

Assignment 3

Java spring boot

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```
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();

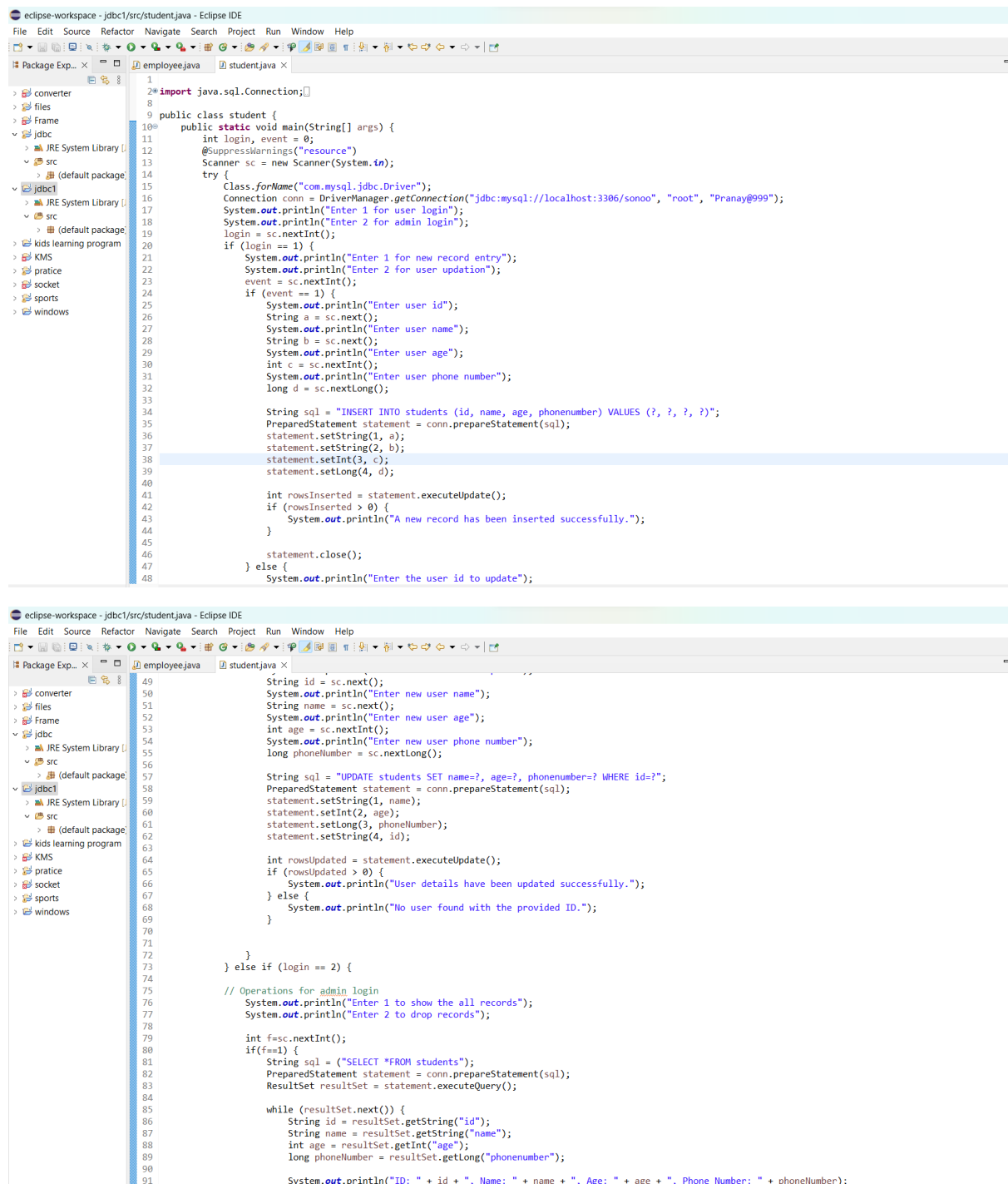
    System.out.println("The table 'students' has been dropped.");

