*`Edson Sanchez* ITI-3400 Database Programming

**3-1**

DECLARE

lv\_ship\_date bb\_basketstatus.dtstage%TYPE;

lv\_shipper\_txt bb\_basketstatus.shipper%TYPE;

lv\_ship\_num bb\_basketstatus.shippingnum%TYPE;

lv\_bask\_num bb\_basketstatus.idbasket%TYPE := 7;

BEGIN

SELECT

dtstage,

shipper,

shippingnum

INTO

lv\_ship\_date,

lv\_shipper\_txt,

lv\_ship\_num

FROM

bb\_basketstatus

WHERE

idbasket = lv\_bask\_num

AND idstage = 5;

dbms\_output.put\_line('Date Shipped: ' || lv\_ship\_date);

dbms\_output.put\_line('Shipper: ' || lv\_shipper\_txt);

dbms\_output.put\_line('Shipping #: ' || lv\_ship\_num);

END;

Date Shipped: 25-JAN-12

Shipper: UPS

Shipping #: ZW845584GD89H569

PL/SQL procedure successfully completed.

Error starting at line : 1 in command -

DECLARE

lv\_ship\_date bb\_basketstatus.dtstage%TYPE;

lv\_shipper\_txt bb\_basketstatus.shipper%TYPE;

lv\_ship\_num bb\_basketstatus.shippingnum%TYPE;

lv\_bask\_num bb\_basketstatus.idbasket%TYPE := 7;

BEGIN

SELECT dtstage, shipper, shippingnum

INTO lv\_ship\_date, lv\_shipper\_txt, lv\_ship\_num

FROM bb\_basketstatus

WHERE idbasket = lv\_bask\_num

AND idstage = 5;

DBMS\_OUTPUT.PUT\_LINE('Date Shipped: '||lv\_ship\_date);

DBMS\_OUTPUT.PUT\_LINE('Shipper: '||lv\_shipper\_txt);

DBMS\_OUTPUT.PUT\_LINE('Shipping #: '||lv\_ship\_num);

END;

Error report -

ORA-01403: no data found

ORA-06512: at line 7

01403. 00000 - "no data found"

\*Cause: No data was found from the objects.

\*Action: There was no data from the objects which may be due to end of fetch.

**3-2**

DECLARE

rec\_ship bb\_basketstatus%rowtype;

lv\_bask\_num bb\_basketstatus.idbasket%TYPE := 3;

BEGIN

SELECT

\*

INTO rec\_ship

FROM

bb\_basketstatus

WHERE

idbasket = lv\_bask\_num

AND idstage = 5;

dbms\_output.put\_line('Date Shipped: ' || rec\_ship.dtstage);

dbms\_output.put\_line('Shipper: ' || rec\_ship.shipper);

dbms\_output.put\_line('Shipping #: ' || rec\_ship.shippingnum);

dbms\_output.put\_line('Notes: ' || rec\_ship.notes);

END;

Date Shipped: 25-JAN-12

Shipper: UPS

Shipping #: ZW845584GD89H569

Notes: Customer called to confirm shipment

PL/SQL procedure successfully completed.

**3-3**

DECLARE

lv\_total\_num NUMBER(6,2);

lv\_rating\_txt VARCHAR2(4);

lv\_shop\_num bb\_basket.idshopper%TYPE := 23;

BEGIN

SELECT

SUM(total)

INTO lv\_total\_num

FROM

bb\_basket

WHERE

idshopper = lv\_shop\_num

AND orderplaced = 1

GROUP BY

idshopper;

IF

lv\_total\_num > 200

THEN

lv\_rating\_txt := 'HIGH';

ELSIF lv\_total\_num > 100 THEN

lv\_rating\_txt := 'MID';

ELSIF lv\_total\_num <= 100 THEN

lv\_rating\_txt := 'LOW';

END IF;

dbms\_output.put\_line('Shopper '

|| lv\_shop\_num

|| ' is rated '

|| lv\_rating\_txt);

END;

Shopper 21 is rated LOW

PL/SQL procedure successfully completed.

Shopper 22 is rated HIGH

PL/SQL procedure successfully completed.

Shopper 23 is rated LOW

PL/SQL procedure successfully completed.

