

SMARTBRIDGE ASSIGNMENT - 3
Modern Application Development (Java Spring Boot)

Name: Raja N

Reg.no: 20MIS0419

Campus: VIT-Vellore

Task:-

1.Implement JDBC connectivity using Java.

```
package intern;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;

public class db_conn {

    public static void main(String args[]) {

        try {

            // 1.register the driver

            Class.forName("com.mysql.jdbc.Driver");

            // 2.connection

            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/guna", "root", "guna");

            System.out.println("Successfully connected");

            // 3.close the conenction

            conn.close();

        } catch (Exception e) {

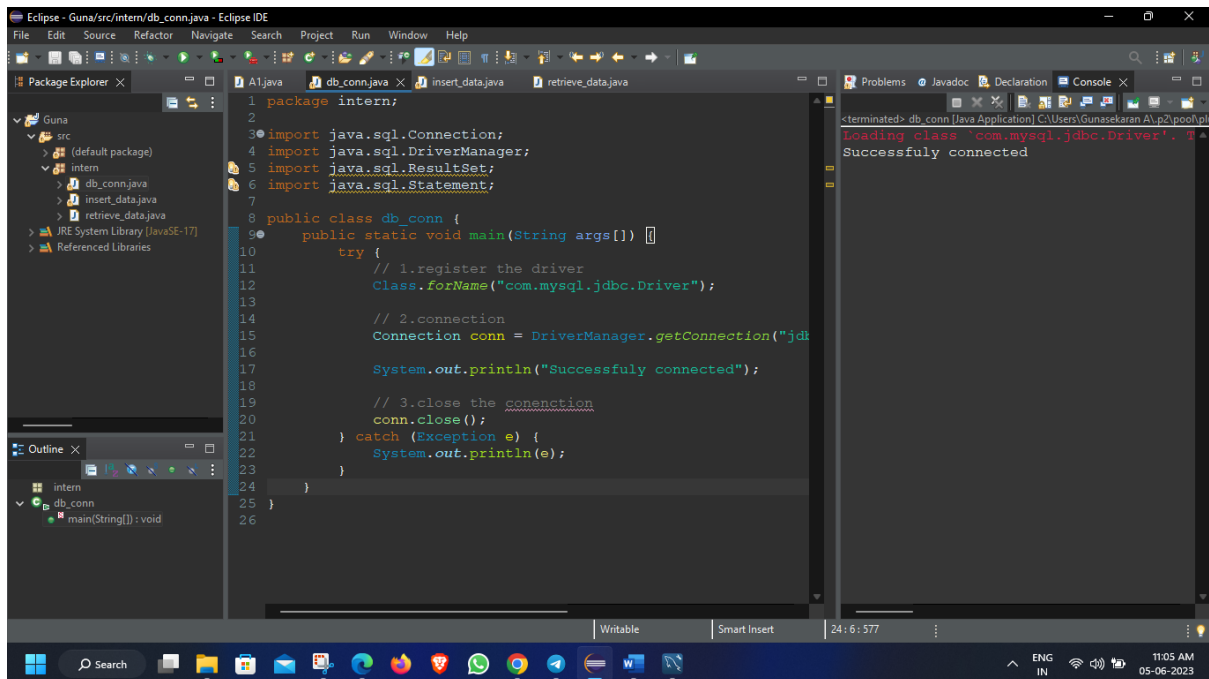
            System.out.println(e);

        }

    }

}
```

Output:



Retrieve Data Using JDBC:

```
package intern;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;

public class db_conn {

    public static void main(String args[]) {

        try {

            // 1.register the driver

            Class.forName("com.mysql.jdbc.Driver");

            // 2.connection

            Connection conn =
            DriverManager.getConnection("jdbc:mysql://localhost:3306/guna", "root", "guna");

            // 3.Statement

            Statement stmt = conn.createStatement();

            // 4.Execute query
```

```

        ResultSet rs = stmt.executeQuery("select * from students");

        while (rs.next()) {

            System.out.println(rs.getInt(1)+" "+rs.getString(2)+"
"+rs.getString(3)+" "+rs.getInt(4)+" "+rs.getString(5)+ " "+rs.getString(6));

        }

        // 5.close the conenction

        conn.close();

    } catch (Exception e) {

        System.out.println(e);

    }

}

}

```

Output:

```

1 package intern;
2
3 import java.sql.Connection;
4 import java.sql.DriverManager;
5 import java.sql.ResultSet;
6 import java.sql.Statement;
7
8 public class db_conn {
9     public static void main(String args[]) {
10         try {
11             // 1.register the driver
12             Class.forName("com.mysql.jdbc.Driver");
13
14             // 2.connection
15             Connection conn = DriverManager.getConnection("jdbc:
16
17             // 3.Statement
18             Statement stmt = conn.createStatement();
19
20             // 4.Execute query
21             ResultSet rs = stmt.executeQuery("select * from st
22
23             while (rs.next()) {
24                 System.out.println(rs.getInt(1)+" "+rs.getStri
25             }
26
27             // 5.close the conenction
28             conn.close();
29         } catch (Exception e) {
30
31

