**SmartBridge  Internship 2023-2024**

**Smart Bridge  -  Model Application  Development (Java Spring Boot)**

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**Assignment 3**

## Retrieve Data Using JDBC :

**Code:**

```java
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
public class MyClass {

    public static void main(String[] args) {
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/college","root","Madh
u@2024");

            Statement stmt=con.createStatement();
            ResultSet rs=stmt.executeQuery("Select * from students");
            while(rs.next())
            {

    System.out.println(rs.getString(1)+"\t"+rs.getString(2)+"\t"+rs.getString(3
)+"\t"+rs.getString(4));
            }
        }
        catch(Exception e){
            System.out.println(e.toString());
        }

    }

}
```
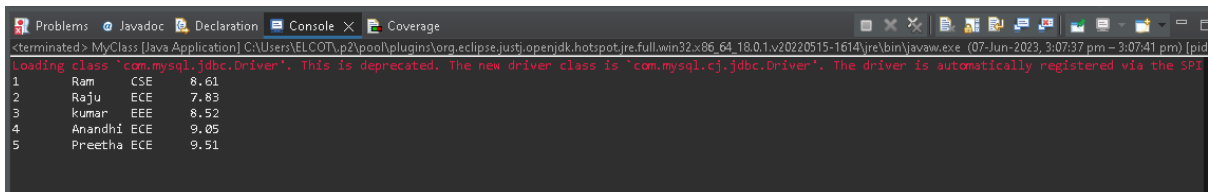
```java
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
public class MyClass {

    public static void main(String[] args) {
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/college","root","Madhu@2024");
            Statement stmt=con.createStatement();
            ResultSet rs=stmt.executeQuery("Select * from students");
            while(rs.next())
            {
                System.out.println(rs.getString(1)+"\t"+rs.getString(2)+"\t"+rs.getString(3)+"\t"+rs.getString(4));
            }
        }
        catch(Exception e){
            System.out.println(e.toString());
        }

    }

}
```

> **Output:**



```
Problems @ Javadoc @ Declaration  Console ×  Coverage
<terminated> MyClass [Java Application] C:\Users\ELCOT\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_18.0.1.v20220515-1614\jre\bin\javaw.exe  (07-Jun-2023, 3:07:37 pm – 3:07:41 pm) [pid
Loading class `com.mysql.jdbc.Driver'. This is deprecated. The new driver class is `com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI
1    Ram      CSE    8.61
2    Raju     ECE    7.83
3    kumar    EEE    8.52
4    Anandhi  ECE    9.05
5    Preetha  ECE    9.51
```

