Assignment 3

Java spring boot

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CODE:-

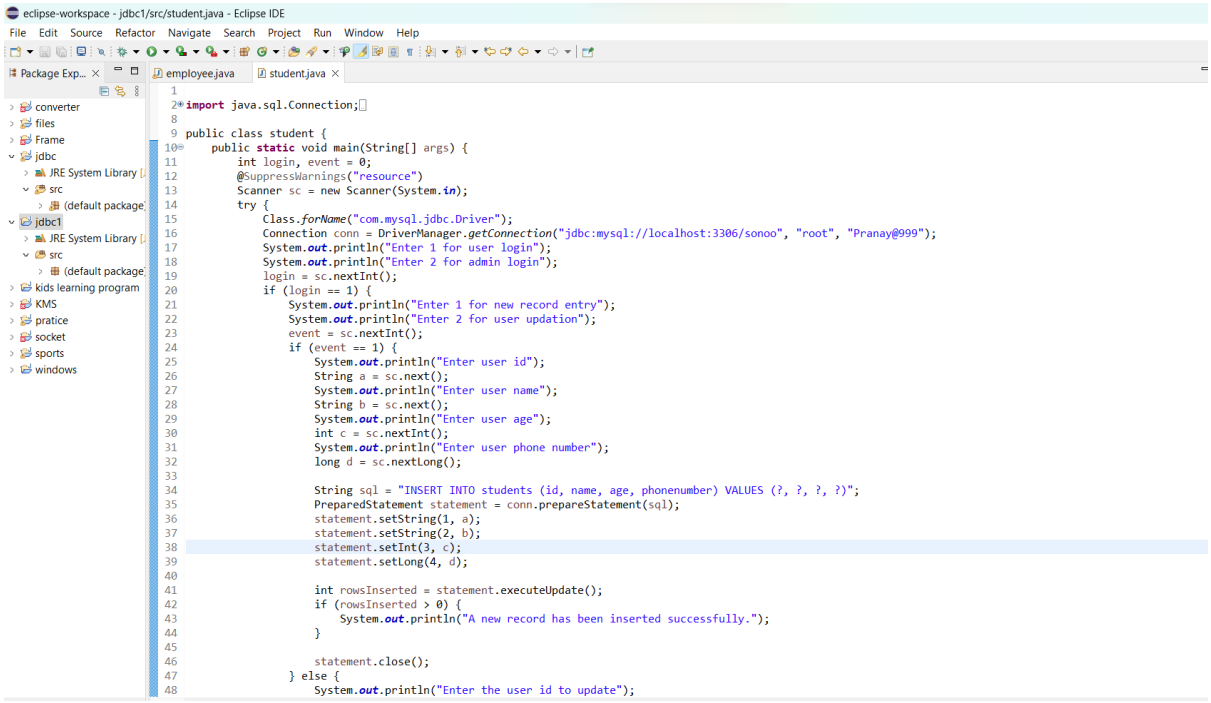
```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.Scanner;

public class student {
   public static void main(String[] args) {
      int login, event = 0;
      @SuppressWarnings("resource")
                  Scanner sc = new Scanner(System.in);
      try {
         Class.forName("com.mysql.jdbc.Driver");
         Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/sonoo",
"root", "Pranay@999");
         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");
```

