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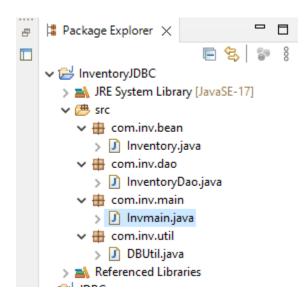
Task Name: Inventory Management System

Property	Туре
itemID	int
Itemname	String
Quantity_Available	int
Manufacturer	String
Mfg_date	String
price	Float

Table Database:



Inventory JDBC:



source Code 1.Inventory.java:

```
package com.inv.bean;
public class Inventory {
      private int itemID;
      private String itemName;
      private int Quantity Available;
      private String Manufacturer;
      private String Mfg date;
      private Float Price;
      public Inventory() {
            // TODO Auto-generated constructor stub
      }
      public Inventory(int itemID, String itemName, int
quantity_Available, String manufacturer, String mfg_date,
                  Float price) {
            super();
            this.itemID = itemID;
            this.itemName = itemName;
            Quantity_Available = quantity_Available;
            Manufacturer = manufacturer;
            Mfg_date = mfg_date;
            Price = price;
      }
      public int getItemID() {
            return itemID;
      public void setItemID(int itemID) {
            this.itemID = itemID;
      }
      public String getItemName() {
            return itemName:
      }
      public void setItemName(String itemName) {
            this.itemName = itemName;
      }
```

```
public int getQuantity_Available() {
             return Quantity_Available;
      }
      public void setQuantity Available(int quantity Available) {
             Quantity_Available = quantity_Available;
      }
      public String getManufacturer() {
             return Manufacturer;
      public void setManufacturer(String manufacturer) {
             Manufacturer = manufacturer;
      public String getMfg_date() {
             return Mfg_date;
      }
      public void setMfg_date(String mfg_date) {
             Mfg_date = mfg_date;
      }
      public Float getPrice() {
             return Price;
      public void setPrice(Float price) {
             Price = price;
      }
}
```

