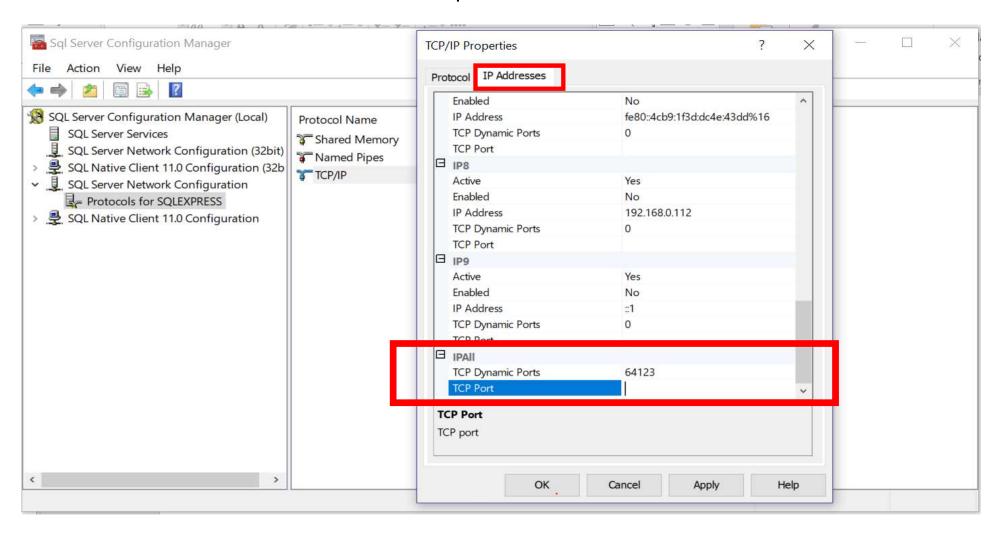
## cmd: 'SQLServerManager15.msc' for SQL Server 2019 Open the Sql Server Configuration Manager



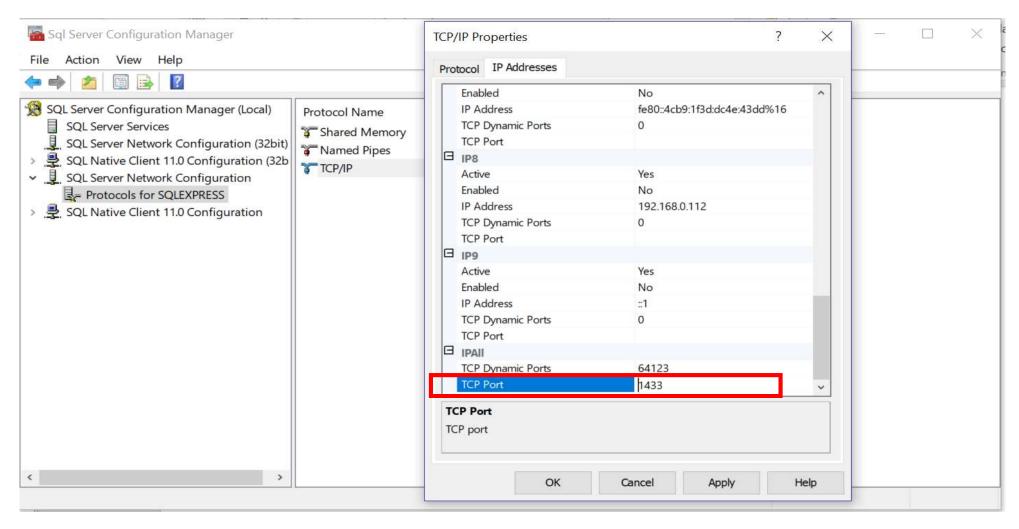
## Right Click the TCP/IP, Go to Properties -> IP Addresses