}

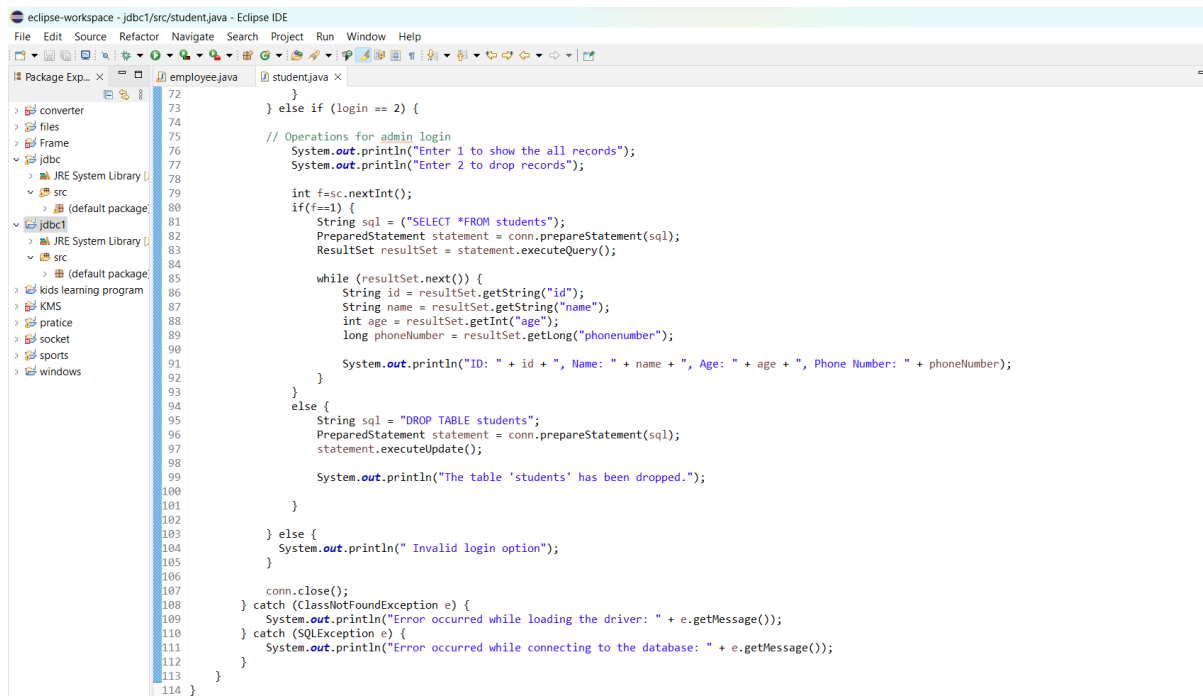
} else {
    System.out.println(" Invalid login option");
}

