

Dt : 6/11/2023

2.PreparedStatement:

=>PreparedStatement is an interface from `java.sql` package and which is used to execute normal queries with IN Parameters.

=>we use `prepareStatement()` method from 'Connection' interface to create implementation object for 'PreparedStatement' interface.

Method Signature of `prepareStatement()`:

**`public abstract java.sql.PreparedStatement prepareStatement`
`(java.lang.String) throws java.sql.SQLException;`**

syntax:

`PreparedStatement ps = con.prepareStatement("query-structure");`

=>The following are two important methods from PreparedStatement:

(i)`executeQuery()`

(ii)`executeUpdate()`

(i)`executeQuery()`:

=>`executeQuery()` method is used to execute select-queries.

Method Signature:

`public abstract java.sql.ResultSet executeQuery()`

throws java.sql.SQLException;

syntax:

ResultSet rs = ps.executeQuery();

(ii)executeUpdate():

=>executeUpdate() method is used to execute NonSelect-queries.

Method Signature:

public abstract int executeUpdate() throws java.sql.SQLException;

syntax:

int k = ps.executeUpdate();

Ex-program:

Construct JDBC Application to perform the following operations on DB-table

Product57 based on User Choice:

1.AddProduct

2.ViewAllProducts

3.ViewProductByCode

4.UpdateProductBycode(price-qty)

5.DeleteProductByCode

DB-table : Product57

**create table Product57(code varchar2(10),name varchar2(15),
price number(10,2),qty number(10),primary key(code));**

Program : DBCon4.java

package test;

import java.sql.*;

import java.util.*;

public class DBCon3

{

public static void main(String[] args)

{

Scanner s = new Scanner(System.in);

try(s){

try {

System.out.println("Enter the CustId:");

String cld = s.nextLine();

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con = DriverManager.getConnection

("jdbc:oracle:thin:@localhost:1521:xe",

"system","manager");

```

        Statement stm = con.createStatement();

        ResultSet rs = stm.executeQuery

        ("select * from Customer57 where cid='"+cld+"'");

        if(rs.next()) {

            System.out.println(rs.getString(1)+"\t"+

            rs.getString(2)+"\t"+rs.getString(3)+"\t"+

            rs.getString(4)+"\t"+rs.getInt(5)+

            "\t"+rs.getString(6)+"\t"+

            rs.getLong(7));

        }else {

            System.out.println("Invalid CustId...");

        }

        con.close();

    }catch(Exception e) {e.printStackTrace();}

}

}

```

o/p:

******Choice******

1.AddProduct

2.ViewAllProducts

3.ViewProductByCode

4.UpdateProductByCode(price-qty)

5.DeleteProductByCode

6.Exit

Enter the Choice:

1

====Enter Product Details====

Enter ProdCode:

A111

Enter ProdName:

Mouse

Enter ProdPrice:

1200

Enter ProdQty:

12

Product added Successfully..

******Choice******

1.AddProduct

2.ViewAllProducts

3.ViewProductByCode

4.UpdateProductByCode(price-qty)

5.DeleteProductByCode

6.Exit

Enter the Choice:

1

====Enter Product Details===

Enter ProdCode:

A222

Enter ProdName:

CDR

Enter ProdPrice:

1600

Enter ProdQty:

15

Product added Successfully..

******Choice******

1.AddProduct

2.ViewAllProducts

3.ViewProductByCode

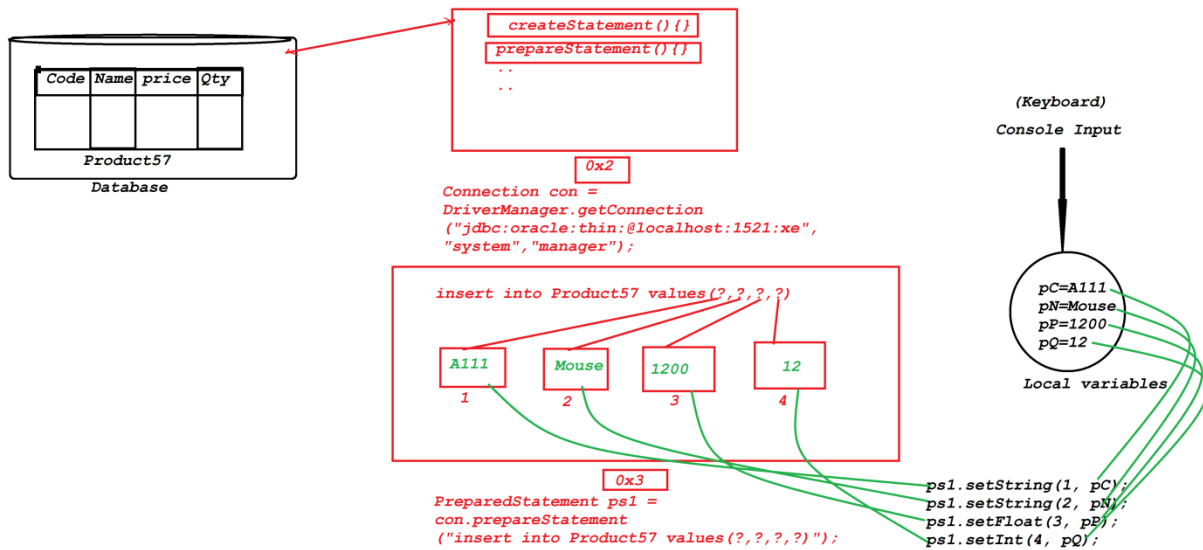
4.UpdateProductByCode(price-qty)

5.DeleteProductByCode

6.Exit

Enter the Choice:

Diagram:



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