

Experiment no 4

- 1) Implementation of program to modify data from database using JAVA with backend Oracle/SQL.
- 2) Implementation of program to create, insert and delete in database using JAVA with backend Oracle/SQL.

Program –

```
import java.sql.*;
public class Javadatabase1 {
    public static void main(String args[]) {
        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
            // Establishing Connection
            Connection con = DriverManager.getConnection(
            "jdbc:oracle:thin:@localhost:1521:XE", "system", "dbms");
            Statement stmt=con.createStatement();
            //ResultSet rs=stmt.executeQuery("select * from sy");
            //while(rs.next())
            //System.out.println(rs.getString(1)+" "+rs.getInt(2));
            //try {
            //String sql = "CREATE TABLE PERSON (id INTEGER , first VARCHAR(255),last VARCHAR(255), age INTEGER )";
            //stmt.executeUpdate(sql);
            //stmt.executeUpdate("insert into PERSON values(5,'PATIL','PATIL', 23046)");
            stmt.executeUpdate("update PERSON set first='OMKAR', last='YELAVE' where id=5");
            //stmt.executeUpdate("DELETE from PERSON WHERE id=3");
            ResultSet rs=stmt.executeQuery("select * from PERSON");
            while(rs.next())
            System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getString(3)+" "+rs.getInt(4) );
            /*catch(SQLException se){}
            }*/
        con.close();
        }
        catch(Exception e)
        {
            //System.out.println("Tuple cannot be inserted."+se);
        }
    }
    //Getting the connection
}
```

Before Inserting new row :

```
19 // System.out.println(rs.getString(1)+" "+rs.getString(2));
20 // try {
21
22 //String sql = "CREATE TABLE PERSON (id INTEGER , First VARCHAR(255), Last VARCHAR(255), age INTEGER)";
23 //stmt.executeUpdate(sql);
24
25 stmt.executeUpdate("insert into PERSON values(1,'RATIL','RATIL', 2004)");
26
27 //stmt.executeUpdate("update PERSON set First='ADITYA', Last='PATIL' where id=1");
28 //stmt.executeUpdate("DELETE from PERSON WHERE id=1");
29 ResultSet rs=stmt.executeQuery("select * from PERSON");
30 while(rs.next())
31 {
32 System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getString(3)+" "+rs.getInt(4) );
33 // stmt.executeUpdate(sql);
34
35 }
36
37 con.close();
38 }
```

Output - JavaDatabase1 [run]

```
run:
1 RISHIL PANG 2000
2 PRATHAMESH PINE 2004
3 ADITYA PATIL 2004
4 SUMIT PATIL 2004
BUILD SUCCESSFUL (total time: 0 seconds)
```

#After inserting new row :

```
19 // System.out.println(rs.getString(1)+" "+rs.getString(2));
20 // try {
21
22 //String sql = "CREATE TABLE PERSON (id INTEGER , First VARCHAR(255), Last VARCHAR(255), age INTEGER)";
23 //stmt.executeUpdate(sql);
24
25 stmt.executeUpdate("insert into PERSON values(1,'RATIL','RATIL', 2004)");
26
27 //stmt.executeUpdate("update PERSON set First='ADITYA', Last='PATIL' where id=1");
28 //stmt.executeUpdate("DELETE from PERSON WHERE id=1");
29 ResultSet rs=stmt.executeQuery("select * from PERSON");
30 while(rs.next())
31 {
32 System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getString(3)+" "+rs.getInt(4) );
33 // stmt.executeUpdate(sql);
34
35 }
36
37 con.close();
38 }
```

Output - JavaDatabase1 [run]

```
run:
1 RISHIL PANG 2000
2 PRATHAMESH PINE 2004
3 RATIL PATIL 2004
4 ADITYA PATIL 2004
5 SUMIT PATIL 2004
BUILD SUCCESSFUL (total time: 0 seconds)
```

#After updating the row :

```
19 // System.out.println(rs.getString(1)+" "+rs.getString(2));
20 // try {
21
22 //String sql = "CREATE TABLE PERSON (id INTEGER , First VARCHAR(255), Last VARCHAR(255), age INTEGER)";
23 //stmt.executeUpdate(sql);
24
25 //stmt.executeUpdate("insert into PERSON values(1,'RATIL','RATIL', 2004)");
26
27 stmt.executeUpdate("update PERSON set First='RAGHU', Last='SELVA' where id=1");
28 //stmt.executeUpdate("DELETE from PERSON WHERE id=1");
29 ResultSet rs=stmt.executeQuery("select * from PERSON");
30 while(rs.next())
31 {
32 System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getString(3)+" "+rs.getInt(4) );
33 // stmt.executeUpdate(sql);
34
35 }
36
37 con.close();
38 }
```

Output - JavaDatabase1 [run]

```
run:
1 RISHIL PANG 2000
2 PRATHAMESH PINE 2004
3 RAGHU SELVA 2004
4 ADITYA PATIL 2004
5 SUMIT PATIL 2004
BUILD SUCCESSFUL (total time: 0 seconds)
```