Add EmployeeData from user into database and perform CRUD Operations

```java
package com.JDBCAssignment;

import java.sql.Connection;

public class JDBC_Methods {

    String url = "jdbc:mysql://localhost:3306/sqldemo";
    String username = "root";
    String password = "root";

    Employee emp = new Employee();

    // Add data to datatbase
    public void setdata() throws ClassNotFoundException, SQLException {
        while (true) {
            Class.forName("com.mysql.jdbc.Driver");// 1.load driver class
            Connection con = DriverManager.getConnection(url, username, password);// 2.Establish connection
            Scanner sc = new Scanner(System.in);
            System.out.println("Want to add data press Y/N");
            char a = sc.next().charAt(0);
            if (a == 'Y') {
                System.out.println("Enter id");
                int Eid = sc.nextInt();

                System.out.println("Enter name");
                String Ename = sc.next();

                System.out.println("Enter Address");
                String Eaddress = sc.next();

                System.out.println("Enter salary");
                long Esalary = sc.nextLong();
                String sql = "insert into EmployeeData values( " + Eid + "  ,' " + Ename + " ',' " + Eaddress + " ',' "
                        + Esalary + " ')";// 3.Create query

                Statement smt = con.createStatement();// 4.create statement

                smt.execute(sql);// 5.submit query

                con.close();// 6.close connection
                smt.close();

                System.out.println("Successfully add data");
            } else if (a == 'N') {
                break;
            } else {
                System.out.println("Invalid Input");
            }

        }
    }

    // get data from database
    public void getdata() {
        try {
            while (true) {
            Class.forName("com.mysql.jdbc.Driver");// 1.
            Connection con = DriverManager.getConnection(url, username, password);// 2.
            Scanner sc1 = new Scanner(System.in);
                System.out.println("Want to get data \n0. Exit \n1. Get all data \n2. Get single Id data");
                int i = sc1.nextInt();
                if (i == 1) {

                    String sql = "Select * from EmployeeData";// 3.
                    Statement smt = con.createStatement();// 4.
                    ResultSet rs = smt.executeQuery(sql);// 5. submit SQL query
                    while (rs.next()) {
                        System.out.println(rs.getInt(1));
                        System.out.println(rs.getString(2));
                        System.out.println(rs.getString(3));
                        System.out.println(rs.getLong(4));
                        System.out.println();
                    }

                    smt.close();
                    con.close();
```

```
                    con.close();

                } else if (i == 2) {
                    System.out.println("Enter Eid");
                    int Eid = sc1.nextInt();
                    String sql = "Select * from EmployeeData where Eid= " + Eid + " ";
                    Statement smt = con.createStatement();
                    ResultSet rs = smt.executeQuery(sql);// 5. submit SQL query
                    while (rs.next()) {
                        System.out.println(rs.getInt(1));
                        System.out.println(rs.getString(2));
                        System.out.println(rs.getString(3));
                        System.out.println(rs.getLong(4));
                        System.out.println();
                    }

                    smt.close();
                    con.close();

                } else if (i == 0) {
                    break;
                } else {
                    System.out.println("Invalid Input");
                }
            }

        } catch (ClassNotFoundException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        } catch (SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }

    }

    // Update/replace data to database
    public void updateData() {
        try {
```



```
            e.printStackTrace();
        }

    }

    // Update/replace data to database
    public void updateData() {
        try {
            while (true) {
            Class.forName("com.mysql.jdbc.Driver");
            Connection con = DriverManager.getConnection(url, username, password);
            Scanner sc2 = new Scanner(System.in);
                System.out.println("Want to update data Press Y/N");
                char a = sc2.next().charAt(0);
                if (a == 'Y') {
                    System.out.println("Enter name");
                    String Ename = sc2.next();

                    System.out.println("Enter Address");
                    String Eaddress = sc2.next();

                    System.out.println("Enter salary");
                    long Esalary = sc2.nextLong();

                    System.out.println("Enter Eid");
                    int Eid = sc2.nextInt();

                    String sql = "update EmployeeData set Ename=' " + Ename + " ',Eaddress=' " + Eaddress
                            + " ' ,Esalary=" + Esalary + " where Eid=" + Eid + " ";
                    Statement smt = con.createStatement();
                    smt.execute(sql);// 5. submit SQL query

                    smt.close();
                    con.close();

                    System.out.println("Update success");

                } else if (a == 'N') {
                    break;
```

```
149                 } else if (a == 'N') {
150                     break;
151                 } else {
152                     System.out.println("Invalid Input");
153                 }
154             }
155         } catch (ClassNotFoundException e) {
156             // TODO Auto-generated catch block
157             e.printStackTrace();
158         } catch (SQLException e) {
159             // TODO Auto-generated catch block
160             e.printStackTrace();
161         }
162     }
163 
164     // Delete data from database
165     public void deleteData() {
166         try {
167             while (true) {
168             Class.forName("com.mysql.jdbc.Driver");// 1.
169             Connection con = DriverManager.getConnection(url, username, password);// 2.
170             Scanner sc2 = new Scanner(System.in);
171 
172                 Scanner sc3 = new Scanner(System.in);
173                 System.out.println("Want to Delete data Press Y/N");
174                 char a = sc3.next().charAt(0);
175                 if (a == 'Y') {
176                     System.out.println("Enter Eid");
177                     int Eid = sc3.nextInt();
178                     String sql = "Delete from EmployeeData where Eid= " + Eid + " ";// 3.
179                     Statement smt = con.createStatement();// 4.
180                     smt.execute(sql);// 5. submit SQL query
181                     con.close();// 6.
182                     smt.close();
183                     System.out.println("Delete success");
184                 } else if (a == 'N') {
185                     break;
186                 } else {
187                     System.out.println("Invalid Input");
```



```
                smt.close();
                System.out.println("Delete success");
            } else if (a == 'N') {
                break;
            } else {
                System.out.println("Invalid Input");
            }
        }
    } catch (ClassNotFoundException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    } catch (SQLException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
  }
}
```

