

# ASSIGNMENT 3

## JAVA SPRING BOOT

Name:G.Somesh(20BEC0059)

Email-id: [gurram.somesh2020@vitstudent.ac.in](mailto:gurram.somesh2020@vitstudent.ac.in)

### CODE:

```
package fat;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.Scanner;

public class thd {
    public static void main(String[] args) {
        int login, user_login, event = 0;
        Scanner sc = new Scanner(System.in);
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/s
tu", "root", "somu@123");
            System.out.println("Enter 1 for user login");
            System.out.println("Enter 2 for admin login");
            login = sc.nextInt();
            if (login == 1) {
                System.out.println("Enter 1 for new record
entry");
                System.out.println("Enter 2 for user
updation");

                event = sc.nextInt();
                if (event == 1) {
                    System.out.println("Enter user id");
                    String a = sc.next();
```

```

        System.out.println("Enter user name");
        String b = sc.next();
        System.out.println("Enter user age");
        int c = sc.nextInt();
        System.out.println("Enter user phone
number");

        long d = sc.nextLong();

        String sql = "INSERT INTO students
(id, name, age, phonenumber) VALUES (?, ?, ?, ?)";
        PreparedStatement statement =
conn.prepareStatement(sql);
        statement.setString(1, a);
        statement.setString(2, b);
        statement.setInt(3, c);
        statement.setLong(4, d);

        int rowsInserted =
statement.executeUpdate();
        if (rowsInserted > 0) {
            System.out.println("A new record
has been inserted successfully.");
        }

        statement.close();
    } else {
        System.out.println("Enter the user id
to update");

        String id = sc.next();
        System.out.println("Enter new user
name");

        String name = sc.next();
        System.out.println("Enter new user
age");

        int age = sc.nextInt();
        System.out.println("Enter new user
phone number");

        long phoneNumber = sc.nextLong();

        String sql = "UPDATE students SET
name=?, age=?, phonenumber=? WHERE id=?";

```

```

        PreparedStatement statement =
conn.prepareStatement(sql);
        statement.setString(1, name);
        statement.setInt(2, age);
        statement.setLong(3, phoneNumber);
        statement.setString(4, id);

        int rowsUpdated =
statement.executeUpdate();
        if (rowsUpdated > 0) {
            System.out.println("User details
have been updated successfully.");
        } else {
            System.out.println("No user found
with the provided ID.");
        }

    }
} else if (login == 2) {

    // Operations for admin login
    System.out.println("Enter 1 to show the all
records");
    System.out.println("Enter 2 to drop
records");

    int f=sc.nextInt();
    if(f==1) {
        String sql = ("SELECT *FROM students");
        PreparedStatement statement =
conn.prepareStatement(sql);
        ResultSet resultSet =
statement.executeQuery();

        while (resultSet.next()) {
            String id =
resultSet.getString("id");
            String name =
resultSet.getString("name");
            int age = resultSet.getInt("age");

```

```

        long phoneNumber =
resultSet.getLong("phonenumber");

        System.out.println("ID: " + id +
", Name: " + name + ", Age: " + age + ", Phone Number: " +
phoneNumber);
    }
}
else {
    String sql = "DROP TABLE students";
    PreparedStatement statement =
conn.prepareStatement(sql);
    statement.executeUpdate();

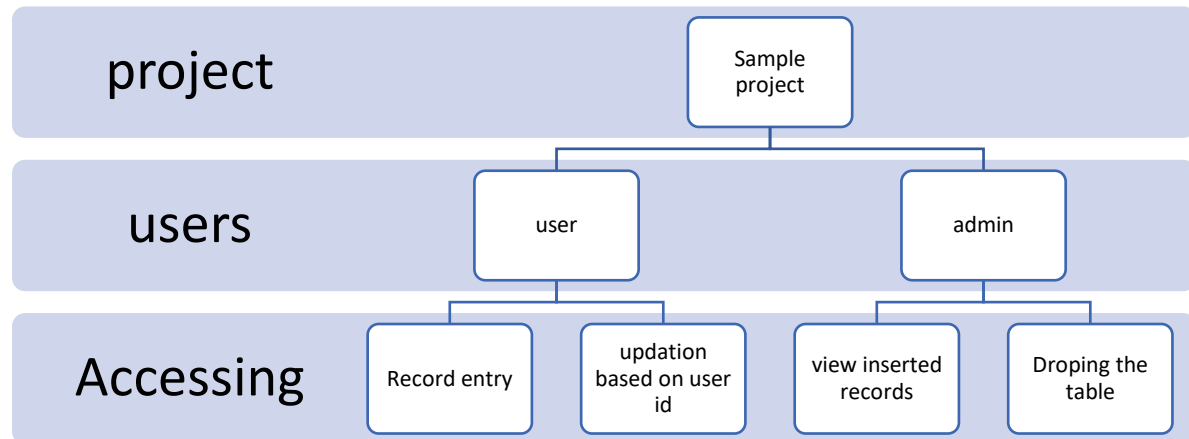
    System.out.println("The table
'students' has been dropped.");
}

} else {
    System.out.println(" Invalid login option");
}

    conn.close();
} catch (ClassNotFoundException e) {
    System.out.println("Error occurred while
loading the driver: " + e.getMessage());
} catch (SQLException e) {
    System.out.println("Error occurred while
connecting to the database: " + e.getMessage());
}
}
}

