

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

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Google Drive Link:

https://drive.google.com/drive/folders/1xaY62gdQ0tlUOf0ZUIJZE5dnZInPuSAk?usp=share_link

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

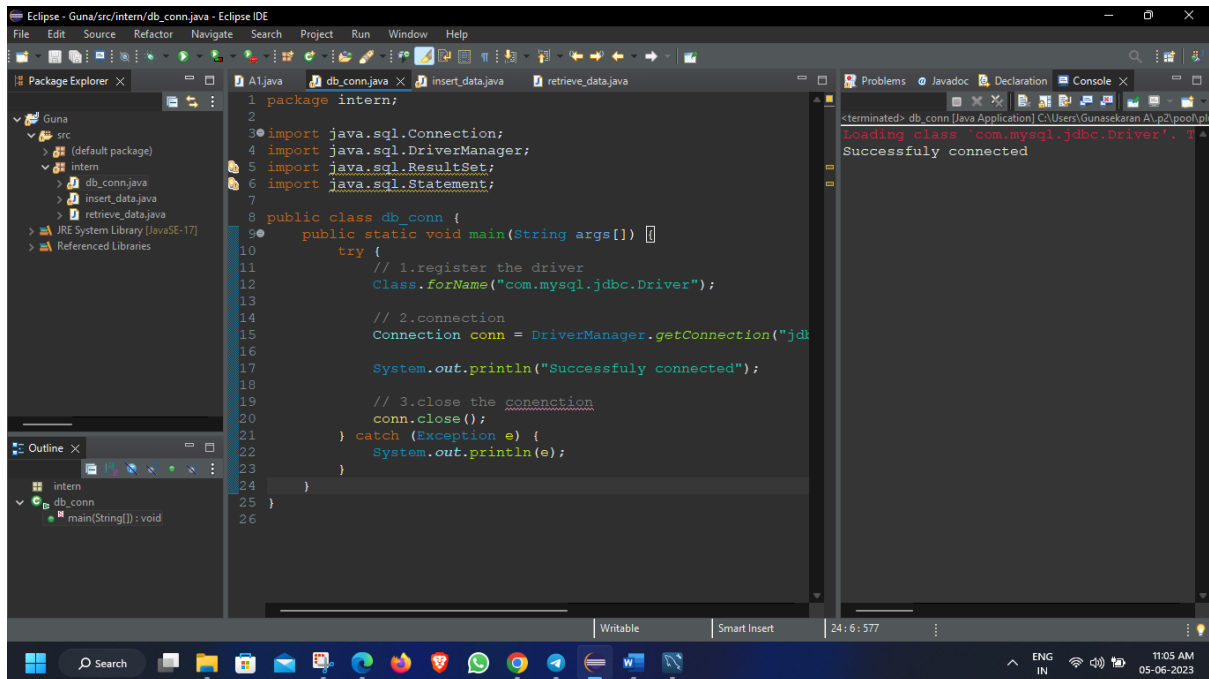
            conn.close();
```

```

    } 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);