```

```

<terminated> db_conn [Java Application] C:\Users\Gunasekaran A\p2\poolph
Loading class 'com.mysql.jdbc.Driver':
101 gunasekaran CSE 4 VIT-Vellore male
102 sivaranjani IT 1 VIT-AP female
103 arjunan ECE 3 VIT-Chennai male
104 manimegalai EEE 2 VIT-Bhopal female
105 ammu CSE 4 VIT-Vellore female
106 siva Mech 1 VIT-Chennai male

```

Insert Data Using JDBC:

```
package intern;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;

public class insert_data {

    public static void main(String args[]) {

        try {

            // 1.register the driver

            Class.forName("com.mysql.jdbc.Driver");

            // 2.connection

            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/guna", "root", "guna");

            // 3.Statement

            Statement stmt = conn.createStatement();

            // 4.Execute query

            int rs = stmt.executeUpdate("insert into
students(StudentId,SName,Dept,Year,Campus,Gender) values(107,'ram','CSE','3','VIT-
AP','male')");

            if (rs > 0)

                System.out.println("successfully inserted");

            else

                System.out.println("unsucessful insertion ");

            // 5.close the conenction

            conn.close();

        } catch (Exception e) {

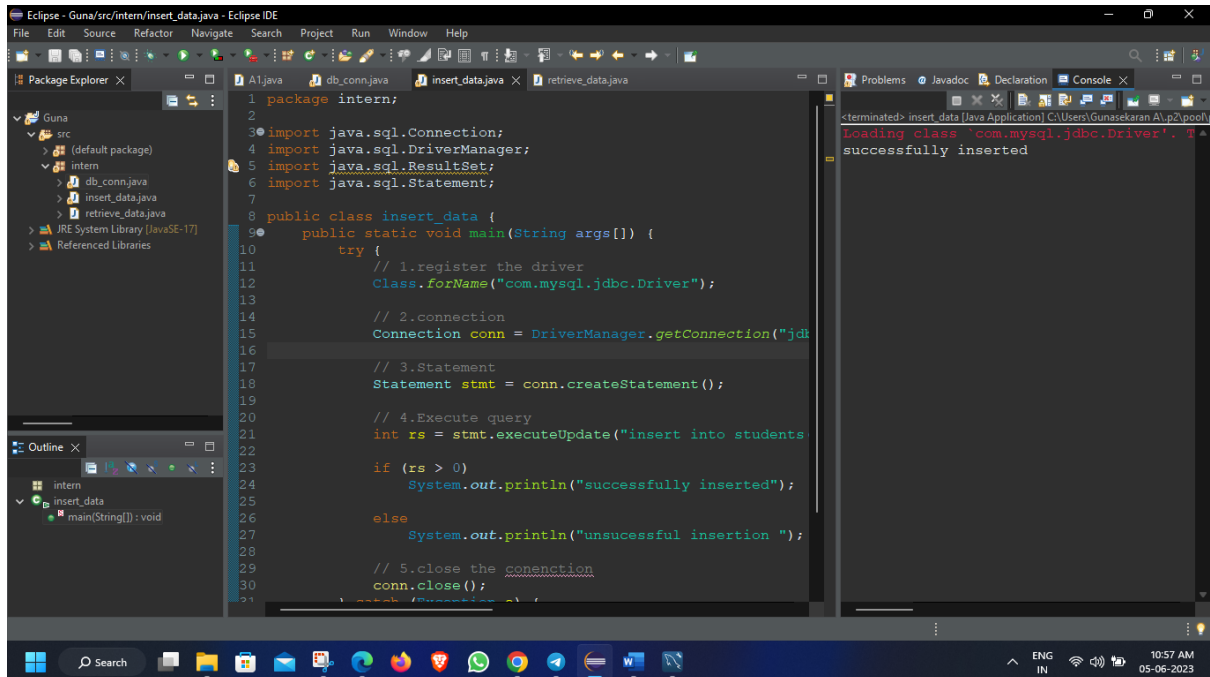
            System.out.println(e);

        }

    }

}
```

