

SRI RAMACHANDRA ENGINEERING AND TECHNOLOGY

CSE 280 ADVANCE JAVA

STUDENT WORK BOOK

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Year : II

Quarter: Q6

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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:

XML:

```
<web-app>
<servlet>
<servlet-name>q1</servlet-name>
<servlet-class>q1</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>q1</servlet-name>
<url-pattern>/q1</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>q2</servlet-name>
<servlet-class>q2</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>q2</servlet-name>
<url-pattern>/q2</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>q3</servlet-name>
<servlet-class>q3</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>q3</servlet-name>
<url-pattern>/q3</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>q4</servlet-name>
<servlet-class>q4</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>q4</servlet-name>
<url-pattern>/q4</url-pattern>
</servlet-mapping>
```

```
<servlet>
<servlet-name>q5</servlet-name>
<servlet-class>q5</servlet-class>
</servlet>

<servlet-mapping>
<servlet-name>q5</servlet-name>
<url-pattern>/q5</url-pattern>
</servlet-mapping>
</web-app>
```

SERVLETS:

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;
public class q1 extends HttpServlet {
    public void init() throws ServletException {
    }
    public void doGet(HttpServletRequest request, HttpServletResponse response) t
hrows ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        out.println("<html><body>");
        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("");
```

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;

public class q2 extends HttpServlet {

    public void init() throws ServletException {
    }

    public void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        out.print("<html><body>");
        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("");
             uct Price");
          ResultSet res = stmt.executeQuery("SELECT * from products where id no
t in (select pid from invoice)");
          while (res.next()) {
             out.println(""+res.getInt(1) +"" " " + res.getS
tring(2) +"" + " " + res.getInt(3) + " " + " " + " ");
          out.println("");
          out.println("</body></html>");
          con.close();
      } catch (Exception e) {
          e.printStackTrace();
          out.println(e.getLocalizedMessage());
   public void destroy() {
```

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;

public class q3 extends HttpServlet {
    public void init() throws ServletException {
    }
}
```

```
public void doGet(HttpServletRequest request, HttpServletResponse response) t
hrows ServletException, IOException {
       response.setContentType("text/html");
       PrintWriter out = response.getWriter();
       out.println("<html><body>");
       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("");
           out.println("Product IDProduct NameProduct
Price");
           ResultSet res = stmt.executeQuery("SELECT * from products where pric
e= (select max(price) from products) or price= (select min(price) from products)"
);
           while (res.next()) {
               out.println(""+res.getInt(1) +""+ " " + res.getS
tring(2) +"" + " " + res.getInt(3) + " " + " " + " ");
           out.println("");
           out.println("</body></html>");
           con.close();
       }catch (Exception e) {
       e.printStackTrace();
       out.println(e.getLocalizedMessage());
   public void destroy() {
```

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;
```

```
public class q4 extends HttpServlet {
   public void init() throws ServletException {
   public void doGet(HttpServletRequest request, HttpServletResponse response) t
hrows ServletException, IOException {
       response.setContentType("text/html");
       PrintWriter out = response.getWriter();
       out.println("<html><body>");
       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("");
          out.println("Customer IDCustomer NameCustom
er Phone NumberCustomer Address");
          ResultSet res = stmt.executeQuery("select * from customers where id i
n (SELECT cid FROM `invoice` where pid=1)");
          while (res.next()) {
              out.println(""+res.getInt(1) +""+ " " + res.getS
+"");
          out.println("");
          out.println("</body></html>");
          con.close();
       } catch (Exception e) {
          e.printStackTrace();
          out.println(e.getLocalizedMessage());
   public void destroy() {
```

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;
public class q5 extends HttpServlet {
   public void init() throws ServletException {
   public void doGet(HttpServletRequest request, HttpServletResponse response) t
hrows ServletException, IOException {
       response.setContentType("text/html");
       PrintWriter out = response.getWriter();
       out.println("<html><body>");
       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("");
           out.println("Customer IDCustomer NameCustom
er Phone NumberCustomer Address");
           ResultSet res = stmt.executeQuery("select * from customers where id n
ot in (SELECT cid FROM `invoice` where pid=1) and id in (SELECT cid FROM `invoice
 where pid=2)");
           while (res.next()) {
               out.println(""+res.getInt(1) +""+ " " + res.getS
tring(2) +"" + ""+res.getLong(3)+"" +""+res.getString(4)+""
+"");
           out.println("</table");</pre>
           out.println("</body></html>");
           con.close();
       } catch (Exception e) {
           e.printStackTrace();
           out.println(e.getLocalizedMessage());
```

```
public void destroy() {
}
```

Output:

Product ID Quantity Sold

Product ID Product Name Product Price

4 marker 30 6 a4 paper 2 9 chart 4

Product ID Product Name Product Price

4 marker 30 7 paperclip 1

Customer ID Customer Name Customer Phone Number Customer Address

1 abc 123456789 Add1 2 def 2345617 Add2

Customer ID Customer Name Customer Phone Number Customer Address

3 ghi 98765432 Add3