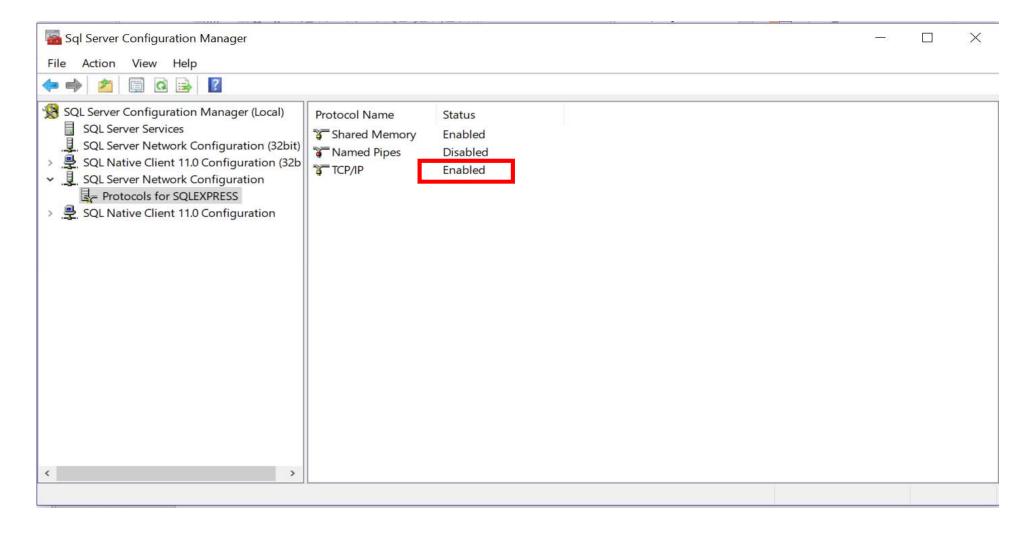
#### Scroll Down. Go to the last option: IPAII. Click on the TCP Port



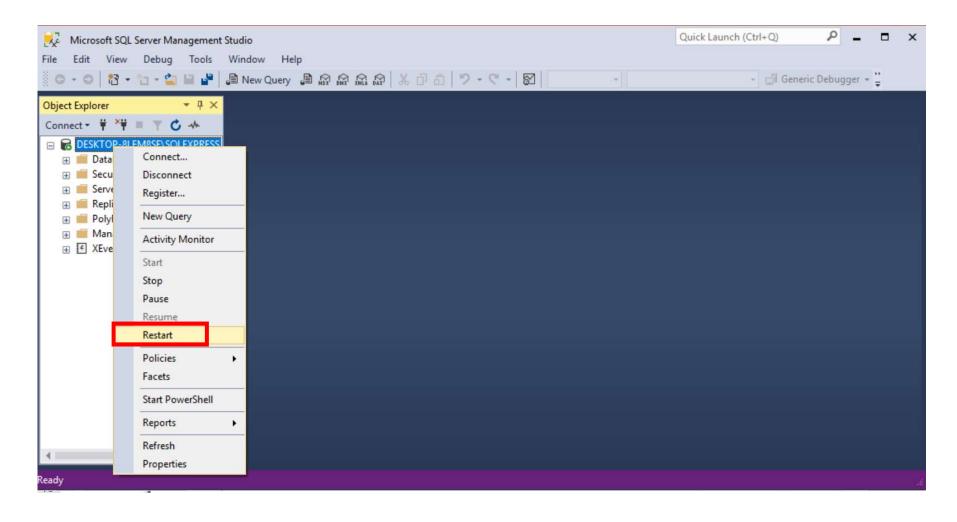
## Type 1433 in the TCP Port Option and click Apply.



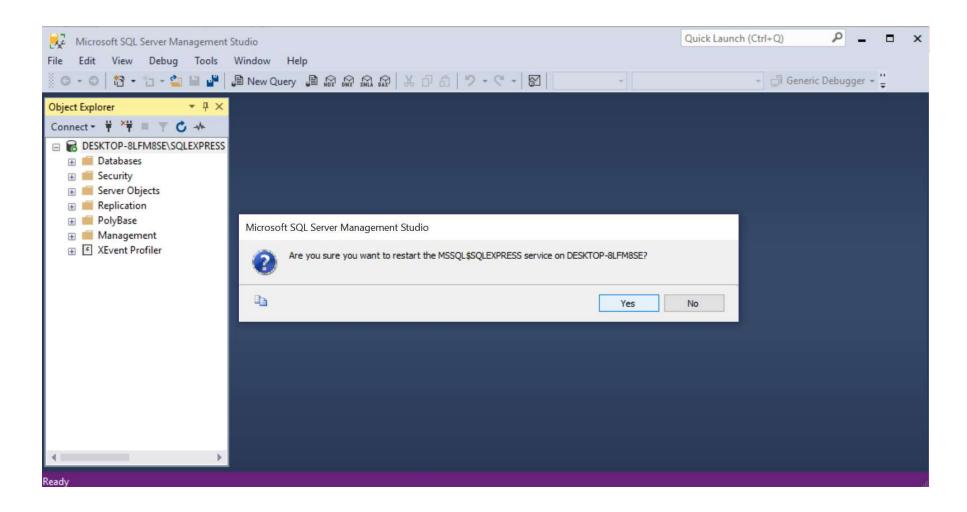
#### Again Right Click the TCP/IP and Click Enable.