```

## Designed Architecture:

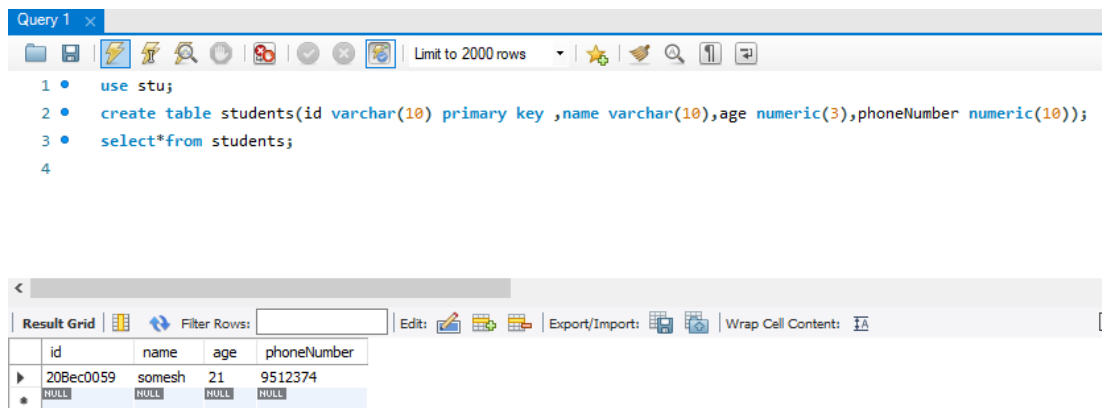


## Output samples:

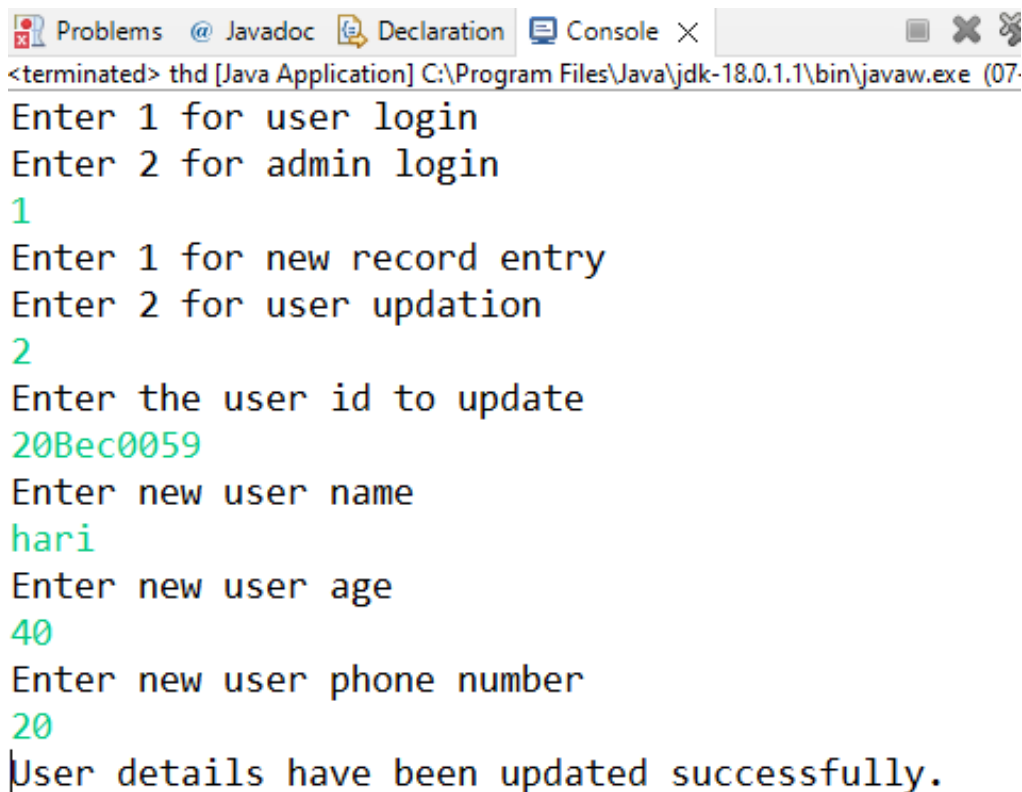
### 1 a)user record entry: Java console

```
Problems @ Javadoc Declaration Console X
<terminated> thd [Java Application] C:\Program Files\Java\jdk-18.0.1.1\bin\javaw.exe (0
Enter 1 for user login
Enter 2 for admin login
1
Enter 1 for new record entry
Enter 2 for user updation
1
Enter user id
20Bec0059
Enter user name
somesesh
Enter user age
21
Enter user phone number
9512374
A new record has been inserted successfully.
```