2.InventoryDao.java:

```
package com.inv.dao;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import com.inv.bean.Inventory;
import com.inv.util.DBUtil;
public class InventoryDao {
    public int insert(Inventory inv) {
        Connection con=DBUtil.getDBCOnnection();
        String sql="insert into inventory_db.inventory
values(?,?,?,?,?,?)";
        int n=0;
```

```
try {
                   PreparedStatement p=con.prepareStatement(sql);
                   p.setInt(1, inv.getItemID());
                   p.setString(2, inv.getItemName());
                   p.setInt(3, inv.getQuantity_Available());
                   p.setString(4, inv.getManufacturer());
                   p.setString(5, inv.getMfg_date());
                   p.setFloat(6, inv.getPrice());
                   n=p.executeUpdate();
            } catch (Exception e) {
                   System.out.println(e);
            }
            return n;
      }
      public int update(Inventory inv) {
            Connection con=DBUtil.getDBCOnnection();
            String sql="UPDATE `inventory_db`.`inventory` SET
`Itemname` =?, `QuantityAvailable` = ?, `Manufacturer` = ?,
`Mfg_date` = ?, `price` = ? WHERE (`ItemID` = ?);";
            int n=0;
            try {
                   PreparedStatement p=con.prepareStatement(sql);
                   p.setString(1, inv.getItemName());
                   p.setInt(2, inv.getQuantity_Available());
                   p.setString(3, inv.getManufacturer());
                   p.setString(4, inv.getMfg date());
                   p.setFloat(5, inv.getPrice());
                   p.setInt(6, inv.getItemID());
                   n=p.executeUpdate();
            } catch (Exception e) {
                   System.out.println(e);
            }
            return n;
      }
      public int delete(int id) {
            int n=0;
    try {
```

```
Connection con=DBUtil.getDBCOnnection();
      String sql="delete from inventory_db.inventory where
ItemID=?":
      PreparedStatement ps = con.prepareStatement(sql);
      ps.setInt(1, id);
      n=ps.executeUpdate();
    }
    catch (Exception e) {
                  System.out.println(e);
            }
            return n:
      }
      public int Find(int id1) {
            int n=0;
    try {
      Connection con=DBUtil.getDBCOnnection();
      String sql="Select * from inventory_db.inventory where
ItemID=?":
      PreparedStatement ps = con.prepareStatement(sql);
      ps.setInt(1, id1);
      ResultSet rs=ps.executeQuery();
                   while(rs.next()) {
                         System.out.print("Item ID:
"+rs.getInt(1)+"\nItem Name: "+rs.getString(2)+"\nAvailable Quantity:
"+rs.getInt(3)+"\nManufacturer: "+rs.getString(4)+"\nMfg_date:
"+rs.getString(5)+"\nPrice: "+rs.getFloat(6));
System.out.println("\n-----
    }
    catch (Exception e) {
                  System.out.println(e);
            }
            return n;
      }
      public int findAll() {
```

```
int n=0;
                        try {
                              Connection con=DBUtil.getDBCOnnection();
                              String sql="select * from
            inventory_db.inventory";
                             PreparedStatement ps =
            con.prepareStatement(sql);
                             ResultSet rs= ps.executeQuery();
                             while(rs.next()) {
                                   System.out.print("Item ID:
            "+rs.getInt(1)+"\nItem Name: "+rs.getString(2)+"\nAvailable Quantity:
            "+rs.getInt(3)+"\nManufacturer: "+rs.getString(4)+"\nMfg date:
           "+rs.getString(5)+"\nPrice: "+rs.getFloat(6));
            System.out.println("\n------
              ----");
                       } catch (Exception e) {
                             System.out.println(e);
                       }
                       return n;
                  }
           }
3.invmain.jav:
            package com.inv.dao;
            import java.sql.Connection;
            import java.sql.PreparedStatement;
            import java.sql.ResultSet;
            import com.inv.bean.Inventory;
            import com.inv.util.DBUtil;
            public class InventoryDao {
                  public int insert(Inventory inv) {
                       Connection con=DBUtil.getDBCOnnection();
                       String sql="insert into inventory db.inventory
            values(?,?,?,?,?)";
                       int n=0;
                       try {
```

```
PreparedStatement p=con.prepareStatement(sql);
                   p.setInt(1, inv.getItemID());
                   p.setString(2, inv.getItemName());
                   p.setInt(3, inv.getQuantity Available());
                   p.setString(4, inv.getManufacturer());
                   p.setString(5, inv.getMfg_date());
                   p.setFloat(6, inv.getPrice());
                   n=p.executeUpdate();
            } catch (Exception e) {
                   System.out.println(e);
            }
            return n;
      }
      public int update(Inventory inv) {
            Connection con=DBUtil.getDBCOnnection();
            String sql="UPDATE `inventory_db`.`inventory` SET
`Itemname` =?, `QuantityAvailable` = ?, `Manufacturer` = ?,
`Mfg_date` = ?, `price` = ? WHERE (`ItemID` = ?);";
            int n=0;
            try {
                   PreparedStatement p=con.prepareStatement(sql);
                   p.setString(1, inv.getItemName());
                   p.setInt(2, inv.getQuantity_Available());
                   p.setString(3, inv.getManufacturer());
                   p.setString(4, inv.getMfg_date());
                   p.setFloat(5, inv.getPrice());
                   p.setInt(6, inv.getItemID());
                   n=p.executeUpdate();
            } catch (Exception e) {
                   System.out.println(e);
            }
            return n;
      }
      public int delete(int id) {
            int n=0;
    try {
      Connection con=DBUtil.getDBCOnnection();
```

```
String sql="delete from inventory_db.inventory where
ItemID=?":
      PreparedStatement ps = con.prepareStatement(sql);
      ps.setInt(1, id);
      n=ps.executeUpdate();
   }
   catch (Exception e) {
                  System.out.println(e);
           }
            return n;
      }
      public int Find(int id1) {
            int n=0;
   try {
      Connection con=DBUtil.getDBCOnnection();
      String sql="Select * from inventory db.inventory where
ItemID=?";
      PreparedStatement ps = con.prepareStatement(sql);
      ps.setInt(1, id1);
      ResultSet rs=ps.executeQuery();
                  while(rs.next()) {
                        System.out.print("Item ID:
"+rs.getInt(1)+"\nItem Name: "+rs.getString(2)+"\nAvailable Quantity:
"+rs.getInt(3)+"\nManufacturer: "+rs.getString(4)+"\nMfg_date:
"+rs.getString(5)+"\nPrice: "+rs.getFloat(6));
System.out.println("\n------
                  }
   }
   catch (Exception e) {
                  System.out.println(e);
            }
            return n;
      }
      public int findAll() {
            int n=0;
```

```
try {
                                Connection con=DBUtil.getDBCOnnection();
                               String sql="select * from
            inventory_db.inventory";
                               PreparedStatement ps =
            con.prepareStatement(sql);
                               ResultSet rs= ps.executeQuery();
                               while(rs.next()) {
                                     System.out.print("Item ID:
            "+rs.getInt(1)+"\nItem Name: "+rs.getString(2)+"\nAvailable Quantity:
            "+rs.getInt(3)+"\nManufacturer: "+rs.getString(4)+"\nMfg date:
            "+rs.getString(5)+"\nPrice: "+rs.getFloat(6));
            System.out.println("\n-----
                        } catch (Exception e) {
                               System.out.println(e);
                         }
                         return n;
                   }
            }
4.DBUtil.java:
            package com.inv.util;
            import java.sql.Connection;
            import java.sql.DriverManager;
            public class DBUtil {
                  public static Connection getDBCOnnection() {
                         Connection con=null;
                         final String URL
            ="jdbc:mysql://localhost:3306/inventory db";
                         final String User="root";
                         final String Pass="root";
                         try {
            con=DriverManager.getConnection(URL,User,Pass);
                         } catch (Exception e) {
```

```
System.out.println(e);
}
return con;
}
}
```

