



SRI RAMACHANDRA

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Category - I Deemed to be University) Porur, Chennai

SRI RAMACHANDRA ENGINEERING AND TECHNOLOGY

CSE 280 ADVANCE JAVA

STUDENT WORK BOOK

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Year : II

Quarter : Q6

Department : B.Tech CSE (AI &ML)

Faculty Name : Prof. Ashok Kumar

Academic Year : 2020-2021

Date: 20-11-2020 (Class Practice) (Afternoon)

Questions:

Write a jsp program to find out the following

1. Product that sold most
2. Product that have not sold
3. The cheapest product and the most expensive product
4. The customer details who purchased the product 'pen'.
5. The customer details who purchased pencil but not pen.

DB info

Product table

id name price

Customer table

id name phonenumber address

invoice

id pid cid qty

Program:

Question 1:

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Q1</title>
</head>

<body>
  <h3>Products and Quantities Sold</h3>

  <br>

  <%@ page import="java.sql.*" %>

  <%

    try {
      Class.forName("com.mysql.cj.jdbc.Driver");

      Connection con = null;
      con = DriverManager.getConnection("jdbc:mysql://localhost:3307/advjava?useUnicode=true&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC","root","");
      java.sql.Statement stmt = con.createStatement();

      out.println("<table>");

      out.println("<tr><th>Product ID</th><th>Quantity Sold</th></tr>");
      ResultSet res = stmt.executeQuery("select pid, sum(qty) b from invoice group by pid order by b desc");
      while (res.next()) {
        out.println("<tr><td>"+res.getInt(1) + "</td><td>"+ " " + res.getString(2) + "</td>"+ " "+"<tr>");
      }
      out.println("</table>");
      con.close();
    }catch (Exception e) {
      e.printStackTrace();
      out.println(e.getLocalizedMessage());
    }
  }
<%>
</body>
</html>
```

```

    }
    %>

</body>
</html>

```

Question 2:

```

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Q2</title>
</head>

<body>
    <h3>Products That Are Not Sold</h3>
    <br>
    <%@ page import = "java.io.*,java.util.*" %>
    <%@ page import="java.sql.*" %>
    <%

    try {
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection con = null;
        con = DriverManager.getConnection("jdbc:mysql://localhost/advjava?useUnicode=true&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC", "root", "");

        java.sql.Statement stmt = con.createStatement();
        out.println("<table>");

        out.println("<tr><th>Product ID</th><th>Product Name</th><th>Product
Price</th></tr>");
        ResultSet res = stmt.executeQuery("SELECT * from products where id not in
(select pid from invoice)");
        while (res.next()) {
            out.println("<tr><td>"+res.getInt(1) + "</td><td>"+ " " + res.getStrin
g(2) + "</td>"+ " <td>"+res.getInt(3)+"</td>"+ " "+"</tr>");
        }
        out.println("</table>");
        con.close();
    }
    }
    %>

```

```

    } catch (Exception e) {
        e.printStackTrace();
        out.println(e.getLocalizedMessage());
    }

    %>
</body>

</html>

```

Question 3:

```

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Q3</title>
</head>

<body>
    <h3>Products That Are Not Sold</h3>
    <br>
    <%@ page import = "java.io.*,java.util.*" %>
    <%@ page import="java.sql.*" %>
    <%

    try {
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection con = null;
        con = DriverManager.getConnection("jdbc:mysql://localhost/advjava?use
Unicode=true&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serve
rTimezone=UTC","root", "");
        java.sql.Statement stmt = con.createStatement();
        out.println("<table>");
        out.println("<tr><th>Product ID</th><th>Product Name</th><th>Product
Price</th></tr>");
        ResultSet res = stmt.executeQuery("SELECT * from products where pric
e= (select max(price) from products) or price= (select min(price) from products)"
);
    }
    %>

```



```

        out.println("<tr><th>Customer ID</th><th>Customer Name</th><th>Customer P
hone Number</th><th>Customer Address</th></tr>");
        ResultSet res = stmt.executeQuery("select * from customers where id in (S
ELECT cid FROM `invoice` where pid=1)");
        while (res.next()) {
            out.println("<tr><td>" + res.getInt(1) + "</td><td>" + " " + res.getStrin
g(2) + "</td>" + "<td>" + res.getLong(3) + "</td>" + "<td>" + res.getString(4) + "</td>" + "</
tr>");
        }
        out.println("</table>");
        con.close();
    } catch (Exception e) {
        e.printStackTrace();
        out.println(e.getLocalizedMessage());
    }
    %>
</body>

</html>

```

Question 5:

```

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Q5</title>
</head>

<body>
    <h3>Customers who purchased pencil but not pen</h3>
    <%@ page import = "java.io.*,java.util.*" %>
    <%@ page import="java.sql.*" %>
    <%

    try {
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection con = null;
        con = DriverManager.getConnection("jdbc:mysql://localhost/advjava?useUnic
ode=true&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTim
ezone=UTC","root", "");
    }
    %>

```

```

        java.sql.Statement stmt = con.createStatement();
        out.println("<table>");
        out.println("<tr><th>Customer ID</th><th>Customer Name</th><th>Customer P
hone Number</th><th>Customer Address</th></tr>");
        ResultSet res = stmt.executeQuery("select * from customers where id not i
n (SELECT cid FROM `invoice` where pid=1) and id in (SELECT cid FROM `invoice` wh
ere pid=2)");
        while (res.next()) {
            out.println("<tr><td>" + res.getInt(1) + "</td><td>" + " " + res.getStrin
g(2) + "</td>" + " <td>" + res.getLong(3) + "</td>" + "<td>" + res.getString(4) + "</td>" + "</
tr>");
        }
        out.println("</table>");
        con.close();
    } catch (Exception e) {
        e.printStackTrace();
        out.println(e.getLocalizedMessage());
    }
    %>
</body>

</html>

```


Output:

Products and Quantities Sold

Product ID	Quantity Sold
7	10
1	5
10	4
5	3
3	2
2	1
8	1

Products That Are Not Sold

Product ID	Product Name	Product Price
4	marker	30
6	a4 paper	2
9	chart	4

Maximum and Minimum priced products

Product ID	Product Name	Product Price
4	marker	30
7	paperclip	1

Customers who purchased pen

Customer ID	Customer Name	Customer Phone Number	Customer Address
1	abc	123456789	Add1
2	def	2345617	Add2

Customers who purchased pencil but not pen

Customer ID	Customer Name	Customer Phone Number	Customer Address
3	ghi	98765432	Add3