


```

        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=?";

```

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        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");

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        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();

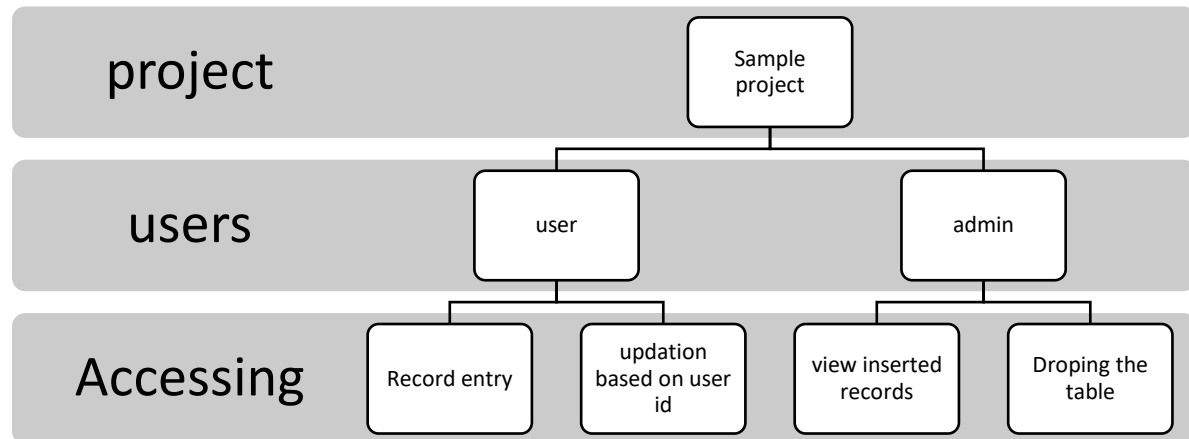
        System.out.println("The table
'students' has been dropped.");
    }

    } 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:

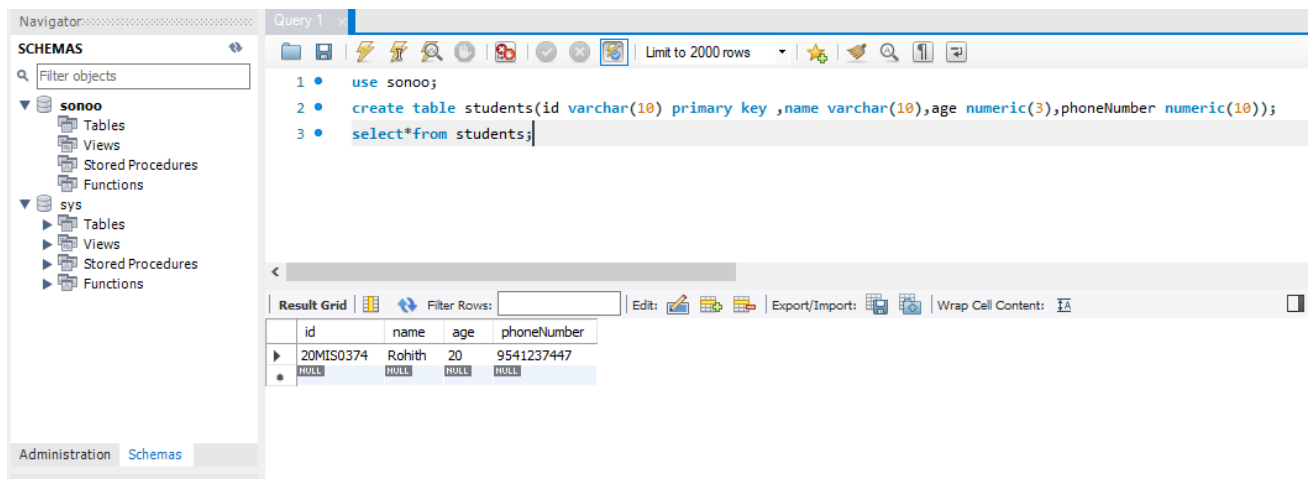


Output samples:

1 a)user record entry: Java console

```
<terminated> thd [Java Application] C:\Program Files\Java\jdk-18.0.1.1\bin\javaw.exe (07-Jun-2023, 7:05:30 pm - 7:05:30 pm)
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
20MIS0374
Enter user name
Rohith
Enter user age
20
Enter user phone number
9541237447
A new record has been inserted successfully.
|
```

Sql console:



1 b) user updation: Eclipse console

Enter 1 for user login

Enter 2 for admin login

1

Enter 1 for new record entry

Enter 2 for user updation

2

Enter the user id to update

20MIS0374

Enter new user name

akula

Enter new user age

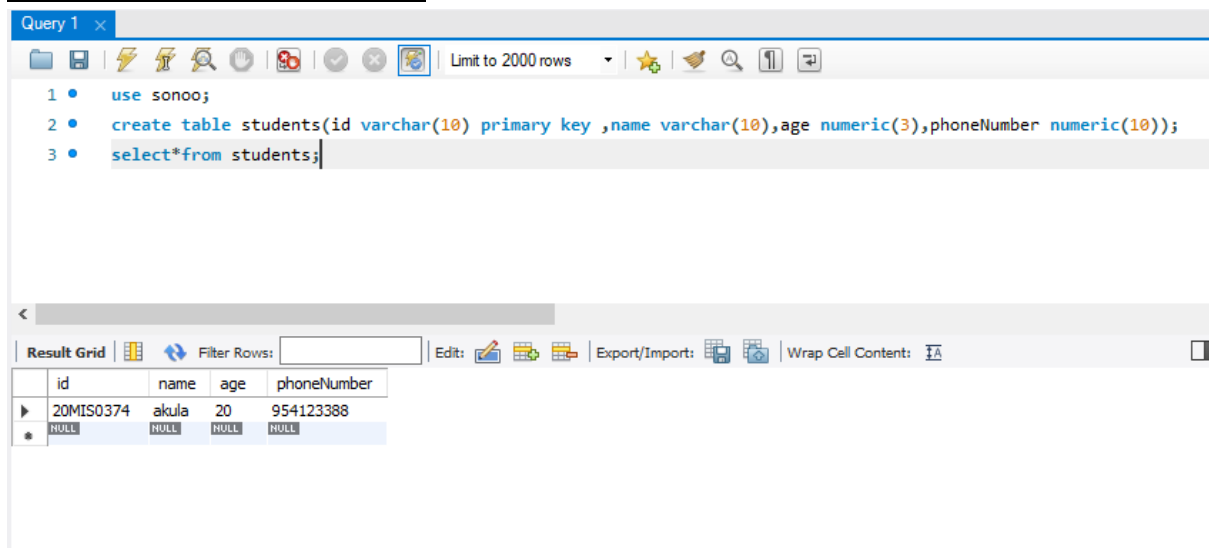
20

Enter new user phone number

954123388

User details have been updated successfully.

Sql workbench console:



2a)admin viewing inserted records:

For 1 record:

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

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

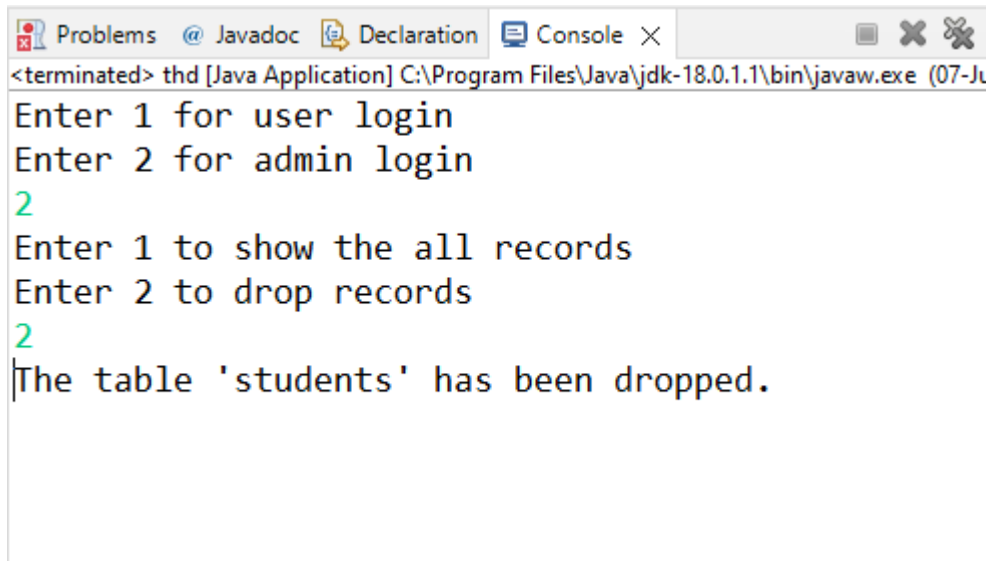
ID: 20MIS035, Name: mahesh, Age: 45, Phone Number: 8008221506

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:

A screenshot of a Java IDE's console window. The window has tabs for 'Problems', 'Javadoc', 'Declaration', and 'Console'. The 'Console' tab is active, showing the output of a Java application. The text in the console is as follows:

```
<terminated> thd [Java Application] C:\Program Files\Java\jdk-18.0.1.1\bin\javaw.exe (07-Ju-2024 14:00:00)  
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*****