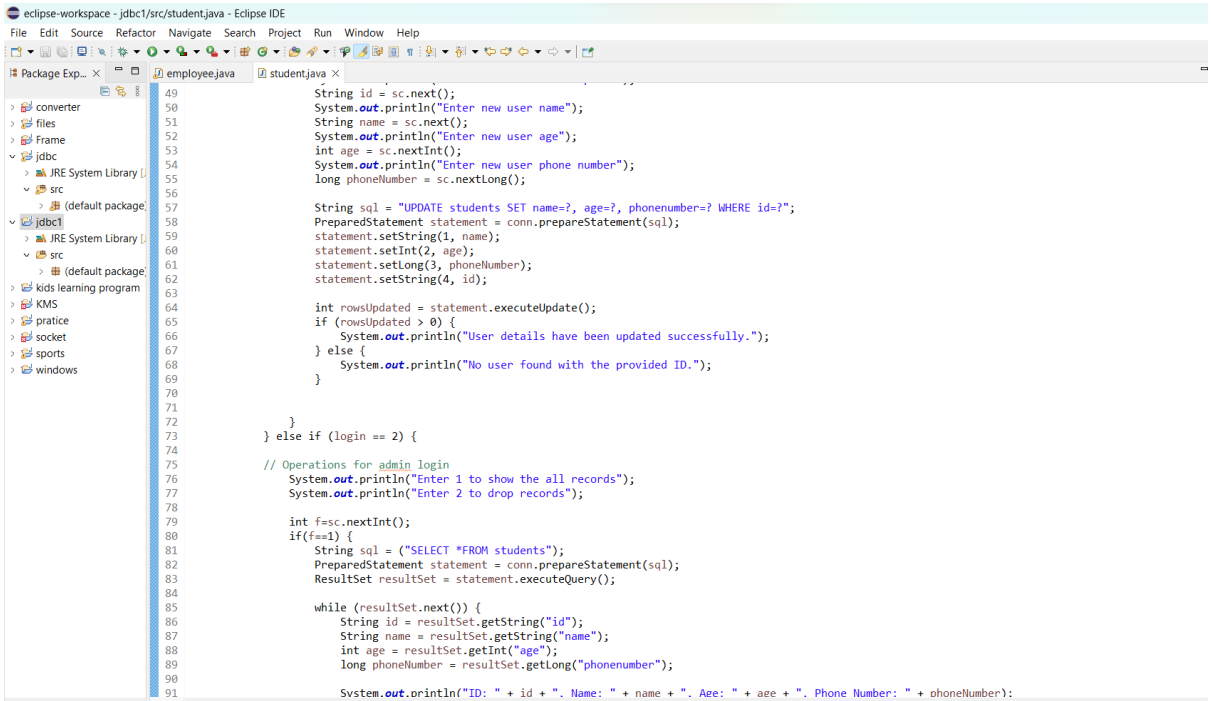
```
    int c = sc.nextInt();
    System.out.println("Enter user phone number");
    long d = sc.nextLong();

    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);
```

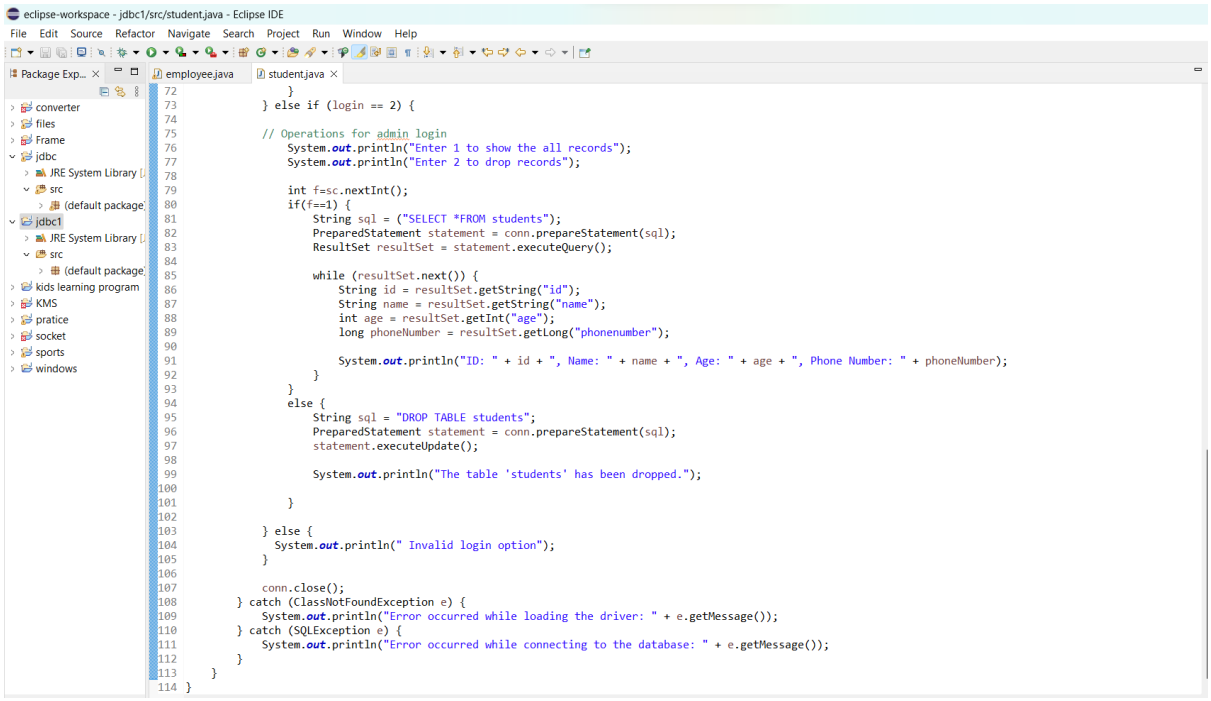
```
        statement.setLong(3, phoneNumber);
        statement.setString(4, id);

        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());
        }
    }
}
```

