

22/9/25

TASK 7

PROCEDURE FUNCTION AND LOOPS

PROGRAM USING PL/SQL procedures

FUNCTIONS & loops

AIM:- To implement PL/SQL procedures functions

and loops on numbers theory and Business.

Scenrio

1- SAMPLE PL/SQL Program :-

DECLARE

MESSAGE VARCHAR2(20) := 'Booking closed';

BEGIN

DBMS_OUTPUT.PUT_LINE(MESSAGE);

END;

OUTPUT:-

Booking closed

2- conditional statement

DECLARE

hid NUMBER(3) := 100;

BEGIN

IF (hid > 10) THEN

DBMS_OUTPUT.PUT_LINE ('Value of hid is '|| hid || ',');
else if (hid = 70) THEN,

DBMS_OUTPUT.PUT_LINE ('Value of hid is '|| hid || ',');
20);

END IF

dbms_output.put_line('Exact value of hid is '||hid);
END;

OUTPUT

NONE of the value is matching

Exact value of hid is 100

NESTED LOOPS EXAMPLES

DECLARE

hid number(1);

hid number(1);

BEGIN.

counter_loops_3;

for hid in 1..3 loop

for oid in 1..3 loop

dbms_output.put_line('hid is '||hid||
" and oid is "||oid);

old_id(oid);

END loop inner_loop;

END loop outer_loop;

END;

OUTPUT :-

hid is : 1 and oid is : 1

hid is : 1 and oid is : 2

hid is : 1 and oid is : 3

hid is : 2 and oid is : 1

hid is : 2 and oid is : 2

hid is : 2 and oid is : 3

hid is : 3 and oid is : 1

hid is : 3 and oid is : 2

hid is : 3 and oid is : 3

4. PROCEDURE EXAMPLE

```
CREATE OR REPLACE PROCEDURE
    booking_status(c-Pd IN number)
IS
BEGIN
    IF c-Pd > 200 THEN
        dbms_output.put_line('no booking available');
    ELSE
        dbms_output.put_line('Booking open');
    END IF;
END;
BEGIN
    booking_status(150);
    booking_status(250);
END;
OUTPUT;
OUTPUT;
```

Booking open
No Booking available.

PL/SQL procedure for loops:

Example:- Using while loop with cursor prime.

check using while loop,

```
CREATE OR REPLACE PROCEDURE
    Print_prime_customers();
CURSOR cust-CUR IS
    SELECT customer_id FROM customers;
    v_id NUMBER;
    v_is_prime BOOLEAN;
    v_i NUMBER;
```

BEGIN

OPEN 'CUST.CUR';

LOOP

FETCH CUST-CUR INTO V-ID;

EXIT WHEN CUST-CUR.. NOT FOUND;

IF V-ID > THEN

V-IS-PRIME := FALSE;

ELSE

V-IS-PRIME := TRUE;

END IF;

WHILE V-ID = TRUE OR (SART(V-ID)) LOOP

IF MOD(V-ID, V-P) = 0 THEN

V-IS-PRIME := FALSE;

EXPT +;

END IF;

V-P := V-P+1;

END LOOP;

END IF;

IF V-IS-PRIME THEN

DBMS-OUTPUT.PUT LINE('PRIME');

CUSTOM ID;

(V-ID);

END IF

END LOOP

CLOSE 'CUST CUR';

END

The procedure checks all customer id's in the table and prints the prime ones using while loop.

Example 2:- Using for loop for first n prime numbers.

CREATE OR REPLACE PROCEDURE
Print - First - n - Prime (n numbers);

V-Num : number := 2;
V-Count : number := 0;
V-Is-Prime : boolean;
BEGIN;

WHILE :
 V-Count < n LOOP;
 V-Is-Prime := TRUE;
 FOR i IN 2..TRUNC(SQRT(V-Num))+1..
 IF i MOD (V-Num) = 0 THEN;
 V-Is-Prime := FALSE;
 EXIT;
 END IF;
 END LOOP;
 IF V-Is-Prime THEN;
 DBMS_OUTPUT.PUT_LINE('Prime:');
 V-Count := V-Count + 1; (i+num);
 END IF;
 V-Num := V-Num + 1;
 END LOOP;
END;

The PROCEDURE Print the first n prime numbers using for loop.

BEGIN
 print-first-n-prime(10);
END;

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TOTAL (20)	15
SIG : WITH DATE	22/09/10

Results:- Thus, the procedure function and library procedures using DBISQL Procedures functions & LOB DIS are executed successfully.