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Dt: 7/11/2023
Program: DBCon4.java(Code Modified)
package test;
import java.sql.*;
import java.util.*;
public class DBCon4 {
       public static void main(String[] args) {
   Scanner s = new Scanner(System.in);
   try(s;){
         try {
                Class.forName("oracle.jdbc.driver.OracleDriver");
       Connection con = DriverManager.getConnection
        ("jdbc:oracle:thin:@localhost:1521:xe",
                       "system","manager");
       PreparedStatement ps1 = con.prepareStatement
        ("insert into Product57 values(?,?,?,?)");//Compilation
       PreparedStatement ps2 = con.prepareStatement
                       ("select * from Product57");//Compilation
       PreparedStatement ps3 = con.prepareStatement
       ("select * from Product57 where code=?");//Compilation
       PreparedStatement ps4 = con.prepareStatement
       ("update Product57 set price=?,qty=qty+? where code=?");
       PreparedStatement ps5 = con.prepareStatement
       ("delete from Product57 where code=?");
       while(true)
```

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{
       System.out.println("****Choice*****");
       System.out.println("1.AddProduct"
                       + "\t\n2.ViewAllProducts"
                        + "\t\n3.ViewProductByCode"
                        + "\t\n4.UpdateProductByCode(price-qty)"
                       + "\t\n5.DeleteProductByCode"
                       + "\t\n6.Exit");
       System.out.println("Enter the Choice:");
       int choice = Integer.parseInt(s.nextLine());
       switch(choice)
       {
       case 1:
                System.out.println("====Enter Product Details===");
                System.out.println("Enter ProdCode:");
                String pC = s.nextLine();
                System.out.println("Enter ProdName:");
                String pN = s.nextLine();
                System.out.println("Enter ProdPrice:");
                float pP = Float.parseFloat(s.nextLine());
                System.out.println("Enter ProdQty:");
                int pQ = Integer.parseInt(s.nextLine());
```

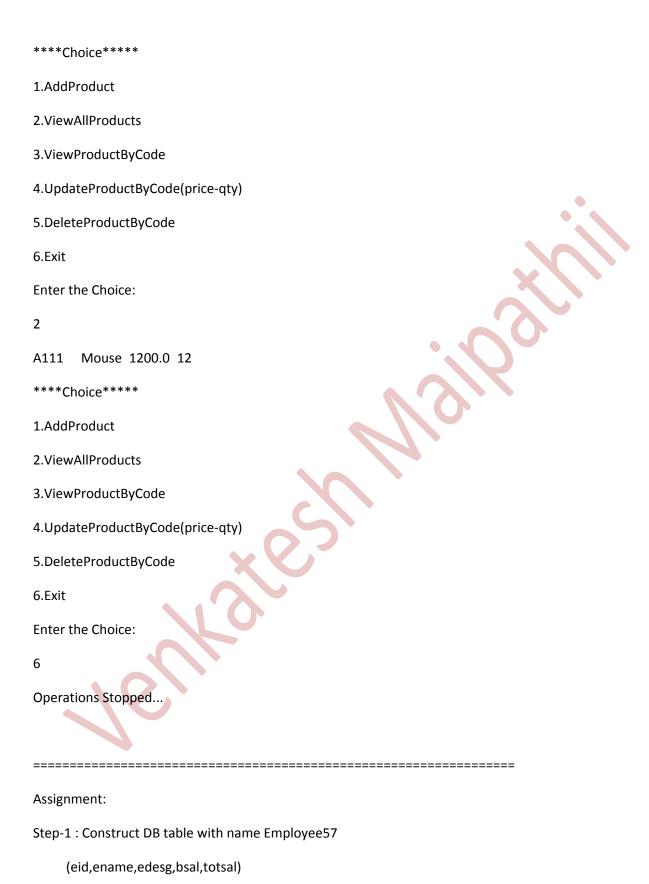
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ps1.setString(2, pN);
        ps1.setFloat(3, pP);
        ps1.setInt(4, pQ);
        int k = ps1.executeUpdate();//Execution
        if(k>0) {
                System.out.println("Product added Successfully.."
        }
        break;
case 2:
        ResultSet rs1 = ps2.executeQuery();//Execution
        while(rs1.next())
        {
                System.out.println(rs1.getString(1)+"\t"+
          rs1.getString(2)+"\t"+
                                rs1.getFloat(3)+"\t"+
               rs1.getInt(4));
        break;
case 3:
        System.out.println("Enter the ProdCode:");
        String pC1 = s.nextLine();
        ps3.setString(1, pC1);
        ResultSet rs2 = ps3.executeQuery();//Execution
```

ps1.setString(1, pC);

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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 ProdCode...");
        }
        break;
case 4:
        System.out.println("Enter the ProdCode for Updating:");
        String pC2 = s.nextLine();
        ps3.setString(1, pC2);
        ResultSet rs3 = ps3.executeQuery();
        if(rs3.next()) {
                System.out.println("Old Price:"+rs3.getFloat(3));
                System.out.println("Enter the New price:");
                float nPrice = Float.parseFloat(s.nextLine());
                System.out.println("Existing Qty:"+rs3.getInt(4));
                System.out.println("Enter the New Qty:");
                int nQty = Integer.parseInt(s.nextLine());
                ps4.setFloat(1, nPrice);
                ps4.setInt(2, nQty);
                ps4.setString(3, pC2);
                int k2 = ps4.executeUpdate();
```

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if(k2>0) {
                        System.out.println("Product Updated Successfully...");
                }
        }else {
                System.out.println("Invalid ProdCode...");
        }
        break;
case 5:
        System.out.println("Enter the ProCode for delete process:");
        String pC3 = s.nextLine();
        ps3.setString(1, pC3);
        ResultSet rs4 = ps3.executeQuery();
        if(rs4.next()) {
                ps5.setString(1, pC3);
                int k4 = ps5.executeUpdate();
                if(k4>0) {
                        System.out.println("Product deleted Successfully...");
                System.out.println("Invalid ProdCode...");
        break;
case 6:
        System.out.println("Operations Stopped...");
        System.exit(0);
```

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default:
                       System.out.println("Invalid Choice...");
               }//end of switch
       }//end of loop
         }//end of try
         catch(Exception e)
         {
                 e.printStackTrace();
         }
   }//end of try with resource
        }
}
o/p:
****Choice****
1.AddProduct
2.ViewAllProducts
3.ViewProductByCode
4.UpdateProductByCode(price-qty)
5.DeleteProductByCode
6.Exit
Enter the Choice:
5
Enter the ProCode for delete process:
A222
Product deleted Successfully...
```



stei	o-2	2:	Constr	uct JD	BC A	laa.	ication	to	perform	the	following	operations:

- 1.AddEmployee
- 2.ViewAllEmployees
- 3.ViewEmployeeById
- 4.UpdateEmployeeById(bSal)
- 5. Delete Employee By Id

Note:

totSal = bSal+hra+da;

hra = 93% of bSal

da = 61% of bSal