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:-



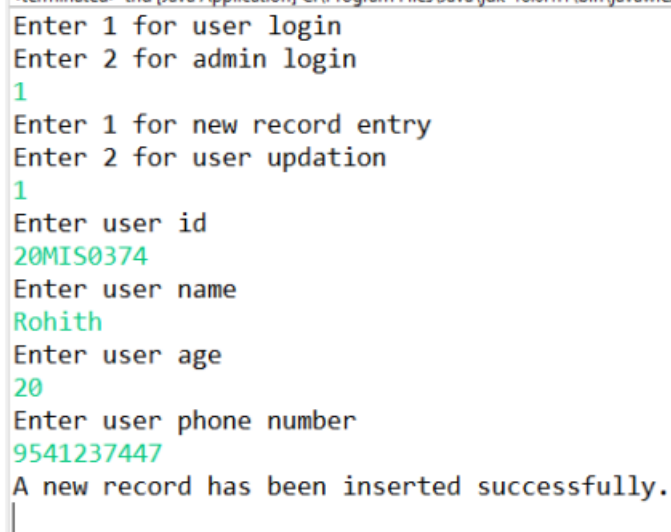
```
1
2 *import java.sql.Connection;[]
3
4
5
6
7
8
9 public class student {
10
11     public static void main(String[] args) {
12         int login, event = 0;
13         @SuppressWarnings("resource")
14         Scanner sc = new Scanner(System.in);
15         try {
16             Class.forName("com.mysql.jdbc.Driver");
17             Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/sonoo", "root", "Pranay999");
18             System.out.println("Enter 1 for user login");
19             System.out.println("Enter 2 for admin login");
20             login = sc.nextInt();
21             if (login == 1) {
22                 System.out.println("Enter 1 for new record entry");
23                 System.out.println("Enter 2 for user updation");
24                 event = sc.nextInt();
25                 if (event == 1) {
26                     System.out.println("Enter user id");
27                     String a = sc.next();
28                     System.out.println("Enter user name");
29                     String b = sc.next();
30                     System.out.println("Enter user age");
31                     int c = sc.nextInt();
32                     System.out.println("Enter user phone number");
33                     long d = sc.nextLong();
34
35                     String sql = "INSERT INTO students (id, name, age, phonenumber) VALUES (?, ?, ?, ?)";
36                     PreparedStatement statement = conn.prepareStatement(sql);
37                     statement.setString(1, a);
38                     statement.setString(2, b);
39                     statement.setInt(3, c);
40                     statement.setLong(4, d);
41
42                     int rowsInserted = statement.executeUpdate();
43                     if (rowsInserted > 0) {
44                         System.out.println("A new record has been inserted successfully.");
45                     }
46                     statement.close();
47                 } else {
48                     System.out.println("Enter the user id to update");
49
50                     String id = sc.next();
51                     System.out.println("Enter new user name");
52                     String name = sc.next();
53                     System.out.println("Enter new user age");
54                     int age = sc.nextInt();
55                     System.out.println("Enter new user phone number");
56                     long phonenumber = sc.nextLong();
57
58                     String sql = "UPDATE students SET name=?, age=?, phonenumber=? WHERE id=?";
59                     PreparedStatement statement = conn.prepareStatement(sql);
60                     statement.setString(1, name);
61                     statement.setInt(2, age);
62                     statement.setLong(3, phonenumber);
63                     statement.setString(4, id);
64
65                     int rowsUpdated = statement.executeUpdate();
66                     if (rowsUpdated > 0) {
67                         System.out.println("User details have been updated successfully.");
68                     } else {
69                         System.out.println("No user found with the provided ID.");
70                     }
71                 }
72             } else if (login == 2) {
73                 // Operations for admin login
74                 System.out.println("Enter 1 to show the all records");
75                 System.out.println("Enter 2 to drop records");
76
77                 int f=sc.nextInt();
78                 if(f==1) {
79                     String sql = ("SELECT *FROM students");
80                     PreparedStatement statement = conn.prepareStatement(sql);
81                     ResultSet resultSet = statement.executeQuery();
82
83                     while (resultSet.next()) {
84                         String id = resultSet.getString("id");
85                         String name = resultSet.getString("name");
86                         int age = resultSet.getInt("age");
87                         long phoneNumber = resultSet.getLong("phonenumber");
88
89                         System.out.println("ID: " + id + ", Name: " + name + ", Age: " + age + ", Phone Number: " + phoneNumber);
90                     }
91                 }
92             }
93         } catch (Exception e) {
94             e.printStackTrace();
95         }
96     }
97 }
```



```
72 }
73 } else if (login == 2) {
74
75 // Operations for admin login
76 System.out.println("Enter 1 to show the all records");
77 System.out.println("Enter 2 to drop records");
78
79 int f=sc.nextInt();
80 if(f==1) {
81     String sql = ("SELECT *FROM students");
82     PreparedStatement statement = conn.prepareStatement(sql);
83     ResultSet resultSet = statement.executeQuery();
84
85     while (resultSet.next()) {
86         String id = resultSet.getString("id");
87         String name = resultSet.getString("name");
88         int age = resultSet.getInt("age");
89         long phoneNumber = resultSet.getLong("phoneNumber");
90
91         System.out.println("ID: " + id + ", Name: " + name + ", Age: " + age + ", Phone Number: " + phoneNumber);
92     }
93 }
94 } else {
95     String sql = "DROP TABLE students";
96     PreparedStatement statement = conn.prepareStatement(sql);
97     statement.executeUpdate();
98
99     System.out.println("The table 'students' has been dropped.");
100 }
101
102 } else {
103     System.out.println(" Invalid login option");
104 }
105
106 conn.close();
107 } catch (ClassNotFoundException e) {
108     System.out.println("Error occurred while loading the driver: " + e.getMessage());
109 } catch (SQLException e) {
110     System.out.println("Error occurred while connecting to the database: " + e.getMessage());
111 }
112 }
113 }
114 }
```

OUTPUT :

a)user record entry: Java console:



```
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:

The screenshot shows the MySQL Workbench interface for a local instance of MySQL 8.0. The 'SCHEMAS' pane on the left lists various databases, including 'employee' and 'sakila'. The 'SQL File 8' tab is active in the console, displaying a SQL script that creates a table named 'student1' with columns 'id', 'name', 'age', and 'phonumber'. The script is as follows:

```
1 • use sonoo;  
2 • CREATE TABLE student1 (  
3     id VARCHAR(10) PRIMARY KEY,  
4     name VARCHAR(10),  
5     age INT,  
6     phonumber INT  
7 • );
```

Below the console, the 'Information' pane shows the message 'No object selected'. The 'Result Grid' at the bottom displays the results of a query, showing a single row with the following data:


id	name	age	phoneNumber
20MIS0374	Rohith	20	9541237447

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;
```



The screenshot shows the SQL Workbench interface. At the top, there's a toolbar with icons for Result Grid, Filter Rows, Edit, Export/Import, and Wrap Cell Content. Below the toolbar is a table with the following data:

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

Dropping 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.