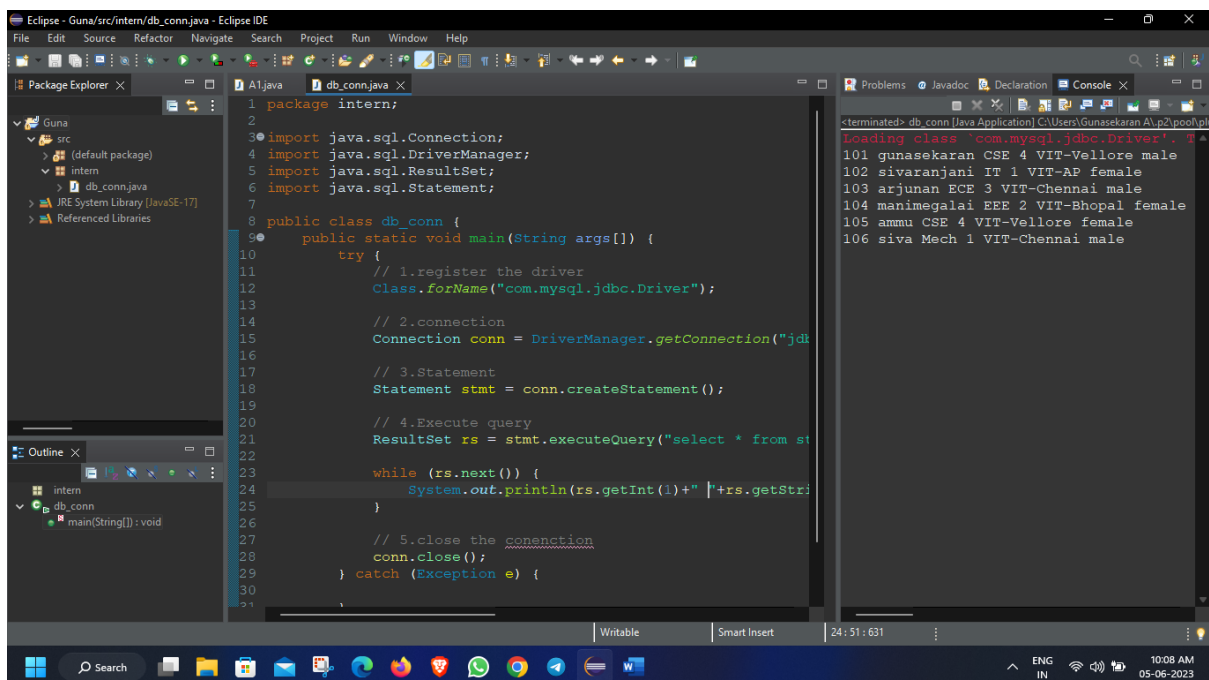
    }

}

}

```

Output:



The screenshot shows the Eclipse IDE with a Java project named 'Guna'. The source code in 'db_conn.java' is as follows:

```

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

```

The console output shows the following student records:

```

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) {

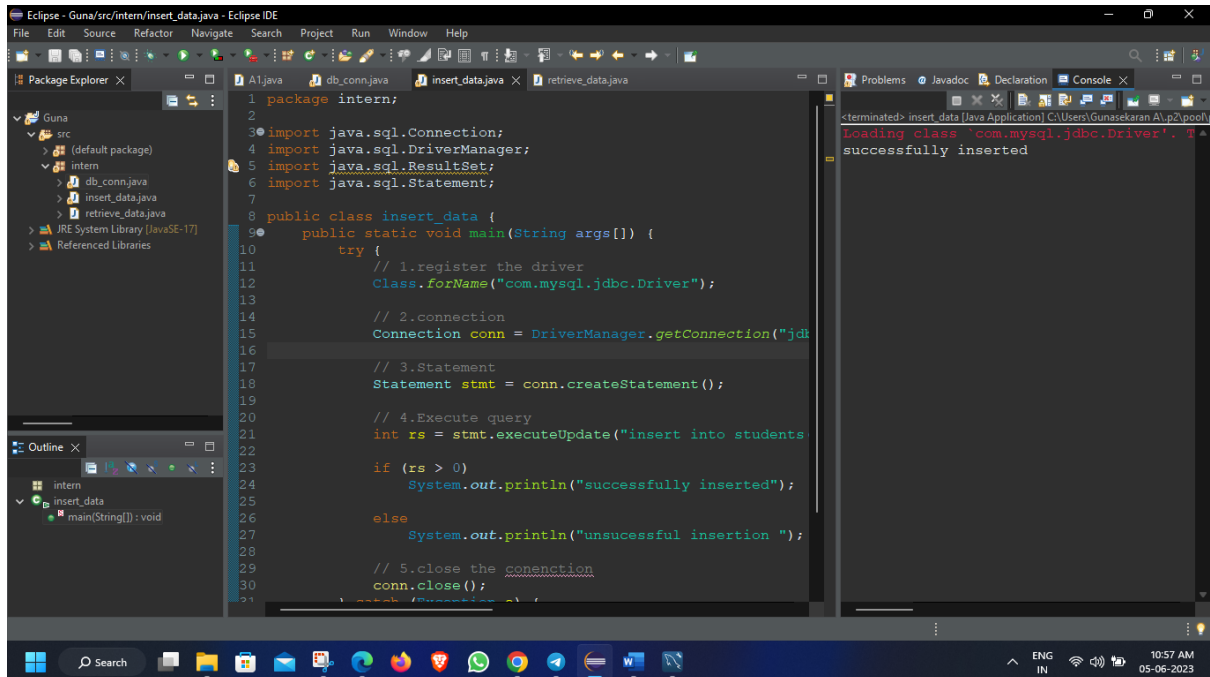
            System.out.println(e);

