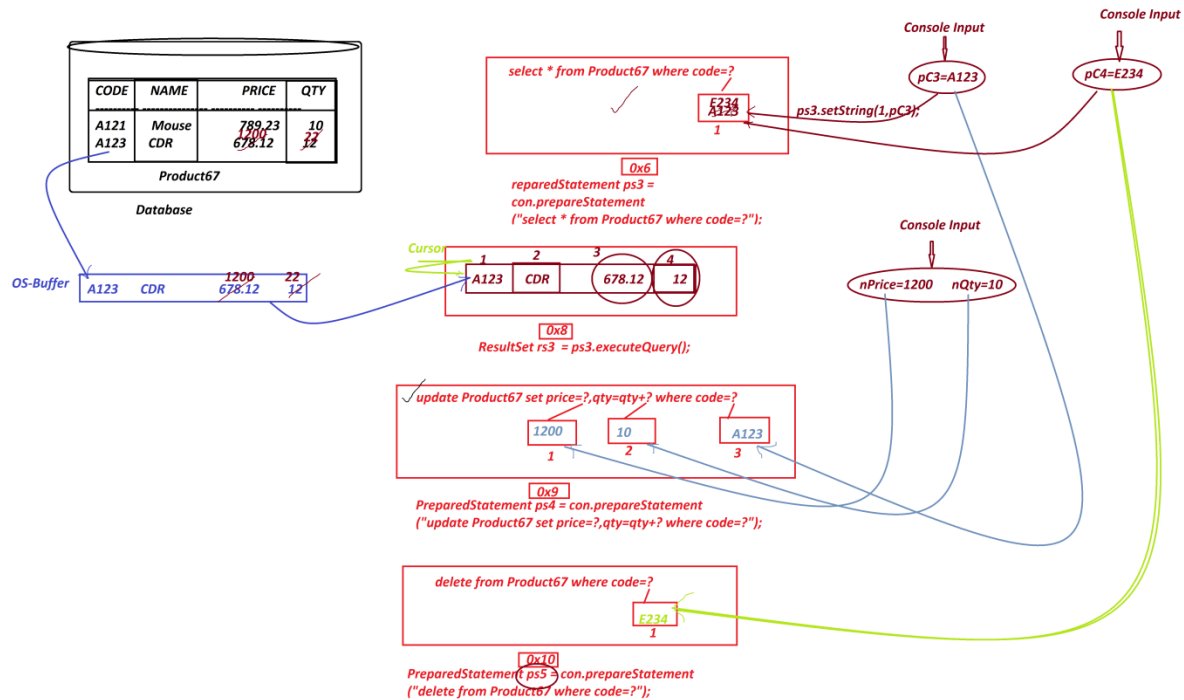


Dt : 3/10/2024(Day-8)

Layout:



Program : DBCon4.java(Code Updated)

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

PreparedStatement ps4 = con.prepareStatement

        ("update Product67 set price=?,qty=qty+? where code=?");//Compilation
process

PreparedStatement ps5 = con.prepareStatement

        ("delete 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:

System.out.println("Enter the Prod-Code to update price and qty:");

String pC3 = s.nextLine();

//Loading data PreparedStatement Object

ps3.setString(1, pC3);

ResultSet rs3 = ps3.executeQuery();

if(rs3.next()) {

    System.out.println("Old price of product:"+rs3.getFloat(3));

    System.out.println("Enter the new price for product:");

    float nPrice = Float.parseFloat(s.nextLine());

    System.out.println("Existing Product qty:"+rs3.getInt(4));

    System.out.println("Enter the new qty(new stock) for product:");

    int nQty = Integer.parseInt(s.nextLine());

```

```

//Loading data to PreparedStatement Object

ps4.setFloat(1, nPrice);

ps4.setInt(2, nQty);

ps4.setString(3, pC3);


int k2 = ps4.executeUpdate();//Execution process
if(k2>0) {

    System.out.println("Product Updated Successfully...");

}

}else {

    System.out.println("Invalid Prod-Code...");

}

break;

case 5:

    System.out.println("Enter the Prod-Code to delete Product details:");

    String pC4 = s.nextLine();

    //Loading the data to PreparedStatement Object

    ps3.setString(1, pC4);

    ResultSet rs4 = ps3.executeQuery();

    if(rs4.next()) {

        //Loading the data to PreparedStatement Object

        ps5.setString(1, pC4);

        int k3 = ps5.executeUpdate();//Execution process

        if(k3>0) {

```

```

        System.out.println("Product deleted successfully...");
    }
    }else {
        System.out.println("Invalid Prod-code.....");
    }
    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:

1

-----Enter Product details-----

Enter the Prod-Code:

D345

Enter the Prod-Name:

MDD

Enter the Prod-Price:

781.23

Enter the Prod-Qty:

10

Product Added Successfully....

=====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 1200.0 22

E234 FDD 456.23 11

D345 MDD 781.23 10

=====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:

D345

D345 MDD 781.23 10

=====Choice=====

1.AddProduct

2.ViewAllProducts

3.ViewProductByCode

4.UpdateProductByCode(price-qty)

5.DeleteProductByCode

6.Exit

Enter your Choice:

4

Enter the Prod-Code to update price and qty:

A121

Old price of product:789.23

Enter the new price for product:

892.34

Existing Product qty:10

Enter the new qty(new stock) for product:

5

Product Updated Successfully...

=====Choice=====

1.AddProduct

2.ViewAllProducts

3.ViewProductByCode

4.UpdateProductByCode(price-qty)

5.DeleteProductByCode

6.Exit

Enter your Choice:

2

-----Product Details-----

A121 Mouse 892.34 15

A123 CDR 1200.0 22

E234 FDD 456.23 11

D345 MDD 781.23 10

=====Choice=====

1.AddProduct

2.ViewAllProducts

3.ViewProductByCode

4.UpdateProductByCode(price-qty)

5.DeleteProductByCode

6.Exit

Enter your Choice:

5

Enter the Prod-Code to delete Product details:

E234

Product deleted successfully...

=====Choice=====

1.AddProduct

2.ViewAllProducts

3.ViewProductByCode

4.UpdateProductByCode(price-qty)

5.DeleteProductByCode

6.Exit

Enter your Choice:

2

-----Product Details-----

A121 Mouse 892.34 15

A123 CDR 1200.0 22

D345 MDD 781.23 10

=====Choice=====

1.AddProduct

2.ViewAllProducts

3.ViewProductByCode

4.UpdateProductByCode(price-qty)

5.DeleteProductByCode

6.Exit

Enter your Choice:

6

Operations Stopped....

=====

Assignment:

step-1 : Create table with name Employee67 from SQLCommandLine

(eid,ename,edesg,bsal,hra,da,totsal)

Primary Key : eid

step-2 : Construct JDBC Application to perform the following Operations based on User choice:

1.AddEmployee

2.ViewAllEmployees

3.ViewEmployeeById

4.UpdateEmployeeById(bsal-hra-da-totsal)

5.DeleteEmployeeById

Note::

Read(Input) : eid,eName,eDesg,bSal

Calculate : hra,da,totSal

$hra = 93\% \text{ of } bSal$

$da = 61\% \text{ of } bSal$

$totSal = bSal+hra+da$

=====

Venkatesh Maipathii