

Dt : 2/10/2024(Day-7)

Ex:

step-1 : Create table with name Product67

(code,name,price,qty)

Primary Key : code

create table Product67(code varchar2(10),name varchar2(15),price number(10,2),  
qty number(10),primary key(code));

step-2 : Construct JDBC application to perform the following operations based on user-choice:

1.AddProduct

2.ViewAllProducts

3.ViewProductByCode

4.UpdateProductByCode(price-qty)

5.DeleteProductByCode

Program : DBCon4.java

```
package test;
import java.util.*;
import java.sql.*;
public class DBCon4 {
    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        try(s){
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con = DriverManager.getConnection
("jdbc:oracle:thin:@localhost:1521:xe","system","tiger");
            PreparedStatement ps1 = con.prepareStatement
("insert into Product67 values(?,?,?,?)");//Compilation
process
            PreparedStatement ps2 = con.prepareStatement
("select * from Product67");//Compilation Process
```

```

        PreparedStatement ps3 = con.prepareStatement
            ("select * from Product67 where code=?");//Compilation
process
    while(true) {
        System.out.println("====Choice====");
        System.out.println("\t1.AddProduct"
            + "\n\t2.ViewAllProducts"
            + "\n\t3.ViewProductByCode"
            + "\n\t4.UpdateProductByCode(price-qty)"
            + "\n\t5.DeleteProductByCode"
            + "\n\t6.Exit");
        System.out.println("Enter your Choice:");
        switch(Integer.parseInt(s.nextLine())) {
        case 1:
            System.out.println("-----Enter Product details-----");
            System.out.println("Enter the Prod-Code:");
            String pC = s.nextLine();
            System.out.println("Enter the Prod-Name:");
            String pN = s.nextLine();
            System.out.println("Enter the Prod-Price:");
            float pP = Float.parseFloat(s.nextLine());
            System.out.println("Enter the Prod-Qty:");
            int pQ = Integer.parseInt(s.nextLine());

            //Loading data to PreparedStatement Object
            ps1.setString(1, pC);
            ps1.setString(2, pN);
            ps1.setFloat(3, pP);
            ps1.setInt(4, pQ);

            int k1 = ps1.executeUpdate();//Execution process
            if(k1>0) {
                System.out.println("Product Added
Successfully....");
            }
            break;
        case 2:
            ResultSet rs1 = ps2.executeQuery();
            System.out.println("-----Product Details-----");
            while(rs1.next()) {

                System.out.println(rs1.getString(1)+"\t"+rs1.getString(2)+
"\t"+rs1.getFloat(3)+"\t"+rs1.getInt(4));
            }//end of loop
            break;
        case 3:
            System.out.println("Enter the Prod-Code to display
Product details:");
            String pC2 = s.nextLine();

```

```

        //Loading data to PreparedStatement Object
        ps3.setString(1, pC2);
        ResultSet rs2 = ps3.executeQuery();
        if(rs2.next()) {

System.out.println(rs2.getString(1)+"\t"+rs2.getString(2)+
"\t"+rs2.getFloat(3)+"\t"+rs2.getInt(4));
        }else {
            System.out.println("Invalid Product Code....");
        }
        break;
    case 4:
        break;
    case 5:
        break;
    case 6:
        System.out.println("Operations Stopped....");
        System.exit(0);
    default:
        System.out.println("Invalid choice....");
    } //end of switch
} //end of loop
} catch (Exception e) {
    System.out.println(e.toString());
}
}
}

```

o/p:

=====Choice=====

- 1.AddProduct
- 2.ViewAllProducts
- 3.ViewProductByCode
- 4.UpdateProductByCode(price-qty)
- 5.DeleteProductByCode
- 6.Exit

Enter your Choice:

**Enter the Prod-Code to display Product details:**

**A121**

**A121 Mouse 789.23 10**

**=====Choice=====**

**1.AddProduct**

**2.ViewAllProducts**

**3.ViewProductByCode**

**4.UpdateProductByCode(price-qty)**

**5.DeleteProductByCode**

**6.Exit**

**Enter your Choice:**

**2**

**-----Product Details-----**

**A121 Mouse 789.23 10**

**A123 CDR 678.12 12**

**=====Choice=====**

**1.AddProduct**

**2.ViewAllProducts**

**3.ViewProductByCode**

**4.UpdateProductByCode(price-qty)**

**5.DeleteProductByCode**

**6.Exit**

**Enter your Choice:**

**3**

**Enter the Prod-Code to display Product details:**

**D111**

**Invalid Productb Code....**

**=====Choice=====**

**1.AddProduct**

**2.ViewAllProducts**

**3.ViewProductByCode**

**4.UpdateProductByCode(price-qty)**

**5.DeleteProductByCode**

**6.Exit**

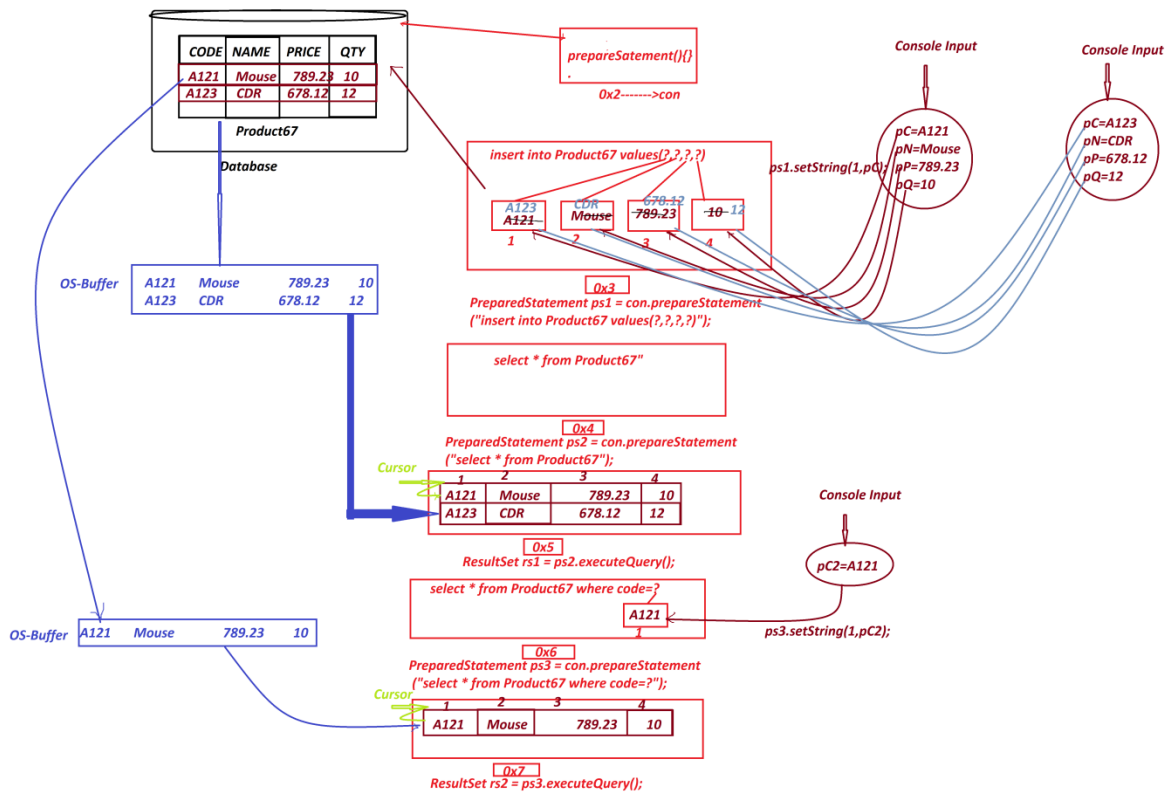
**Enter your Choice:**

**6**

**Operations Stopped....**

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**Diagram:**



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