        }

    }

}
```

Output:

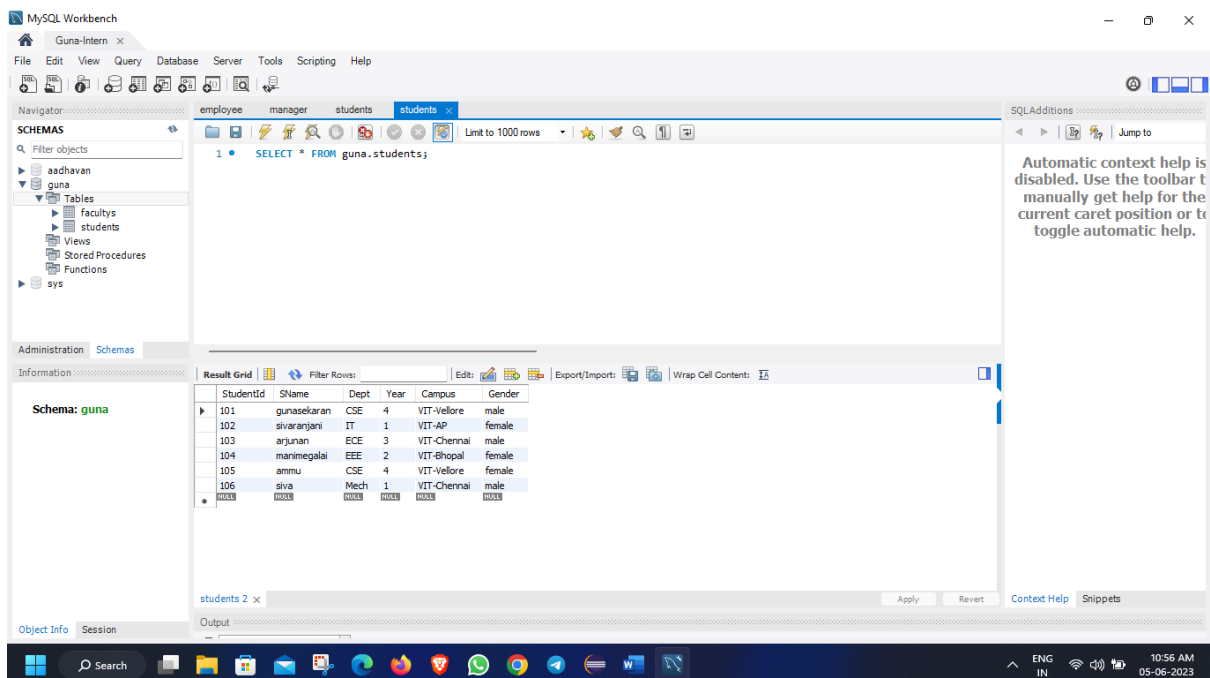


```
1 package intern;
2
3 import java.sql.Connection;
4 import java.sql.DriverManager;
5 import java.sql.ResultSet;
6 import java.sql.Statement;
7
8 public class insert_data {
9     public static void main(String args[]) {
10         try {
11             // 1.register the driver
12             Class.forName("com.mysql.jdbc.Driver");
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 }
```

Console Output:

```
<terminated> insert_data [Java Application] C:\Users\Gunasekaran A\p2\pool\
Loading class 'com.mysql.jdbc.Driver'. T
successfully inserted
```

Before:



MySQL Workbench - Guna-Intern

Navigator: employee manager students students

SCHEMAS: Filter objects

- guna
- Tables
 - faculty
 - students
- Views
- Stored Procedures
- Functions

Administration: Schemas

Information: Schema: guna

Result Grid: Filter Rows

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: Apply Revert Context Help Snippets

After:

The screenshot displays the MySQL Workbench interface. The 'Schemas' pane on the left shows the 'guna' database selected. The 'Query' editor in the center contains the SQL statement: `SELECT * FROM guna.students;`. The 'Result Grid' at the bottom shows the data returned by the query, which includes 7 rows of student information. The 'SQLAdditions' pane on the right contains a message: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.'

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	Medi	1	VIT-Chennai	male
107	ram	CSE	3	VIT-AP	male