COSC 3380

Name: __Paola Garibay__ Seat# _F1 Project 3:

(100 points.)

(Due date found in the COSC 3380 Detailed Syllabus!)

Use the **COSC3380 Database** created in Project 2.

Part 1. Stored Procedures

1.

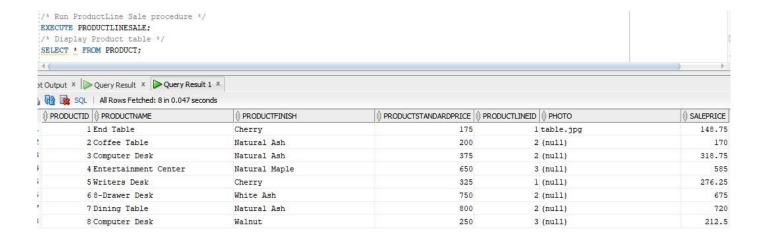
a. Create a simple procedure **ProductLineSale**, to be used by that will set a sale price to the existing Product table in the **COSC3380 Database** by adding a new column, SalePrice DECIMAL (6,2), that will hold the sale price for the products:

The **ProductLineSale** procedure should scan all rows of the **Product** table. Products with a ProductStandardPrice of \$400 or higher are discounted 10 percent, and products with a ProductStandardPrice of less than \$400 are discounted 15 percent. As with other database objects, there are Oracle SQL commands to create, alter, replace, drop, and show the code for procedures.

```
□ /* Create Procedure ProductLineSale
         add a new column, SalePrice DECIMAL (6,2)
         scan all rows of the Product table
         Products with a ProductStandardPrice of $400 or higher are discounted 10 percent &
        Products with a ProductStandardPrice of less than $ 400 are discounted 15 percent */
     ALTER TABLE PRODUCT
        ADD SALEPRICE DECIMAL(6, 2);
   ☐ CREATE OR REPLACE PROCEDURE PRODUCTLINESALE AS
         UPDATE PRODUCT P
             SET P.SALEPRICE = P.PRODUCTSTANDARDPRICE - P.PRODUCTSTANDARDPRICE*.10
             WHERE P.PRODUCTSTANDARDPRICE >= 400;
             SET P.SALEPRICE = P.PRODUCTSTANDARDPRICE - P.PRODUCTSTANDARDPRICE*.15
             WHERE P.PRODUCTSTANDARDPRICE < 400;
     END PRODUCTLINESALE:
Script Output × Query Result ×
📌 🧽 🔡 볼 📕 | Task completed in 0.18 seconds
```

Procedure PRODUCTLINESALE compiled

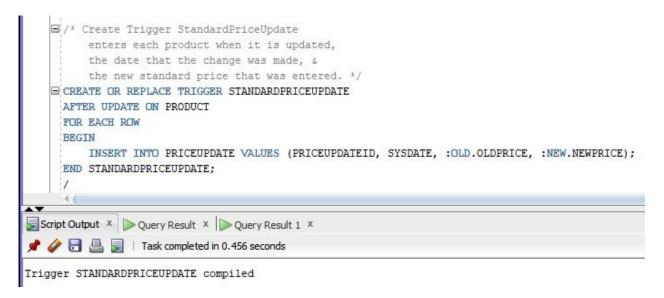
- b. Run the **ProductLineSale** procedure in Oracle.
- c. Display the contents of the **PRODUCT** table.



Part 2. TRIGGERS

Consider the following example: The inventory manager needs to know (the action of being informed) when an inventory item's standard price is updated in the Product table (the event). After creating a new table, PriceUpdates, write a trigger that enters each product when it is updated, the date that the change was made, and the new standard price that was entered.