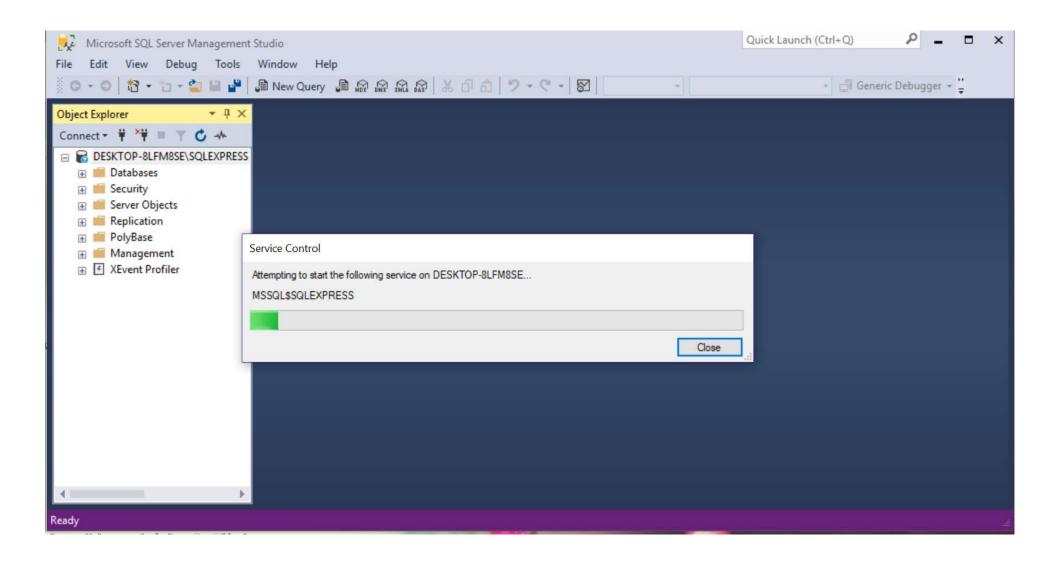


## Right Click The SQL Server and Click Restart



#### Click Yes

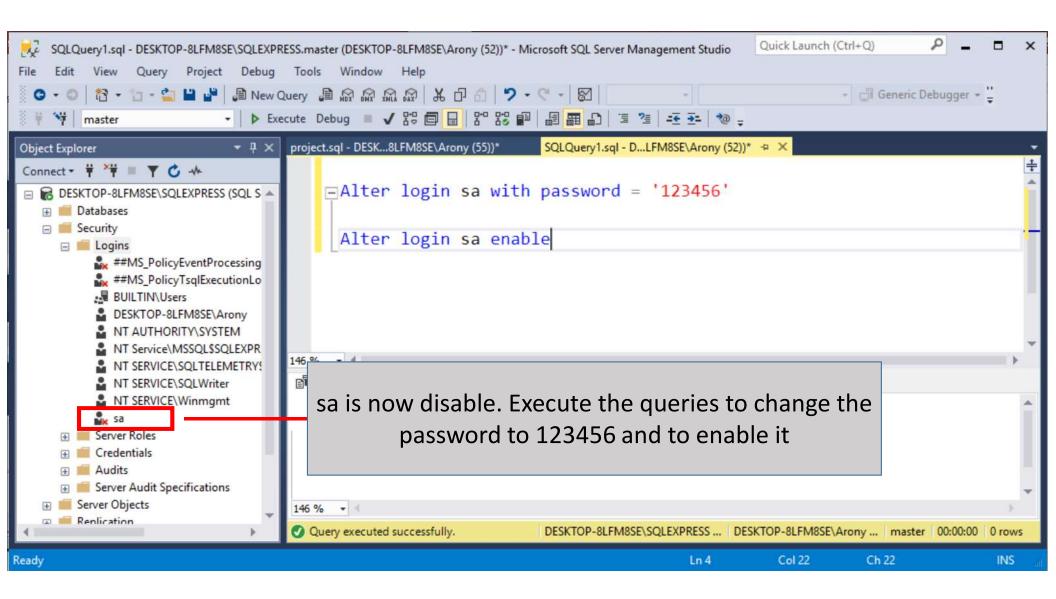




Execute the Following queries:

Alter login sa with password = '123456'

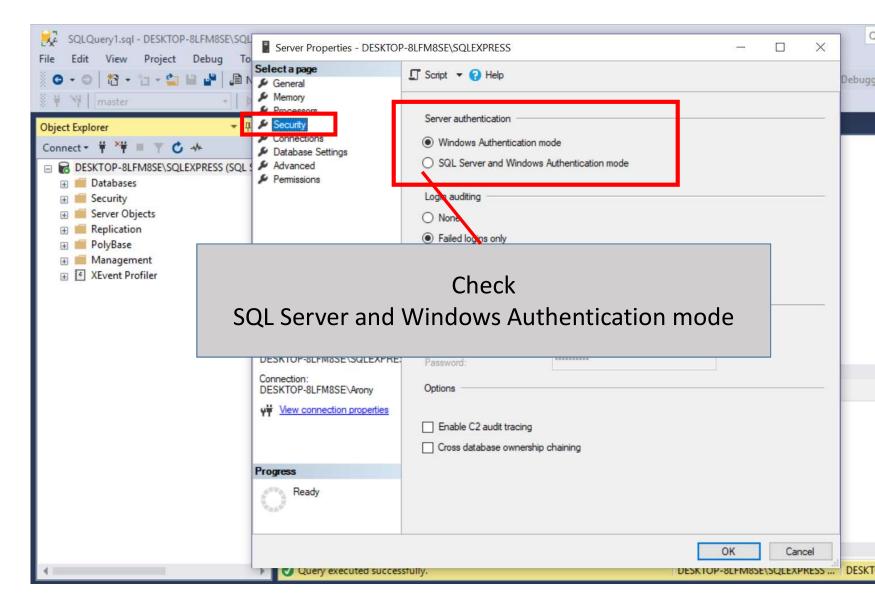
Alter login sa enable

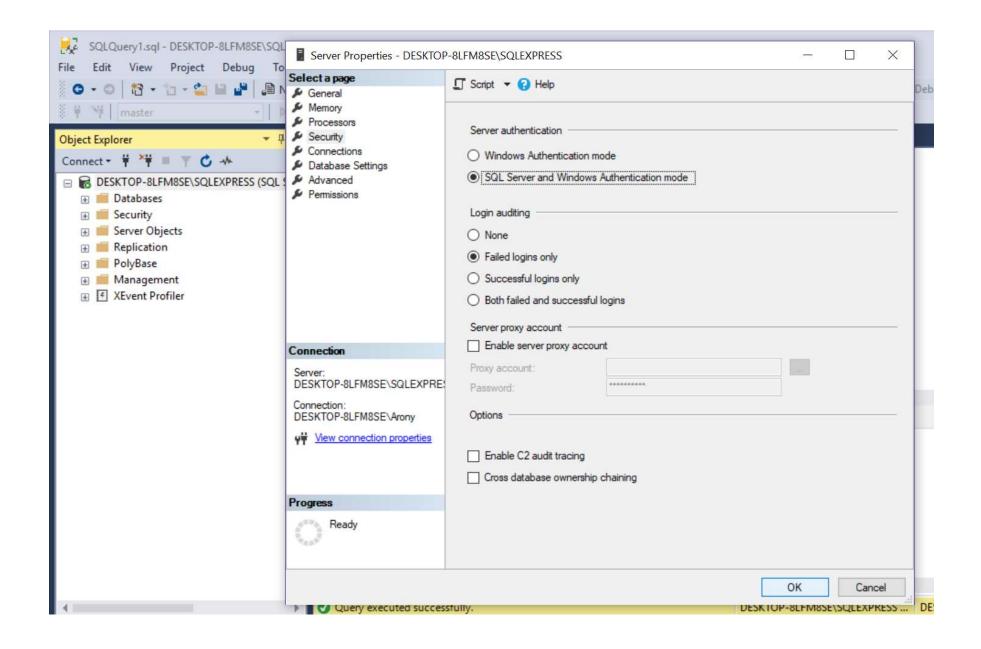


Right Click Sql Server.

