~~Task 7 Procedure~~ function and loops : program

22/9/25 Using P2lsql procedures, functions & loops

Aim:

To implement PL/SQL produres functions and loops on number theory and busines scenarios.

1) Simple PL/SQL program (static input)

```
DECLARE
    Message VARCHAR2(20) := 'Booking closed';
BEGIN:
    dbms_output.line(message);
END.
```

output:

Booking closed

2) conditional statement (Dynamic input);

```
DECLARE.
    mid Number(3):=100;
BEGIN:
    IF Child =101 THEN.
dbms_output.put_line('value of hid 10');
ELSIF (Lid =30) THEN
dbms_output put_line(value of hid is 30');
ELSE
```

ELSE

dbms_output.put_line ("Exact value of hid is (hid));

END;

Output:

None of the value is matching
Exact value of hid is = 100

3) Nested loops Example:

```
DECLARE
    hid NUMBER (1);
    Did NUMBER (1);
BEGIN
    << outer loop >>
    for hid IN 1..3 loop
        << inner - loop >>
    dbms - output .out line ("hid is: || hid
                                a-dis: | bud
    END Loop inner-loop;
    END Loop outer-loop;
END;
```

output;

```
hid is: 1 and Did is: 1
hid is: 1 and Did is: 2
hid is: 1 and Did is: 3
hid is: 2 and Did is: 1
hid is: 2 and Did is: 2
hid is: 3 and Did is: 1
hid is: 3 and Did is: 2
```

dbms - output . put_line (:No booking available:)

ELSE

dbms - output put line ("Booking open;

END if;

END;

Execution:

BEGIN:

Booking - status (150);

Booking - status (250);

END;

output:

Booking open

No Booking Available

PL/SQL procedure .for loop

CREATE OR REPLACE PROCEDURE Print-prim - tomes

CURSOR Cost -Cor is

SELECT customer-id from customers;

V - id - Number;

V- is - prime BOOLEAN;

V - i Number;

BEGIN

open cost - cor;

Loop

FECTH Cost . or INTO vid;

If vid < 2 THEN

V - prime := FALSE;

```
ELSE
    V- is- prime = TRUE;
    V = 1; =2;
    WHILE  V- K = TRUE (SOR)(Vid) LOOP

If MOD (V-id , V-1) =0 THEN
    V-1 , prime ; =FALSE;
    EXIT;
    END If;
  V-1 = r-1+1;
  END LOOP;
  END IF;
If V-IS- prime then
  END If;
  END LOOP;
  CLOSE cost -cor;
END;
```

. The procedure checks all customers ID: in the table and print the primes ones using * WHILELOOP

EXAMPLE 2: Using for loop for first

```
CREATE TOR REPLACE PROCEDURE print-firs
                              -n-primes
                              (n-number)
    V- num  NUMBER = 2;
    V- count  NUMBER = 20;
    V- is- prime  BOOLEAN;
```

```
If v_is_prime THEN
  DBMS_output_PUT_LINE ("Prime : '|| vnum
    v_count := v_count + 1;
  END If;
    v_num; v_num+1;
  END LOOP;
  END;
```

this procedure prints the first n prime number using a for loop

```
BEGIN
  Print_first_n_primes(10);
END;
```

VEL TECH - CSE	
EX NO.	7
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	3
RECORD (5)	2
TOTAL (20)	18
SIGN WITH DATE	22/9/25

Result:

Thus, the procedure function & loops program using PL/SQL procedure, function & loop are executed successfully.