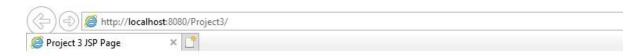
1. Write and run the trigger named StandardPriceUpdate



Part 3. Accessing COSC3380 Database from JSP

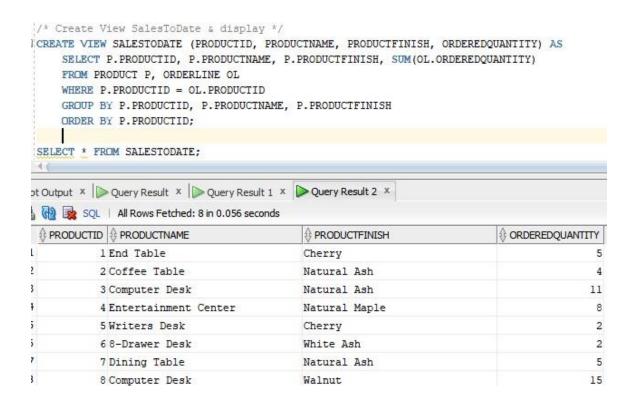
A JSP Web Page Create SalestoDate.jsp

(jsp page oracle 12c DBMS backend)



Sales To Date

PRODUCT ID	PRODUCT NAME	PRODUCT FINISH	ORDERED QUANTITY
1	End Table	Cherry	5
2	Coffee Table	Natural Ash	4
3	Computer Desk	Natural Ash	11
4	Entertainment Center	Natural Maple	8
5	Writers Desk	Cherry	2
6	8-Drawer Desk	White Ash	2
7	Dining Table	Natural Ash	5
8	Computer Desk	Walnut	15



```
index.jsp × SQL 1 [jdbc:orade:thin:@129.7.2...] ×
 Source History 🔯 😼 + 💹 + 💆 🔁 🞝 😓 📮 📮 😭 🚱 😉 💇 🥚 🗐
 8 -- <8---
 2
           Document : Project 3
 3
           Author : Paola Garibay
  4
  5
       <%@ page import = "java.sql.*"%>
  6
       <%@ page import = "java.io.*" %>
  7
    - <% Class.forName("oracle.jdbc.driver.OracleDriver");%>
  8
       <%@page contentType="text/html" pageEncoding="UTF-8"%>
 9
 10
       <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
 11
           "http://www.w3.org/TR/html4/loose.dtd">
    - <html>
 12
 13
    Ė
           <head>
               <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
 14
               <title>Project 3 JSP Page</title>
 15
 16
           </head>
 17
           <body>
               <hl>Sales To Date</hl>
 18
 19
 20
    Ė
                   String url = "jdbc:oracle:thin:@129.7.240.3:1521:orcl";
 21
                    //Establish connection
 22
 23
                   Connection conn = DriverManager.getConnection(url, "GARIBAYP", "GARIBAYP#");
 24
 25
                   Statement statement = conn.createStatement();
 26
                    ResultSet resultset = statement.executeQuery("SELECT * FROM SALESTODATE");
 27
index.jsp × SQL 1 [jdbc:orade:thin:@129.7.2...] ×
                   28
 29
              < -- Setup the Output Report HTML View --%>
 30
             <TABLE BORDER ="1" BGCOLOR ="CCFFFF" width ="50%" cellspacing="1" cellpadding ="0" bordercolor="BLACK" border ="1">
 31
                 <TR>
 32
                     <TH bgcolor="#DAA520"> <font size="2"/>PRODUCT ID</TH>
                     <TH bgcolor="#DAA520"> <font size="2"/>PRODUCT NAME</TH>
 33
 34
                     <TH bgcolor="#DAA520"> <font size="2"/>PRODUCT FINISH</TH>
                     <TH bgcolor='#DAA520'> <font size='2'/>ORDERED QUANTITY</TH>
 35
                 </TR>
 36
 37
                 <% while (resultset.next()) {%>
38
                 <TR>
 39
                     <TD> <font size ='2'/><center><%= resultset.getString(1)%></center></TD>
 40
                     <TD> <font size ='2'/><center><%= resultset.getString(2)%></center></TD>
 41
                     <TD> <font size ='2'/><center><%= resultset.getString(3)%></center></TD>
 42
   阜
                     <TD> <font size ='2'/><center><%= resultset.getString(4)%></center></TD>
 43
                 </TR>
 44
                 <% }%>
 45
              </TABLE>
          </body>
 46
       /html>
```