

Add EmployeeData from user into database and perform CRUD Operations

```
1 package com.JDBCAssignment;
2
3 import java.sql.Connection;
4
5
6
7
8
9
10 public class JDBC_Methods {
11
12     String url = "jdbc:mysql://localhost:3306/sqldemo";
13     String username = "root";
14     String password = "root";
15
16     Employee emp = new Employee();
17
18     // Add data to database
19     public void setdata() throws ClassNotFoundException, SQLException {
20         while (true) {
21             Class.forName("com.mysql.jdbc.Driver");// 1.load driver class
22             Connection con = DriverManager.getConnection(url, username, password);// 2.Establish connection
23             Scanner sc = new Scanner(System.in);
24             System.out.println("Want to add data press Y/N");
25             char a = sc.next().charAt(0);
26             if (a == 'Y') {
27                 System.out.println("Enter id");
28                 int Eid = sc.nextInt();
29
30                 System.out.println("Enter name");
31                 String Ename = sc.next();
32
33                 System.out.println("Enter Address");
34                 String Eaddress = sc.next();
35
36                 System.out.println("Enter salary");
37                 long Esalary = sc.nextLong();
38                 String sql = "insert into EmployeeData values( " + Eid + " , ' " + Ename + " ', ' " + Eaddress + " ', ' "
39                     + Esalary + " '");// 3.Create query
40
41                 Statement smt = con.createStatement();// 4.create statement
42
43                 smt.execute(sql);// 5.submit query
44
45                 smt.execute(sql);// 5.submit query
46
47                 con.close();// 6.close connection
48                 smt.close();
49
50                 System.out.println("Successfully add data");
51             } else if (a == 'N') {
52                 break;
53             } else {
54                 System.out.println("Invalid Input");
55             }
56         }
57     }
58
59     // get data from database
60     public void getdata() {
61         try {
62             while (true) {
63                 Class.forName("com.mysql.jdbc.Driver");// 1.
64                 Connection con = DriverManager.getConnection(url, username, password);// 2.
65                 Scanner sc1 = new Scanner(System.in);
66                 System.out.println("Want to get data \n0. Exit \n1. Get all data \n2. Get single Id data");
67                 int i = sc1.nextInt();
68                 if (i == 1) {
69                     String sql = "Select * from EmployeeData";// 3.
70                     Statement smt = con.createStatement();// 4.
71                     ResultSet rs = smt.executeQuery(sql);// 5. submit SQL query
72                     while (rs.next()) {
73                         System.out.println(rs.getInt(1));
74                         System.out.println(rs.getString(2));
75                         System.out.println(rs.getString(3));
76                         System.out.println(rs.getLong(4));
77                         System.out.println();
78                     }
79
80                     smt.close();
81                     con.close();
82                 }
83             }
84         } catch (Exception e) {
85             e.printStackTrace();
86         }
87     }
88 }
```

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81         con.close();
82
83     } else if (i == 2) {
84         System.out.println("Enter Eid");
85         int Eid = sc1.nextInt();
86         String sql = "Select * from EmployeeData where Eid= " + Eid + " ";
87         Statement smt = con.createStatement();
88         ResultSet rs = smt.executeQuery(sql); // 5. submit SQL query
89         while (rs.next()) {
90             System.out.println(rs.getInt(1));
91             System.out.println(rs.getString(2));
92             System.out.println(rs.getString(3));
93             System.out.println(rs.getLong(4));
94             System.out.println();
95         }
96
97         smt.close();
98         con.close();
99
100     } else if (i == 0) {
101         break;
102     } else {
103         System.out.println("Invalid Input");
104     }
105 }
106
107 } catch (ClassNotFoundException e) {
108     // TODO Auto-generated catch block
109     e.printStackTrace();
110 } catch (SQLException e) {
111     // TODO Auto-generated catch block
112     e.printStackTrace();
113 }
114
115 }
116
117 // Update/replace data to database
118 public void updateData() {
119     try {

```

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2         e.printStackTrace();
3     }
4 }
5
6 // Update/replace data to database
7 public void updateData() {
8     try {
9         while (true) {
10             Class.forName("com.mysql.jdbc.Driver");
11             Connection con = DriverManager.getConnection(url, username, password);
12             Scanner sc2 = new Scanner(System.in);
13             System.out.println("Want to update data Press Y/N");
14             char a = sc2.next().charAt(0);
15             if (a == 'Y') {
16                 System.out.println("Enter name");
17                 String Ename = sc2.next();
18
19                 System.out.println("Enter Address");
20                 String Eaddress = sc2.next();
21
22                 System.out.println("Enter salary");
23                 long Esalary = sc2.nextLong();
24
25                 System.out.println("Enter Eid");
26                 int Eid = sc2.nextInt();
27
28                 String sql = "update EmployeeData set Ename=' " + Ename + " ',Eaddress=' " + Eaddress
29                     + " ',Esalary=" + Esalary + " where Eid=" + Eid + " ";
30                 Statement smt = con.createStatement();
31                 smt.execute(sql); // 5. submit SQL query
32
33                 smt.close();
34                 con.close();
35
36                 System.out.println("Update success");
37
38             } else if (a == 'N') {
39                 break;

```

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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");

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        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();
}
}
}
}

```

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Main Class.

```
1 package com.JDBCAssignment;
2
3 import java.sql.SQLException;
4
5
6 public class EmployeeMain {
7     public static void main(String[] args) throws ClassNotFoundException, SQLException {
8         JDBC_Methods j=new JDBC_Methods();
9
10        Scanner sc=new Scanner(System.in);
11        while(true)
12        {
13            System.out.println("Enter your choice \n1. Add data \n2. Get data \n3. Update data \n4. Delete data");
14            int i=sc.nextInt();
15
16            switch(i)
17            {
18                case 1:
19                    j.setdata();
20                    break;
21
22                case 2:
23                    j.getdata();
24                    break;
25
26                case 3:
27                    j.updateData();
28                    break;
29
30                case 4:
31                    j.deleteData();
32                    break;
33            }
34        }
35    }
36 }
37
38 }
39
```

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  
Mumbai
```

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
```