



# **VAAL UNIVERSITY OF TECHNOLOGY**

**FACULTY OF APPLIED AND COMPUTER SCIENCES**

**Semester 2 2014- Practical Assignment**

**AIISY3A-Information Systems 3.2**

## **Lecturers:**

**Mr. R. da Rocha**

**Mr. V. Thomas**

## **Instructions:**

This is a group assignment to be submitted as per group created for the practical project. The lecturer's permission is required if alone in a group. If permission has not been granted for personal submission, the assignment will not be marked.

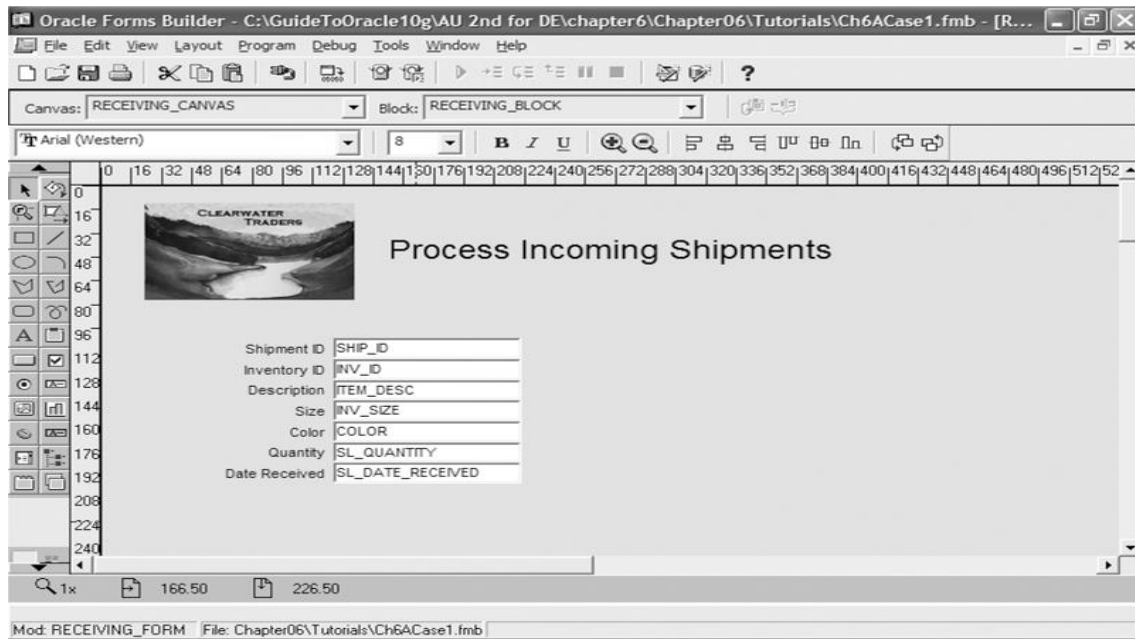
Create a folder named by one of the member's student number (e.g.: **Assignment\_209040073**); include all the oracle forms and report files necessary to complete the assignment. Include a cover sheet for your assignment that includes all members' initials, surnames and student numbers in a notepad file. Once completed, compress your folder into a single ZIP or RAR file.

You will post your assignment on MyVUT on/before 10 PM on Monday 13<sup>th</sup> October 2014. MyVUT will automatically close the assignment and late submissions will not be accepted.

The following case(s) use the Clearwater Traders (Figure 1-24) (Figure 1-25) sample database. These case problems reference the Clearwater Traders sample database. Before starting these exercises, make sure you run the Ch7Clearwater.sql script file in the from the Data Files/Chapter 7 folder.

## Question 1 (40 Marks)

**Case 1.** Create the custom form shown in Figure 6-22 below. The purpose of the form is to allow the receiving clerk to confirm the shipment quantity, change the quantity if the shipment contains a different quantity than expected and update the SL\_DATE\_RECEIVED column of the SHIPMENT\_LINE table.