> **Update Data using JDBC:**

> **Code:**

```java
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
public class MyClass {

    public static void main(String[] args) {
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/college","root","Madhu@2024");
            Statement stmt=con.createStatement();
            int rs=stmt.executeUpdate("insert into students(id,name,department,cgpa) values(6,\"Prathiksha\",\"ECE\",9.65)");

            if(rs>0)
            {
                System.out.println("Successfully Updated");
            }
            ResultSet r=stmt.executeQuery("Select * from students");
            System.out.println();
            System.out.println();
            while(r.next())
            {

    System.out.println(r.getString(1)+"\t"+r.getString(2)+"\t"+r.getString(3)+"\t"+r.getString(4));
            }
```

```
                }
            catch(Exception e){
                    System.out.println(e.toString());
                }

        }

}
```

```java
1  import java.sql.Connection;
2  import java.sql.DriverManager;
3  import java.sql.ResultSet;
4  import java.sql.Statement;
5  public class MyClass {
6
7      public static void main(String[] args) {
8          try {
9              Class.forName("com.mysql.jdbc.Driver");
10             Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/college","root","Madhu@2024");
11             Statement stmt=con.createStatement();
12             int rs=stmt.executeUpdate("insert into students(id,name,department,cgpa) values(6,\"Prathiksha\",\"ECE\",9.65)");
13
14             if(rs>0)
15             {
16                 System.out.println("Successfully Updated");
17             }
18             ResultSet r=stmt.executeQuery("Select * from students");
19             System.out.println();
20             System.out.println();
21             while(r.next())
22             {
23                 System.out.println(r.getString(1)+"\t"+r.getString(2)+"\t"+r.getString(3)+"\t"+r.getString(4));
24             }
25         }
26         catch(Exception e){
27             System.out.println(e.toString());
28         }
29
30     }
31
32 }
```
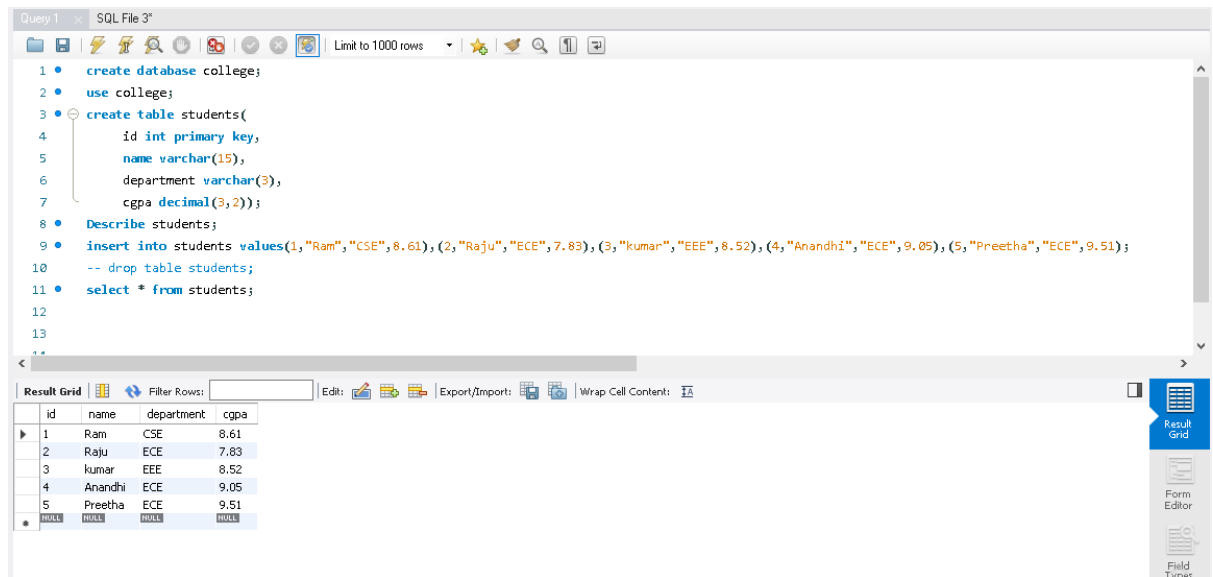
## ➢ Output:

```
Loading class `com.mysql.jdbc.Driver`. This is deprecated. The new driver class is `com.mysql.cj.jdbc.Driver`. The driver is automatically registered via the SPI
Successfully Updated


1       Ram     CSE     8.61
2       Raju    ECE     7.83
3       kumar   EEE     8.52
4       Anandhi ECE     9.05
5       Preetha ECE     9.51
6       Prathiksha      ECE     9.65
```
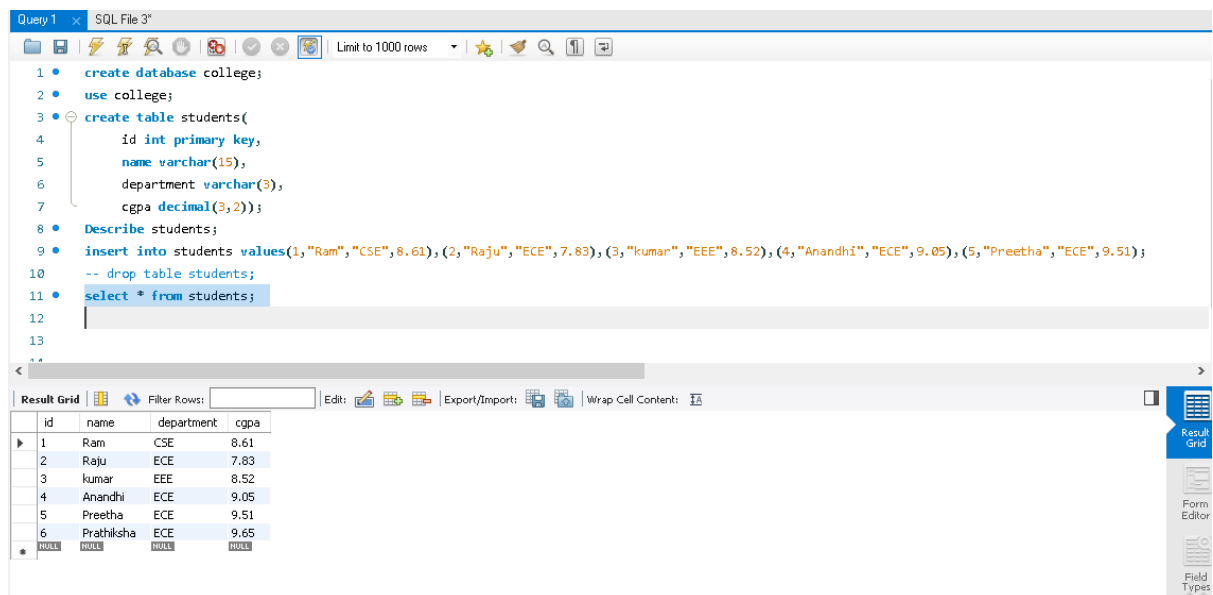
## ➢ Before Insert:



## ➢ After Insert:



## Conclusion :

Using Eclipse IDE I have connected to the SQL Server and from which I have retrieved the data and also updated the data using JDBC.

**Links:**

➤ Assignment-3

https://drive.google.com/file/d/1LXW0t5WwsLFYyuAmwg1OzCUTnbmUA3b/view?usp=drive_link