Main Class.

```java
package com.JDBCAssignment;

import java.sql.SQLException;

public class EmployeeMain {
    public static void main(String[] args) throws ClassNotFoundException, SQLException {
        JDBC_Methods j=new JDBC_Methods();

        Scanner sc=new Scanner(System.in);
        while(true)
        {
        System.out.println("Enter your choice \n1. Add data \n2. Get data \n3. Update data \n4. Delete data");
        int i=sc.nextInt();

        switch(i)
        {
        case 1:
            j.setdata();
            break;

        case 2:
            j.getdata();
            break;

        case 3:
            j.updateData();
            break;

        case 4:
            j.deleteData();
            break;

        }
    }
    }

}
```

Output.

1. Set data

```
EmployeeMain (3) [Java Application] C:\Program Files\Ja

 Enter your choice
1. Add data
2. Get data
3. Update data
4. Delete data

1
Want to add data press Y/N
Y
Enter id
101
Enter name
Ram
Enter Address
Pune
Enter salary
20000
Successfully add data
Want to add data press Y/N
Y
Enter id
102
Enter name
Rahul
Enter Address
Nagpur
Enter salary
25000
Successfully add data
Want to add data press Y/N
Y
Enter id
103
Enter name
Amol
Enter Address
```

2.Get All data

```
Console
EmployeeMain (3) [Java Application] C:\Program Files\Java\jdk1.8.
103
Enter name
Amol
Enter Address
Mumbai
Enter salary
30000
Successfully add data
Want to add data press Y/N
N

 Enter your choice
1. Add data
2. Get data
3. Update data
4. Delete data

2
Want to get data
0. Exit
1. Get all data
2. Get single Id data
1
101
 Ram
 Pune
20000

102
 Rahul
 Nagpur
25000

103
 Amol
 Mumbai
30000
```

3.Get Single Id data

```
 Enter your choice
1. Add data
2. Get data
3. Update data
4. Delete data

2
Want to get data
0. Exit
1. Get all data
2. Get single Id data
2
Enter Eid
101
101
 Ram
 Pune
20000

Want to get data
0. Exit
1. Get all data
2. Get single Id data
0

 Enter your choice
1. Add data
2. Get data
3. Update data
4. Delete data

3
Want to update data Press Y/N
Y
Enter name
```

4. Update data and Check it

```
3
Want to update data Press Y/N
Y
Enter name
Mohan
Enter Address
Delhi
Enter salary
35000
Enter Eid
101
Update success
Want to update data Press Y/N
N

 Enter your choice
1. Add data
2. Get data
3. Update data
4. Delete data

2
Want to get data
0. Exit
1. Get all data
2. Get single Id data
2
Enter Eid
101
101
 Mohan
 Delhi
35000

Want to get data
```

5.Delete Data and Check it

```
EmployeeMain (3) [Java Application] C:\Program Files\Java\jdk1.8.0_202
1. Add data
2. Get data
3. Update data
4. Delete data

4
Want to Delete data Press Y/N
Y
Enter Eid
101
Delete success
Want to Delete data Press Y/N
N

 Enter your choice
1. Add data
2. Get data
3. Update data
4. Delete data

2
Want to get data
0. Exit
1. Get all data
2. Get single Id data
1
102
 Rahul
 Nagpur
25000

103
 Amol
 Mumbai
30000

Want to get data
0. Exit
```