Ex no: 10	JDBC CONNECTIVITY
Date	17-10-2019

Aim

Develop an application for a company to manage its order and supply details using JDBC connectivity and do the following:

Have a menu with the following option and perform the following operations.

- Insert new order
- Modify the order details
- Delete a record from order table
- Search the supply details based on product id

Description

Java Database Connectivity (JDBC) is an application programming interface (API) for the programming language Java, which defines how a client may access a database.

Register the driver class

The forName() method of Class class is used to register the driver class. This method is used to dynamically load the driver class.

Create the connection object

The getConnection() method of DriverManager class is used to establish connection with the database.

Create the Statement object

The createStatement() method of Connection interface is used to create statement. The object of statement is responsible to execute queries with the database.

Execute the query

The executeQuery() method of Statement interface is used to execute queries to the database. This method returns the object of ResultSet that can be used to get all the records of a table.

Close the connection object

By closing connection object statement and ResultSet will be closed automatically. The close() method of Connection interface is used to close the connection.

Program:

```
package databaseconnective;
import java.sql.*;
import java.util.Scanner;
public class Databaseconnective
{
   public static void main(String[] args)
   {
      try
      {
         Class.forName("oracle.jdbc.OracleDriver");
         System.out.println("Class loaded sucessfully");
      } catch (ClassNotFoundException ex)
      {
         System.out.println("Class not Loaded susessfully");
      }
     String url="jdbc:oracle:thin:@192.168.12.29:1521:oracle";
     String user="urk17cs076";
     String password="URK17CS076";
     String database="urk17cs076";
       try
      {
         Connection con=DriverManager.getConnection(url, user, password);
         System.out.println("Successfully connected to database");
         System.out.println("1)Add Order Details\n2)Modify Order Details\n3)Delete a record
from order table\n4)search for supplier details");
         Scanner s= new Scanner(System.in);
         PreparedStatement ps;
         Statement st=con.createStatement();
         int n=s.nextInt();
         switch(n)
```

```
            {
            case 1:
            {
       System.out.println("Enter the order_id:");
       int order_id=s.nextInt();
       System.out.println("Enter date:");
       s.nextLine();
       String order_date=s.nextLine();
       System.out.println("Enter customer_id");
       int Cust_id=s.nextInt();
      String query="insert into order_cs076 values(?,?,?)";
       ps=con.prepareStatement(query);
       ps.setInt(1, order_id);
       ps.setString(2, order_date);
       ps.setInt(3, Cust_id);
       ps.executeUpdate();
             break;
   }
            case 2:
            {
               System.out.println("Which one you want to update");
               s.nextLine();
               String up=s.nextLine();
               System.out.println("set the value of(new value)"+up);
               String upvalue=s.nextLine();
               System.out.println("to (previous value)"+up);
               int pvalue=s.nextInt();
               String query="update order_cs076 set "+up+"="+"'"+upvalue+"'"+"where
"+up+"="+"'"+pvalue+"'";
               System.out.println(query);
               st.executeUpdate(query);
               break;
            }
            case 3:
            {
               System.out.println("Enter the order id to delete the detail");
               s.nextLine();
               int d=s.nextInt();
               String query="delete from order_cs076 where order_id="+"'"+d+"'";
               System.out.println(query);
                st.executeUpdate(query);
               break;
            }
            case 4:
            {
               System.out.println("Enter the product id to check supplier detail");
```

```
                s.nextLine();
                int d=s.nextInt();
                String query="select * from supplier where product_id="+"'"+d+"'";
                System.out.println(query);
                ResultSet rs=st.executeQuery(query);
                rs.next();

System.out.println("supplier_id:"+rs.getString("supplier_id")+"\nSupplier_date:"+rs.getString("s
upplier_date")+"\nS_NAME:"+rs.getString("s_name"));
                break;
            }
            default:
            {
                System.out.println("Enter the proper input");
            }
            }
        }
            catch (Exception ex)
        {
           System.out.println(ex);
        }
    }
}
```

Sample OUTPUT:

```
run:
Class loaded sucessfully
Successfully connected to database
1)Add Order Details
2)Modify Order Details
3)Delete a record from order table
4)search for supplier details
1
Enter the order_id:
10
Enter date:
12082019
Enter customer_id
23
BUILD SUCCESSFUL (total time: 37 seconds
```

Result:

The implementation of JDBC connectivity was successfully executed**.**