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**Class IT-314-DL1 Practice Problems: Cursors and Exception Handling**

**Assignment 4-1: Using an Explicit Cursor**

In the Brewbean’s application, a customer can ask to check whether all items in his or her

basket are in stock. In this assignment, you create a block that uses an explicit cursor to

retrieve all items in the basket and determine whether all items are in stock by comparing the

item quantity with the product stock amount. If all items are in stock, display the message

“All items in stock!” onscreen. If not, display the message “All items NOT in stock!” onscreen.

The basket number is provided with an initialized variable. Follow these steps:

1. In SQL Developer, open the assignment04-01.sql file in the Chapter04 folder.

2. Run the block. Notice that both a cursor and a record variable are created in the DECLARE

section. The cursor must be manipulated with explicit actions of OPEN, FETCH, and CLOSE.

A variable named lv\_flag\_txt is used to store the status of the stock check. The results

should look like Figure 4-33.

A screenshot of a computer program

Description automatically generated

**Assignment 4-2: Using a CURSOR FOR Loop**

Brewbean’s wants to send a promotion via e-mail to shoppers. A shopper who has purchased

more than $50 at the site receives a $5 coupon for his or her next purchase over $25. A

shopper who has spent more than $100 receives a free shipping coupon.

The BB\_SHOPPER table contains a column named PROMO for storing promotion codes.

Follow the steps to create a block with a CURSOR FOR loop to check the total spent by each

shopper and update the PROMO column in the BB\_SHOPPER table accordingly. The cursor’s

SELECT statement contains a subquery in the FROM clause to retrieve the shopper totals

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**Assignment 4-3: Using Implicit Cursors**

The BB\_SHOPPER table in the Brewbean’s database contains a column named PROMO that

specifies promotions to send to shoppers. This column needs to be cleared after the promotion

has been sent. First, open the assignment04-03.txt file in the Chapter04 folder in a text

editor (such as Notepad). Run the UPDATE and COMMIT statements at the top of this file (not

the anonymous block at the end). Modify the anonymous block so that it displays the number of

rows updated onscreen. Run the block.

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**Assignment 4-4: Using Exception Handling**

In this assignment, you test a block containing a CASE statement for errors, and then add an

exception handler for a predefined exception:

1. In Notepad, open the assignment04-04.sql file in the Chapter04 folder. Review the

block, which contains a CASE statement and no exception handlers.

2. Copy and paste the block into SQL Developer and run the block. Your results should

look like Figure 4-35. An error is raised because the state of NJ isn’t included in the CASE

statement: recall that a CASE statement must find a matching case.

3. To correct this problem, add a predefined EXCEPTION handler that addresses this error and displays “No tax” onscreen.

4. Run the block again. Your results should look like Figure 4-36. Now the error is handled in the block’s EXCEPTION section.

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