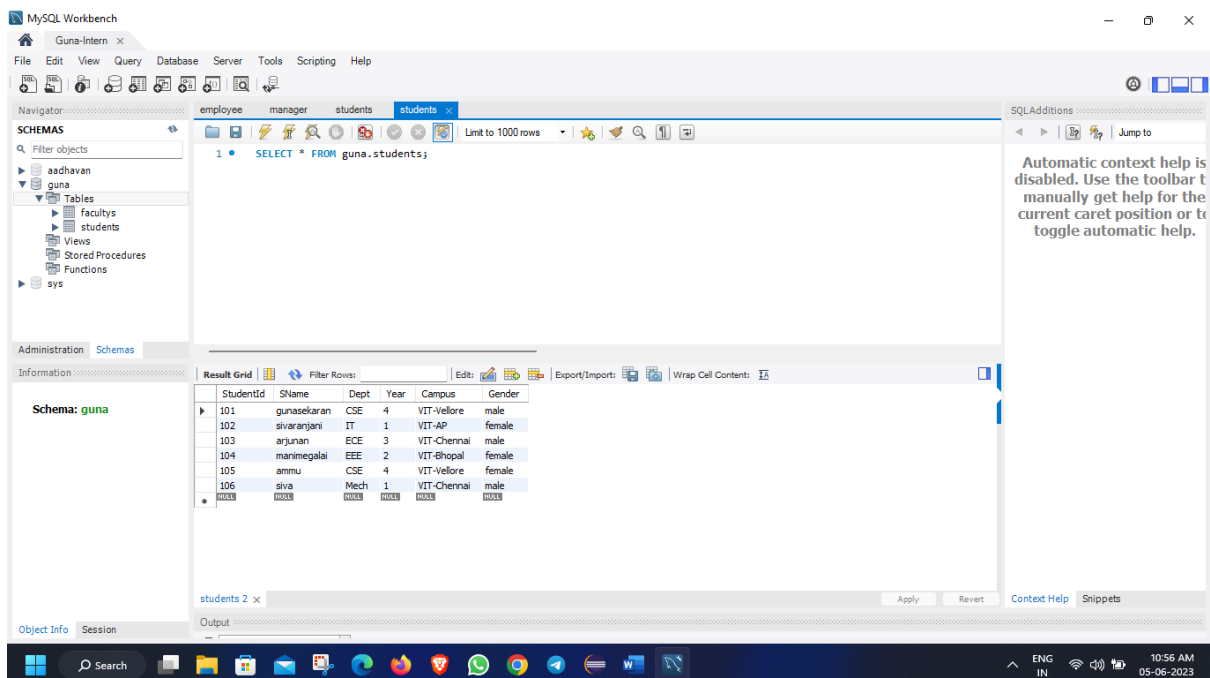
Output:



```
1 package intern;
2
3 import java.sql.Connection;
4 import java.sql.DriverManager;
5 import java.sql.ResultSet;
6 import java.sql.Statement;
7
8 public class insert_data {
9     public static void main(String args[]) {
10         try {
11             // 1.register the driver
12             Class.forName("com.mysql.jdbc.Driver");
13
14             // 2.connection
15             Connection conn = DriverManager.getConnection("jdbc:
16
17             // 3.Statement
18             Statement stmt = conn.createStatement();
19
20             // 4.Execute query
21             int rs = stmt.executeUpdate("insert into students
22
23             if (rs > 0)
24                 System.out.println("successfully inserted");
25             else
26                 System.out.println("unsuccessful insertion ");
27
28             // 5.close the connection
29             conn.close();
30         } catch (Exception e) {
31             e.printStackTrace();
32         }
33     }
34 }
```

<terminated> insert_data [Java Application] C:\Users\Gunasekaran A\p2\pool\...
Loading class 'com.mysql.jdbc.Driver'.
successfully inserted

Before:



MySQL Workbench

Guna-Intern x

File Edit View Query Database Server Tools Scripting Help

Navigator: employee manager students students x

Limit to 1000 rows

1 • SELECT * FROM guna.students;

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Schema: guna

StudentId	SName	Dept	Year	Campus	Gender
101	gunasekaran	CSE	4	VIT-Vellore	male
102	sivaranjani	IT	1	VIT-AP	female
103	arjunan	ECE	3	VIT-Chennai	male
104	marimegalai	EEE	2	VIT-Bhopal	female
105	ammu	CSE	4	VIT-Vellore	female
106	siva	Mech	1	VIT-Chennai	male

students 2 x

Output

After:

The screenshot displays the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar shows the 'SCHEMAS' panel with a tree view of databases (aadhavan, guna) and tables (facultys, students). The 'Information' panel shows the 'Schema: guna'.

The main query editor displays the following SQL query:

```
1 • SELECT * FROM guna.students;
```

The 'Result Grid' shows the following data:

StudentId	SName	Dept	Year	Campus	Gender
101	gunasekaran	CSE	4	VIT-Vellore	male
102	sivaranjani	IT	1	VIT-AP	female
103	arjunan	ECE	3	VIT-Chennai	male
104	marimegalai	EEE	2	VIT-Bhopal	female
105	ammu	CSE	4	VIT-Vellore	female
106	siva	Mech	1	VIT-Chennai	male
107	ram	CSE	3	VIT-AP	male

The bottom status bar shows the 'students 3' tab, 'Apply' and 'Revert' buttons, and 'Context Help' and 'Snippets' links. The system tray at the bottom right indicates the time as 10:57 AM on 05-06-2023.