## **Main method:**

```
package _221047012;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.Scanner;
//org.h2.Driver
//jdbc:h2:tcp://localhost/e:/MyDb/sachinproductdb
public class Main {
  static Connection connection;
  public static void main(String[] args)throws Exception {
    //uncomment only to create table
    //Class.forName("org.h2.Driver");//load the driver
    //Connection connection =
DriverManager.getConnection("jdbc:h2:tcp://localhost/e:/MyDb/sachinproductdb", "sachin", "#sunil@10")
   /* String connectionUrl = "jdbc:sqlserver://172.16.51.44;" +
     "databaseName=221047012;integratedSecurity=false;user=Sahana;password=sahana$215";
    connection = DriverManager.getConnection(connectionUrl);
    String sql="create table Products"+"(PID integer, Productname varchar(100), Productunitprice
float, Quantities integer, PRIMARY KEY(PID))";
    PreparedStatement preparedStatement=connection.prepareStatement(sql);
    //Execute the query
    int n=preparedStatement.executeUpdate();
    if(n==1) {
       System.out.println("table not created");
     }
    else {
       System.out.println("table created");
     preparedStatement.close();
    connection.close();*/
    Data p=new Data();
     Scanner <u>sc</u>=new Scanner(System.in);
    System.out.println("Enter your choice 1.insert 2.delete 3.display");
    int n1=sc.nextInt();
```

```
if(n1==1) {
       p.insertvalues();
    else if(n1==2) {
       p.deletevalues();
    else if(n1==3) {
       p.displayval();
     }
  }
}
Operations:
package _221047012;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.Scanner;
class Data {
  static Connection connection;
void insertvalues() throws SQLException, ClassNotFoundException
  Scanner sc=new Scanner(System.in);
  /*Class.forName("jdbc:sqlserver://localhost:1433");//load the driver
  Connection connection =
DriverManager.getConnection("jdbc:h2:tcp://localhost/e:/MyDb/sachinproductdb", "sachin", "#sunil@10")
;*/
  String connectionUrl = "jdbc:sqlserver://172.16.51.44;" +
       "databaseName=221047012;integratedSecurity=false;user=Sahana;password=sahana$215";
  connection = DriverManager.getConnection(connectionUrl);
  String sql="insert into Products values (?,?,?,?)";
  PreparedStatement preparedStatement=connection.prepareStatement(sql);
  System.out.println("Enter PID");
  int pid=sc.nextInt();
  preparedStatement.setInt(1, pid);
```

System.out.println("Enter Product name");

```
String pname=sc.next();
  preparedStatement.setString(2,pname);
  System.out.println("Enter Price");
  float price=sc.nextFloat();
  preparedStatement.setFloat(3,price);
  System.out.println("Enter Quantity");
  int quantity=sc.nextInt();
  preparedStatement.setInt(4,quantity);
  //Execute the query
  int n=preparedStatement.executeUpdate();
  if(n==1) {
  System.out.println("record inserted");
  else {
  System.out.println("record not inserted");
  //closing
  preparedStatement.close();
  connection.close();
void deletevalues() throws SQLException, ClassNotFoundException{
  Scanner sc=new Scanner(System.in);
  // TODO Auto-generated method stub
  //Class.forName("org.h2.Driver");//load the driver
  //make connection with DB
 // Connection connection =
DriverManager.getConnection("jdbc:h2:tcp://localhost/e:/MyDb/sachinproductdb", "sachin", "#sunil@10")
  String connectionUrl = "jdbc:sqlserver://172.16.51.44;" +
       "databaseName=221047012;integratedSecurity=false;user=Sahana;password=sahana$215";
  connection = DriverManager.getConnection(connectionUrl);
  String sql="Delete from Products where PID=?";
  PreparedStatement preparedStatement=connection.prepareStatement(sql);
  System.out.println("Enter PID to delete Product");
  int delpid=sc.nextInt();
  preparedStatement.setInt(1,delpid);
  int n=preparedStatement.executeUpdate();
  if(n==1) {
  System.out.println("deleted");
  }
  else {
    System.out.println("not deleted");
  preparedStatement.close();
  connection.close();
}
void displayval() throws SQLException, ClassNotFoundException {
```

```
Scanner sc=new Scanner(System.in);
  // TODO Auto-generated method stub
  //Class.forName("org.h2.Driver");//load the driver
  //make connection with DB
  //Connection connection =
DriverManager.getConnection("jdbc:h2:tcp://localhost/e:/MyDb/sachinproductdb", "sachin", "#sunil@10")
  String connectionUrl = "jdbc:sqlserver://172.16.51.44;" +
       "databaseName=221047012;integratedSecurity=false;user=Sahana;password=sahana$215";
  connection = DriverManager.getConnection(connectionUrl);
  String sql="Select * from Products";
  PreparedStatement preparedStatement=connection.prepareStatement(sql);
  ResultSet resultSet=preparedStatement.executeQuery();
  while(resultSet.next()) {
  System.out.println(resultSet.getInt("PID")+" "+resultSet.getString("Productname")+"
"+resultSet.getFloat("Productunitprice")+" "+resultSet.getInt("Quantities"));
  resultSet.close();
  preparedStatement.close();
  connection.close();
  }
}
```

## **Snapshots:**

```
int n=preparedStatement.executeUpdate();
✓ 烂 DB
                                                                                     if(n==1) {
    System.out.println("table not created");
  > 🛺 Data.java
> 🞣 Main.java
                                                                                          System.out.println("table created");
     > 🚺 module-info.java
                                                                                      preparedStatement.close();
  > M JRE System Library [JavaSE-18]
> M Referenced Libraries
> 📂 Ecommerce
> 😽 JavaTest
> all JavaTest_01
                                                                                     Data p=new Data();
                                                                                     Scanner Scanner(System.in);
System.out.println("Enter your choice 1.insert 2.delete 3.display");
> 😸 Lab2_java
> 😸 lab4
                                                                                     int n1=sc.nextInt();
if(n1==1) {
   p.insertvalues();
> 🔂 Lab5
> 🔛 Log4
                                                                                     }
else if(n1==2) {
   p.deletevalues();
> 🔐 logggg
                                                                                     else if(n1==3) {
    p.displayval();
                                                                     Problems @ Javadoc Declaration Console X Terminal Properties
                                                                     <terminated> Main [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Dec-2022, 7:38:12 pm – 7:38:39 pm) [p
                                                                     Enter your choice 1.insert 2.delete 3.display
                                                                     Enter PID
                                                                     Enter Product name
                                                                     Enter Price
                                                                     Enter Quantity
                                                                     record inserted
```