Go to

Properties -> Security



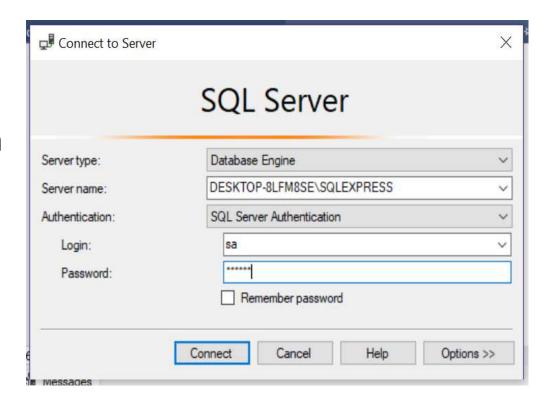


## Steps:

- Disconnect the sql server
- Then again click connect.
- Change Authentication from Windows Authentication to SQL Server Authentication
- Give Login : sa

Password: 123456

Click Connect



## Steps:

 Create your project Database in Microsoft SQL SERVER Management Studio.

Create table and insert data in the database.

## You can use this for testing Purpose

```
Create Database ProjectDB;
Use ProjectDB;
CREATE TABLE Customer(
CustomerID int IDENTITY(1,1) NOT NULL PRIMARY KEY,
FirstName varchar (50) NOT NULL,
LastName varchar (50) NOT NULL,
CustomerAddress varchar (50) NOT NULL,
City varchar (50) NOT NULL,
Country varchar (50) NOT NULL
);
INSERT INTO CUSTOMER
VALUES ('Amy', 'Johnson', '11000 Beecher', 'Joliet', 'USA'),
       ('Bill', 'Brown', '7312 Bettis Ave.', 'Pittsburg', 'USA'),
       ('Janna', 'Smith', '200 E. Elm Apt. #32', 'Sparks', 'USA'),
       ('Evette', 'LeBlanc', '207 Queens Quay West', 'Toronto', 'CA'),
       ('Drew', 'Brisco', '1690 Hollis Street', 'Ottawa', 'CA')
```

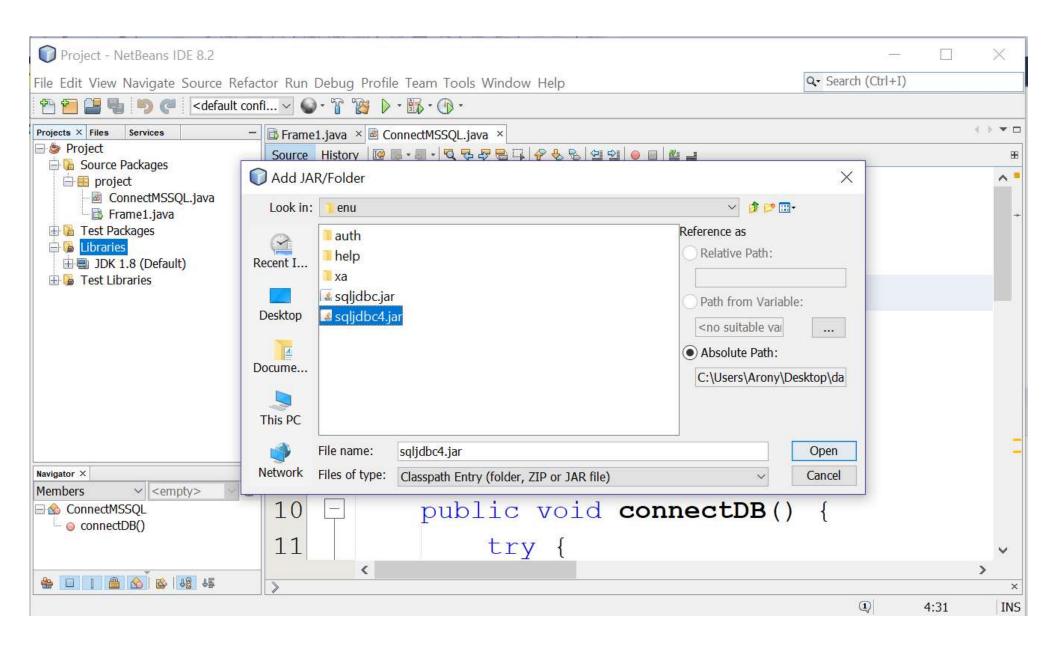
## Steps:

- Open NetBeans. Create New Project -> Project Name Unclick the create main class before finishing
- Create a new class named ConnectMSSQL.
- Copy and paste the connectDB() method given in the next slide inside the Class ConnectMSSQL

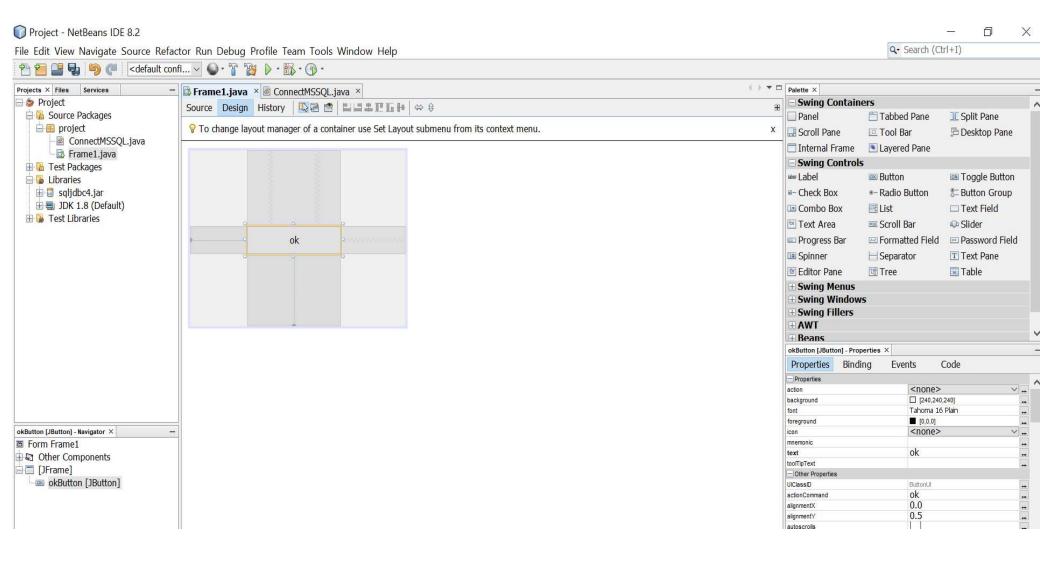
```
public void connectDB(){
    try {
      Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");
      Connection connection = DriverManager
           .getConnection(
               "jdbc:sqlserver://localhost:1433;databaseName=ProjectDB;selectMethod=cursor", "sa", "123456");
      System.out.println("DATABASE NAME IS:"
           + connection.getMetaData().getDatabaseProductName());
      Statement statement = connection.createStatement();
       ResultSet resultSet = statement
           .executeQuery("SELECT FirstName FROM Customer");
      while (resultSet.next()) {
         System.out.println("Customer NAME:"
             + resultSet.getString("FirstName"));
    } catch (Exception e) {
      e.printStackTrace();
```

#### import java.sql.Connection; import java.sql.DriverManager; The Class will look like this import java.sql.ResultSet; import java.sql.Statement; public class ConnectMSSQL { public void connectDB() { try { Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver"); Connection connection = DriverManager.getConnection( "jdbc:sqlserver://localhost:1433;databaseName=ProjectDB;selectMethod=cursor", "sa", "123456"); System.out.println("DATABASE NAME IS:" + connection.getMetaData().getDatabaseProductName()); Statement statement = connection.createStatement(); ResultSet resultSet = statement.executeQuery("SELECT FirstName FROM Customer"); while (resultSet.next()) { System.out.println("Customer NAME:" + resultSet.getString("FirstName")); catch (Exception e) { e.printStackTrace();

- Right click Libraries in the Project Created in Netbeans
- Select Add Jar/Folder
- Add the sqljdbc4.jar to the Libraries



- Create a jFrame Form inside the project
- Put button on the frame
- Go to the back end of the button
- Create an Object of the Class ConnectMSSQL
- Call the method connectDB()





 Run the frame and Click ok

You should get the desired
 Output

