

SmartBridge Internship 2023-2024

Smart Bridge - Model Application Development (Java Spring Boot)

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Assignment 3

Retrieve Data Using JDBC :

Code:

```
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());
        }

    }

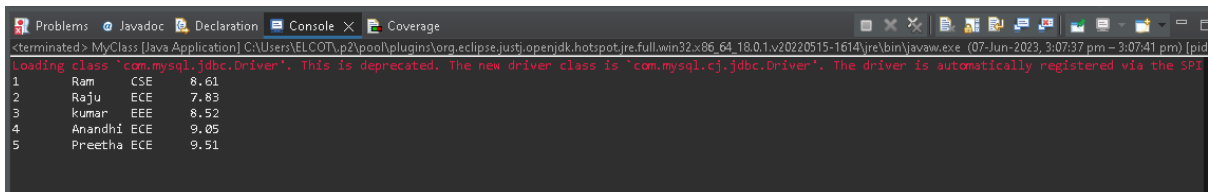
}
```

```

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            ResultSet rs=stmt.executeQuery("Select * from students");
13            while(rs.next())
14            {
15                System.out.println(rs.getString(1)+"\t"+rs.getString(2)+"\t"+rs.getString(3)+"\t"+rs.getString(4));
16            }
17        }
18        catch(Exception e){
19            System.out.println(e.toString());
20        }
21    }
22 }
23
24 }

```

➤ Output:



```

<terminated> MyClass [Java Application] C:\Users\ELCOT\p2\pool\plugins\org.eclipse.justi.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:

```

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();
            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());
    }
}
}

```

```

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:

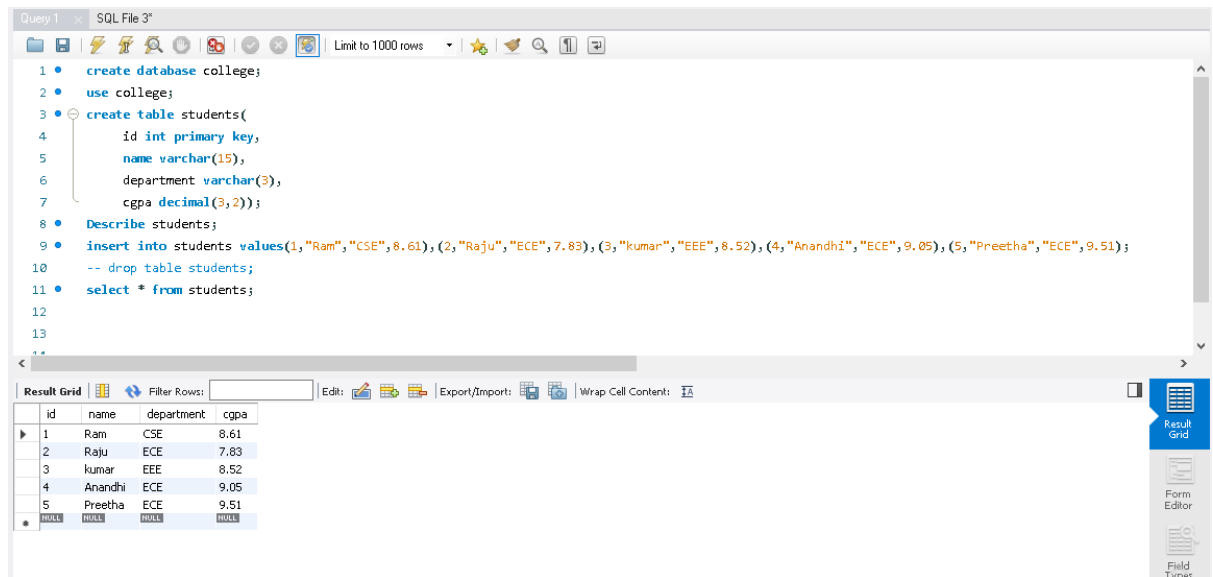
```

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:



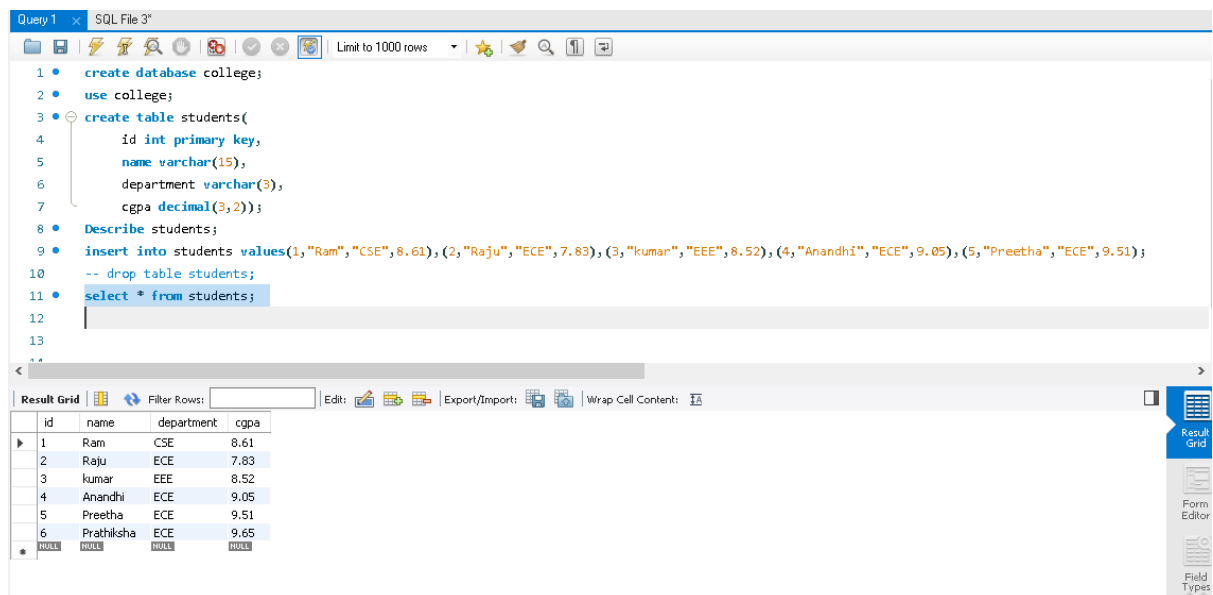
The screenshot shows the Eclipse IDE with a SQL editor and a result grid. The SQL code in the editor is as follows:

```
1 • create database college;
2 • use college;
3 • create table students(
4     id int primary key,
5     name varchar(15),
6     department varchar(3),
7     cgpa decimal(3,2));
8 • Describe students;
9 • insert into students values(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);
10 -- drop table students;
11 select * from students;
```

The result grid below the editor displays the data after the insert operation:

id	name	department	cgpa
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

➤ After Insert:



The screenshot shows the Eclipse IDE with the same SQL code as before, but the result grid now displays an additional row:

id	name	department	cgpa
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

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