Output Screen Shots:

1.Insert Details:

```
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₽ □ Console ×
Invmain [Java Application] D:\eclipse-java-2023-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x8
1.Insert 2.Update 3.Delete 4.FInd 5.FindAll 6.exit
Enter Your CHoice
Enter the details:
  ItemID, itemName, Quantity_Available, Manufacturer, Mfg_date, Price,
  101
  Laptop
  1200
  HP
  22-03-2019
  45000.00
   Record insertion Succesfull
  Do you want to continue(y/n)?
   1.Insert 2.Update 3.Delete 4.FInd 5.FindAll 6.exit
   Enter Your CHoice
  Item ID: 101
  Item Name: Laptop
  Available Quantity: 1200
   Manufacturer: HP
   Mfg date: 22-03-2019
   Price: 45000.0
  Do you want to continue(y/n)?
```

	ItemID	Itemname	QuantityAvailable	Manufacturer	Mfg_date	price
•	101	Laptop	1200	HP	22-03-2	45000
	102	tv	800	Sony	12-09-2	56000

2.Update Details:

Update 101 ID details

```
₽ □ Console ×
Invmain [Java Application] [pid: 26348]
1.Insert 2.Update 3.Delete 4.FInd 5.FindAll 6.exit
Enter Your CHoice
□ 2
  Enter the details:
  ItemIDkId, itemName, Quantity_Available, Manufacturer, Mfg_date, Price,
  101
  moblie
  500
  Samsung
  05-02-2020
  98000.00
  Record Updated succesfully
  Do you want to continue(y/n)?
  1.Insert 2.Update 3.Delete 4.FInd 5.FindAll 6.exit
  Enter Your CHoice
  Item ID: 101
  Item Name: moblie
  Available Quantity: 500
  Manufacturer: Samsung
  Mfg_date: 05-02-2020
  Price: 98000.0
  Item ID: 102
  Item Name: tv
  Available Quantity: 800
  Manufacturer: Sony
  Mfg_date: 12-09-2020
```

3.Delete Details:

Delete 102 ID details

```
₽ ☐ Console ×
hvmain [Java Application] D:\eclipse-java-2023-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.8.v20230831-1047\jre\bin\j
 1.Insert 2.Update 3.Delete 4.FInd 5.FindAll 6.exit
Enter Your CHoice
□ 3
  Enter the Item ID to Delete
  102
  Record Deleted succesfully
  Do you want to continue(y/n)?
  yes
  1.Insert 2.Update 3.Delete 4.FInd 5.FindAll 6.exit
  Enter Your CHoice
  Item ID: 101
  Item Name: mobile
  Available Quantity: 500
  Manufacturer: Samsung
  Mfg_date: 05-02-2020
  Price: 98000.0
  Do you want to continue(y/n)?
```

Deleted Form database:

	ItemID	Itemname	QuantityAvailable	Manufacturer	Mfg_date	price
١	101	mobile	500	Samsung	05-02-2020	98000

4.Find:

Find the 101 id details

```
Console X

Invmain [Java Application] [pid: 18196]

1. Insert 2. Update 3. Delete 4. FInd 5. FindAll 6. exit
Enter Your CHoice

4

Enter the Item ID

101

Item ID: 101

Item Name: mobile

Available Quantity: 500

Manufacturer: Samsung

Mfg_date: 05-02-2020

Price: 98000.0

Do you want to continue(y/n)?
```

5.FindAll:

```
☐ Console ×
Invmain [Java Application] D:\eclipse-java-2023-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.8.v2023083
1.Insert 2.Update 3.Delete 4.FInd 5.FindAll 6.exit Enter Your CHoice
   Item ID: 101
   Item Name: mobile
   Available Quantity: 500
   Manufacturer: Samsung
   Mfg_date: 05-02-2020
   Price: 98000.0
   Item ID: 102
   Item Name: SmartWatch
   Available Quantity: 500
   Manufacturer: Boat
   Mfg_date: 12-05-2021
   Price: 1500.0
   Do you want to continue(y/n)?
```