**Figure 6-22** Receiving form

- A. Name the form : **SHIPMENT\_FORM**  
the window: **SHIPMENT\_WINDOW**  
the canvas: **SHIPMENT\_CANVAS**
  1. Save your form file as **Q1Case1.fmb**.
  2. The form should display values for the Shipment ID, Inventory ID, Inventory Description, Size, Color, Quantity, and the Date the shipment is received.
  3. The date the shipment is received should be assigned the default value of the operating system's date.
  4. Allow the user to select the Shipment ID and retrieve data from the SHIPMENT\_LINE table using an LOV display.
  5. Display the Clearwater Traders logo as shown in Figure 6-22 and the title: "Process Incoming Shipments" as Arial Western, Bold, 16 points.
  6. After you have finished design/creating your form and are satisfied with it save the form and Run your form. Open your LOV select a Shipment ID and close your LOV so that your fields are displayed in the text items on the form. Change the quantity field "20" and the Date Received field should reflect the default date as described in A.3 above.

- Case 2.** Modify the form you created in Case 1 to include an Update button that updates the SHIPMENT\_LINE table with the actual quantity received and the date the shipment is received. Place the Update and Cancel buttons to the right of the form text items
- Clicking this Update Button should also update the Quantity on Hand (QOH) field of the INVENTORY table with the revised quantity of the inventory item.
  - Create a program unit called CLEAR\_RECEIVING\_FORM that clears out each of the form's text items: ship\_id, inv\_id, item\_desc, inv\_size, color, and sl\_quantity. Refer to pages 423 – 425 if you need to refresh how to do this.
  - Also include a Cancel button to cancel the current operation and clear all the form text items. The WHEN\_BUTTON\_PRESSED trigger code for this cancel button should invoke the CLEAR\_RECEIVING\_FORM program unit you created in B above.
  - Save your new, updated form as **Q1Case2.fmb**.
  - Run your form and update a record.

## Question 2 (60 Marks)

- Case 1.** Create an Order report that displays each order placed by a customer (see figure below)

**Orders**

Customer: 4 Paul Phelp  
 994 Kirkman Rd. Northpoint NY 11795  
 Order ID: 5 Order Date: 06/01/06

Item Description	Quantity Ordered	Price	Ext Price
Women's Hiking Shorts	1	29.95	29.95
Women's Fleece Pullover	1	59.95	59.95

Order ID: 6 Order Date: 06/01/06

Item Description	Quantity Ordered	Price	Ext Price
Women's Hiking Shorts	3	29.95	89.85
3-Season Tent	1	259.99	259.99

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- The report should include each customer's First name, middle initial, last name and address
- For each customer order display the Order ID, Order date and the description of items purchased along with the appropriate quantity and price.
- In the report query you create add the formula:  $OL-QUANTITY * INV\_PRICE$  to the Select statement of the underlying report query and assign EXT\_PRICE as the column alias.

- D.** Include the calculated value (extended price) on the report for each item ordered.
- E.** Save your report as **Q2Case1.rdf**
- F.** Formatting your Report:
1. Make sure that the customer's first name, middle initial and last name all appear side-by-side with a couple of spaces between each.
  2. Modify the report so that each customer prints on a separate page.
  3. Include the Clearwater Logo in the top Margin along with the "Page X" in the top margin right aligned, (where 'X' is the actual page number).
  4. Modify the Order Date field to appear as "MM/DD/RR"
- G.** Creating a User Parameter:
1. Create a User Parameter that displays the First name, middle initial and last name of all the customers from the Customer table. Name your User Parameter **SELECTED\_CUSTOMER** with a Data Type of Number with a width of 5 which is the same as the C\_ID on the Customer table.
  2. Change your Query accordingly so that it selects off based on which customer is selected in the User Parameter.
  3. Modify your User Parameter:
    - a. Title: Clearwater Traders
    - b. Hint Line: Customer Report User Parameters
    - c. Status Line: Select Parameter Values
    - d. Allow the user to select the type of device the report is spooled to.
    - e. Display the Clearwater Traders' Logo on the Parameter window centered at the top.
- H.** Run your Customer Report with User Parameter and save the report.

[TOTAL MARKS : 100]