CODE SCREENSHOT:-

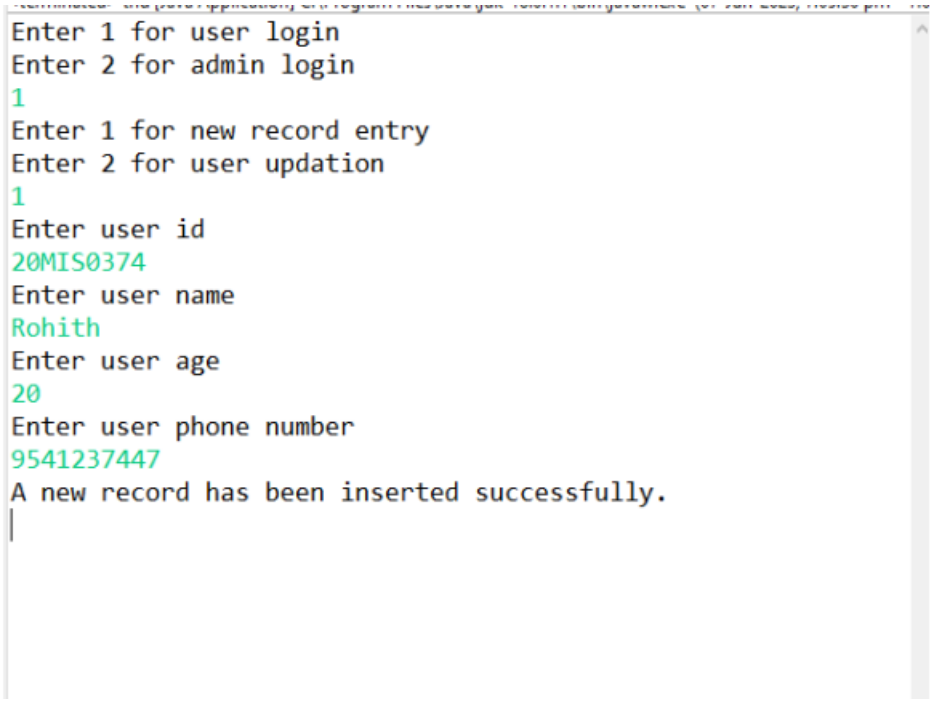




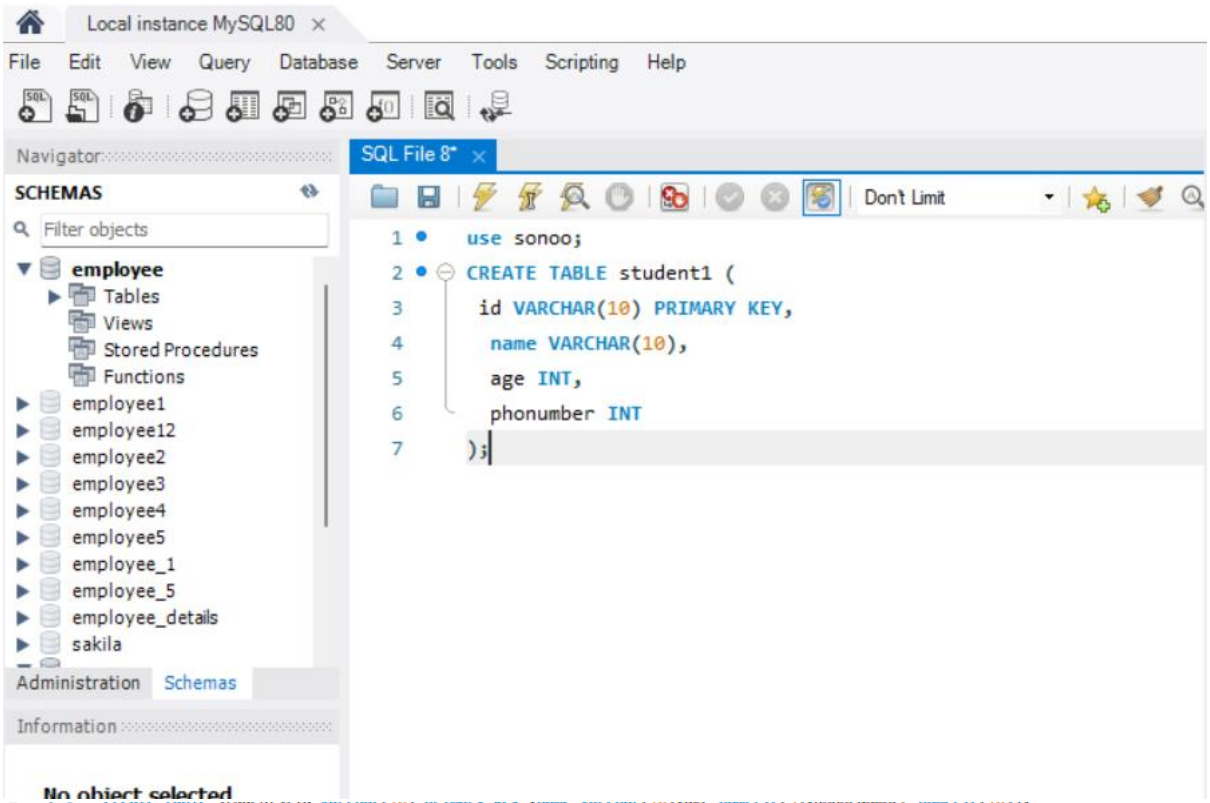


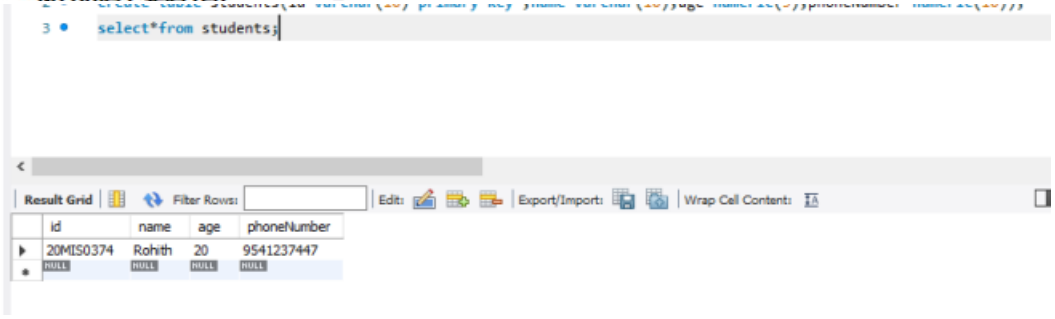
OUTPUT :

a)user record entry: Java console:



Sql console:


Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
employee
Tables
Views
Stored Procedures
Functions
employee1
employee12
employee2
employee3
employee4
employee5
employee_1
employee_5
employee_details
sakila
Administration Schemas
Information
No object selected
SQL File 8*
Don't Limit
1 use sonoo;
2 CREATE TABLE student1 (
3 id VARCHAR(10) PRIMARY KEY,
4 name VARCHAR(10),
5 age INT,
6 phonumber INT
7);


3 select*from students;
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
id
name
age
phoneNumber
20MIS0374
Rohith
20
9541237447
NULL

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:

```
3 •  select*from students;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

id	name	age	phoneNumber
20MIS0374	akula	20	954123388
NULL	NULL	NULL	NULL

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
```

Droping table:

```
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.
```