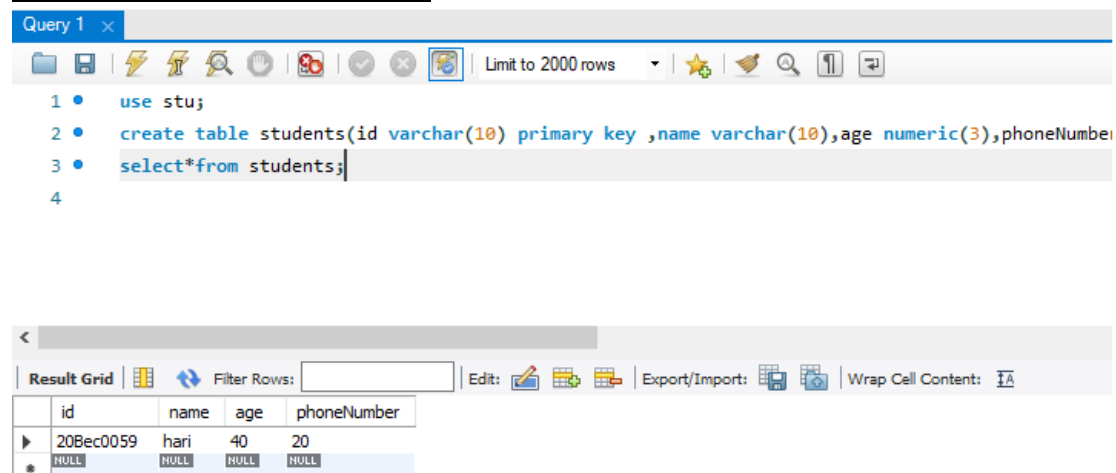
### Sql console:



## 1 b) user updation: Eclipse console



## Sql workbench console:



## 2a)admin viewing inserted records:

### For 1 record:

<terminated> thd [Java Application] C:\Program Files\Java\jdk-18.0.1.1\bin\javaw.exe (07-Jun-2023, 7:34)

Enter 1 for user login

Enter 2 for admin login

2

Enter 1 to show the all records

Enter 2 to drop records

1

ID: 20Bec0059, Name: hari, Age: 40, Phone Number: 20

### For so many records:

Enter 1 for user login

Enter 2 for admin login

2

Enter 1 to show the all records

Enter 2 to drop records

1

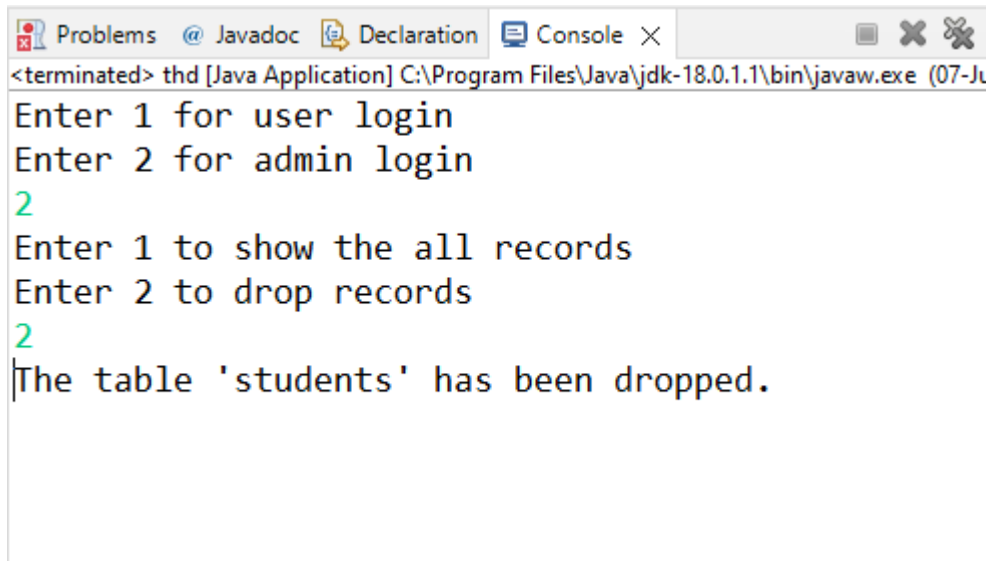
ID: 20MIS035, Name: mahesh, Age: 45, Phone Number: 8008221506

ID: 20MIS0374, Name: akula, Age: 20, Phone Number: 954123388

ID: 20MIS045, Name: hari, Age: 45, Phone Number: 8008221506

ID: 20MIS048, Name: raju, Age: 45, Phone Number: 8008221506

## 2b) Dropping table:



```
Problems @ Javadoc Declaration Console X
<terminated> thd [Java Application] C:\Program Files\Java\jdk-18.0.1.1\bin\javaw.exe (07-Ju
Enter 1 for user login
Enter 2 for admin login
2
Enter 1 to show the all records
Enter 2 to drop records
2
The table 'students' has been dropped.
```

\*\*\*\*\*Thank you\*\*\*\*\*