SELECT

sum(total)

FROM

bb\_basket

WHERE

idshopper = 21;

SUM(TOTAL)

66.76

SELECT

sum(total)

FROM

bb\_basket

WHERE

idshopper = 22;

SUM(TOTAL)

210.21

SELECT

sum(total)

FROM

bb\_basket

WHERE

idshopper = 23;

SUM(TOTAL)

81.75

**3-4**

DECLARE

lv\_total\_num NUMBER(6,2);

lv\_rating\_txt VARCHAR2(4);

lv\_shop\_num bb\_basket.idshopper%TYPE := 23;

BEGIN

SELECT

SUM(total)

INTO lv\_total\_num

FROM

bb\_basket

WHERE

idshopper = lv\_shop\_num

AND orderplaced = 1

GROUP BY

idshopper;

CASE

WHEN lv\_total\_num > 200 THEN

lv\_rating\_txt := 'High';

WHEN lv\_total\_num > 100 THEN

lv\_rating\_txt := 'Mid';

WHEN lv\_total\_num <= 100 THEN

lv\_rating\_txt := 'Low';

END CASE;

dbms\_output.put\_line('Shopper '

|| lv\_shop\_num

|| ' is rated '

|| lv\_rating\_txt);

END;

Shopper 21 is rated Low

PL/SQL procedure successfully completed.

Shopper 22 is rated High

PL/SQL procedure successfully completed.

Shopper 23 is rated Low

PL/SQL procedure successfully completed.

**3-5**

DECLARE

productprice bb\_product.price%TYPE;

spend NUMBER(5,2) := 125;

productid bb\_product.idproduct%TYPE := 10;

quantity NUMBER(5,2) := 0;

BEGIN

SELECT

price

INTO productprice

FROM

bb\_product

WHERE

idproduct = productid;

dbms\_output.put\_line('Amount to spend is $' ||spend);

WHILE spend >= productprice LOOP

spend := spend - productprice;

quantity := quantity + 1;

END LOOP;

dbms\_output.put\_line('You can buy ' || quantity || ' items.');

END;

Amount to spend is $100

You can buy 3 items.

PL/SQL procedure successfully completed.

Amount to spend is $500

You can buy 3 items.

PL/SQL procedure successfully completed.

Amount to spend is $125

You can buy 12 items.

PL/SQL procedure successfully completed.

**3-6**

DECLARE

basketid bb\_basket.idbasket%TYPE := 12;

shipping\_cost NUMBER(5,2);

bb\_quantity bb\_basket.quantity%TYPE;

BEGIN

SELECT

quantity

INTO bb\_quantity

FROM

bb\_basket

WHERE

idbasket = basketid;

IF

bb\_quantity <= 3

THEN

shipping\_cost := 5;

ELSIF bb\_quantity BETWEEN 4 AND 6 THEN

shipping\_cost := 7.50;

ELSIF bb\_quantity BETWEEN 7 AND 10 THEN

shipping\_cost := 10;

ELSIF bb\_quantity > 10 THEN

shipping\_cost := 12;

END IF;

dbms\_output.put\_line('Basket '

|| basketid

|| ' has '

|| bb\_quantity

|| ' items, the shipping would cost $'

|| shipping\_cost

|| '.');

END;

Basket 5 has 4 items, the shipping would cost $7.5.

PL/SQL procedure successfully completed.

Basket 12 has 7 items, the shipping would cost $10.

PL/SQL procedure successfully completed.

**3-7**

DECLARE

basketid bb\_basket.idbasket%TYPE := 12;

subtotal bb\_basket.subtotal%TYPE;

shipping bb\_basket.shipping%TYPE;

tax bb\_basket.tax%TYPE;

total bb\_basket.total%TYPE;

BEGIN

SELECT

subtotal,

shipping,

tax,

total

INTO

subtotal,

shipping,

tax,

total

FROM

bb\_basket

WHERE

idbasket = basketid;

dbms\_output.put\_line('Order Summary for basket ' || basketid);

dbms\_output.put\_line('Subtotal : $' || subtotal);

dbms\_output.put\_line('Shipping : $' || shipping);

dbms\_output.put\_line('Tax : $' || tax);

dbms\_output.put\_line('Total : $' || total);

END;

Order Summary for basket 12

Subtotal : $72.4

Shipping : $8

Tax : $3.26

Total : $83.66

PL/SQL procedure successfully completed.

**3-8**

DECLARE

basketid bb\_basket.idbasket%TYPE := 12;

rec\_order bb\_basket%rowtype;

BEGIN

SELECT

\*

INTO rec\_order

FROM

bb\_basket

WHERE

idbasket = basketid;

dbms\_output.put\_line('Order Summary for basket ' || rec\_order.idbasket);

dbms\_output.put\_line('Subtotal : $' || rec\_order.subtotal);

dbms\_output.put\_line('Shipping : $' || rec\_order.shipping);

dbms\_output.put\_line('Tax : $' || rec\_order.tax);

dbms\_output.put\_line('Total : $' || rec\_order.total);

END;

Order Summary for basket 12

Subtotal : $72.4

Shipping : $8

Tax : $3.26

Total : $83.66

PL/SQL procedure successfully completed.