

## Create Operation

```
50 public static void main(String[] args) {
51     try {
52         Class.forName("oracle.jdbc.driver.OracleDriver");
53         Connection con = DriverManager.getConnection(
54             "jdbc:oracle:thin:@localhost:1521/orcl",
55             "SYSTEM",
56             "Oracle_1");
57         PreparedStatement pstmt = con.prepareStatement("insert into emp values(?, ?, ?)");
58         BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
59
60         while(true) {
61             System.out.println("Enter Emp Id : ");
62             int empId = Integer.parseInt(br.readLine());
63
64             System.out.println("Enter Emp Name : ");
65             String empName = br.readLine();
66
67             System.out.println("Enter Emp Salary : ");
68             double empSal = Double.parseDouble(br.readLine());
69
70             pstmt.setInt(1, empId);
71             pstmt.setString(2, empName);
72             pstmt.setDouble(3, empSal);
73
74             int count = pstmt.executeUpdate();
75             if(count > 0) {
76                 System.out.println(count + " record inserted");
77             } else {
78                 System.out.println("No record inserted");
79             }
80
81             System.out.println("Do you want to insert more records?");
82             String ch = br.readLine();
83
84             if(ch.equalsIgnoreCase("no")) {
85                 break;
86             }
87         }
88     } catch (Exception e) {
89         e.printStackTrace();
90     }
91 }
```

SQL Plus

```
SQL> select * from emp;
-----
EMPID      ENAME      ESAL
-----
101 Bruce      234
```

Markers Properties Servers Data Source Explorer Terminal Console

terminated: JDBC\_Insert [Java Application] C:\Program Files\Java\jdk-17.0.4\bin\java.exe (11-Feb-2023, 11:27:02 pm - 11:28:11 pm) [pid: 13716]

Enter Emp Id :  
101  
Enter Emp Name :  
Bruce  
Enter Emp Salary :  
234  
1 record inserted  
Do you want to insert more records?  
no

## Read Operation

```
1 import java.sql.*;
2
3 public class JDBC_Select {
4
5     public static void main(String[] args) {
6         try {
7             Connection con = DriverManager.getConnection(
8                 "jdbc:oracle:thin:@localhost:1521/orcl",
9                 "SYSTEM",
10                "Oracle_1");
11
12             Statement stmt = con.createStatement();
13             ResultSet rs = stmt.executeQuery("select * from emp");
14             while(rs.next()) {
15                 int empId = rs.getInt(1);
16                 String empName = rs.getString(2);
17                 double empSal = rs.getDouble(3);
18
19                 System.out.print("EmpId : " + empId);
20                 System.out.print(" EmpName : " + empName);
21                 System.out.print(" EmpSalary : " + empSal);
22
23                 System.out.println();
24             }
25         } catch (Exception e) {
26             e.printStackTrace();
27         }
28     }
29 }
30
31 }
```

Markers Properties Servers Data Source Explorer Terminal Console

terminated: JDBC\_Select [Java Application] C:\Program Files\Java\jdk-17.0.4\bin\java.exe (11-Feb-2023, 11:27:01 pm - 11:27:03 pm) [pid: 13776]

EmpId : 101 EmpName : Bruce EmpSalary : 234.0

## Update Operation:

```
import java.io.*;

public class DBUpdate {
    public static void main(String[] args) {
        try {
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con = DriverManager.getConnection(
                "jdbc:oracle:thin:@localhost:1521/orcl",
                "scott",
                "oracle_1"
            );

            Statement stmt = con.createStatement();

            BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

            System.out.println("Enter empid : ");
            int emp = Integer.parseInt(br.readLine());

            System.out.println("Enter new salary : ");
            double esal = Double.parseDouble(br.readLine());

            int count = stmt.executeUpdate("update emp set esal = " + esal + " where emp = " + emp);
            if(count > 0) {
                System.out.println(count + " row updated");
            }
            else {
                System.out.println("No records found");
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

```
SQL> select * from emp;

EMPNO  ENAME      ESAL
-----
181    Bruce      999

SQL>
```

```
Enter empid :
181
Enter new salary :
999
1 row updated
```

## Delete Operation :

```
public class DBDelete {
    public static void main(String[] args) {
        try {
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con = DriverManager.getConnection(
                "jdbc:oracle:thin:@localhost:1521/orcl",
                "scott",
                "oracle_1"
            );

            Statement stmt = con.createStatement();

            BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

            while(true) {
                System.out.println("Enter deletion empid : ");
                int emp = Integer.parseInt(br.readLine());

                int count = stmt.executeUpdate("delete from emp where emp = " + emp);
                if(count > 0) {
                    System.out.println(count + " row deleted");
                }
                else {
                    System.out.println("No records deleted");
                }

                System.out.println("Do you want to delete more records?");
                String ch = br.readLine();

                if(ch.equalsIgnoreCase("no")) {
                    break;
                }
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

```
SQL> select * from emp;

no rows selected

SQL>
```

```
Enter deletion empid :
181
1 row deleted
Do you want to delete more records?
no
```