*Edson Sanchez* ITI-3400 Database Programming

**Two raised to powers problem**

DECLARE

lv\_power NUMBER(2) := 5;

lv\_num NUMBER(10) := 1;

lv\_count NUMBER(2) := 0;

BEGIN

LOOP

IF

lv\_power > 32

THEN

dbms\_output.put\_line('Maximum power allowed is 32.');

EXIT;

END IF;

lv\_num := lv\_num \* 2;

lv\_count := lv\_count + 1;

dbms\_output.put\_line(lv\_num);

EXIT WHEN lv\_count >= lv\_power;

END LOOP;

END;

2

4

8

16

32

PL/SQL procedure successfully completed.

DECLARE

lv\_power NUMBER(2) := 33;

lv\_num NUMBER(10) := 1;

lv\_count NUMBER(2) := 0;

BEGIN

LOOP

IF

lv\_power > 32

THEN

dbms\_output.put\_line('Maximum power allowed is 32.');

EXIT;

END IF;

lv\_num := lv\_num \* 2;

lv\_count := lv\_count + 1;

dbms\_output.put\_line(lv\_num);

EXIT WHEN lv\_count >= lv\_power;

END LOOP;

END;

Maximum power allowed is 32.

PL/SQL procedure successfully completed.

**4-4**

DECLARE

lv\_tax\_num NUMBER(2,2);

BEGIN

CASE

'NJ'

WHEN 'VA' THEN

lv\_tax\_num :=.04;

WHEN 'NC' THEN

lv\_tax\_num :=.02;

WHEN 'NY' THEN

lv\_tax\_num :=.06;

END CASE;

dbms\_output.put\_line('tax rate = ' || lv\_tax\_num);

EXCEPTION

WHEN case\_not\_found THEN

dbms\_output.put\_line('No tax.');

END;

No tax.

PL/SQL procedure successfully completed.

**4-5**

DECLARE

rec\_shopper bb\_shopper%rowtype;

lv\_shopper\_num bb\_shopper.idshopper%TYPE := 99;

BEGIN

SELECT

\*

INTO rec\_shopper

FROM

bb\_shopper

WHERE

idshopper = lv\_shopper\_num;

EXCEPTION

WHEN no\_data\_found THEN

dbms\_output.put\_line('Invalid Shopper ID.');

END;

Invalid Shopper ID.

PL/SQL procedure successfully completed.

**4-8**

DECLARE

CURSOR cur\_emp IS SELECT

empno,

ename,

job,

sal

FROM

employee

FOR UPDATE NOWAIT;

raise\_num NUMBER(7);

newsal NUMBER(7);

total NUMBER(7) := 0;

BEGIN

FOR rec\_emp IN cur\_emp LOOP

IF

rec\_emp.job != 'PRESIDENT'

THEN

rec\_emp.sal := rec\_emp.sal \* 12;

raise\_num := rec\_emp.sal \*.06;

IF

raise\_num > 2000

THEN

raise\_num := 2000;

END IF;

newsal := raise\_num + rec\_emp.sal;

dbms\_output.put\_line('Employee NO.'

|| rec\_emp.empno

|| ' is '

|| rec\_emp.ename

|| ' their current salary is $'

|| rec\_emp.sal

|| ' , their raise is $'

|| raise\_num

|| ' , which would make their new salary $'

|| newsal);

total := raise\_num + total;

UPDATE employee

SET

sal = newsal

WHERE

CURRENT OF cur\_emp;

END IF;

END LOOP;

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

END;

Employee NO.7698 is BLAKE their current salary is $34200 , their raise is $2000 , which would make their new salary $36200

Employee NO.7782 is CLARK their current salary is $29400 , their raise is $1764 , which would make their new salary $31164

Employee NO.7566 is JONES their current salary is $35700 , their raise is $2000 , which would make their new salary $37700

Employee NO.7654 is MARTIN their current salary is $15000 , their raise is $900 , which would make their new salary $15900

Employee NO.7499 is ALLEN their current salary is $19200 , their raise is $1152 , which would make their new salary $20352

Employee NO.7844 is TURNER their current salary is $18000 , their raise is $1080 , which would make their new salary $19080

Employee NO.7900 is JAMES their current salary is $11400 , their raise is $684 , which would make their new salary $12084

Employee NO.7521 is WARD their current salary is $15000 , their raise is $900 , which would make their new salary $15900

Employee NO.7902 is FORD their current salary is $36000 , their raise is $2000 , which would make their new salary $38000

Employee NO.7369 is SMITH their current salary is $9600 , their raise is $576 , which would make their new salary $10176

Employee NO.7788 is SCOTT their current salary is $36000 , their raise is $2000 , which would make their new salary $38000

Employee NO.7876 is ADAMS their current salary is $13200 , their raise is $792 , which would make their new salary $13992

Employee NO.7934 is MILLER their current salary is $15600 , their raise is $936 , which would make their new salary $16536

Overall raise total: $16784

PL/SQL procedure successfully completed.