Date 25

Task 7

Procedure function and loops : Program using PL/SQL procedure, functions & Loops

Aim:- To implement PL/SQL procedures, functions and Loops on number theory and business Scenarios

Simple PL/SQL program (static input)

```
DECLARE
    message [ ARCHER 2(R0)] := Booking
                               closed:
BEGIN
    dbms-Output.Put-Line (message);
END;
```

Output

Booking closed

2-Condition Statement (Dynamic, input)

```
DECLARE
    hid Number(3) := 100;
BEGIN
    If (hid=10) Then
    dbms(hid=10) Then line (value of hid is 10);
    dbms
    ELSIF (hid=30) THEN
    dbms-output.put-line ('value of hid is 30');
    ELSIF (hid=30) THEN
    dbms-output.put-line ('value of
                    hid is 30);
    ELSE
    dbms-Output.put-line ('None of the
                    values, matching).
END;
```

Output

None of the value is matching
Enact value of hid in: 190

3. Nested loops Example

```
DECLARE
        hid number(1);
        Oid NUMBER(1);
BEGIN
    << OUTER-loop >>
    for hid Int 3 loop
        << inner-loops >>
      for oid IN 1-3 loop
      dbms.output.put.line('hid is=1
                    hid || and adis ||out)
    END loopinner - 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

CRE

```
CREATE OR REPLACE PROCEDURE looking-stale
                          (c-id IN NUMber)
IS
BEGIN
   If (c-id > 200 THEN)
  dbms- output - put - Line (" Booking open");
   END IF;
 END;
```

Output:

Booking open
NO Booking avaiable
PL / SQL procedure for LOOPS

Example 1 :- using WHILE LOOP WITH CURSOR
prince check using while LOOP

```
CREATE OR REPLACE PROCEDURE Print-prime-
      Customers
    ( CURSOR cost - cur is
         SELECT customer - i'd from Customers;
     v- id NUMBER;
     v- is - prime BOOLEAN;
     v- i NUMBER
  BEGIN
     OPEN COST - CN;
     LOOP
     EFFECT Cost - CUR INTO v-d;
     EXIT THEN COST- CUR %. NOT FOUND;
     If v-id < 2 THEN
     v - is - prime = FALSE;
```

```
If v_id < 2 THEN
v_is_prime = FALSE;
ELSE
v_is_prime : TRUE;
v_i = 2;
WHILE v_i <= TRUNC( SQRT(v_id) ) LOOP
        If MOD(v_id, v_i) = 0 THEN
        v_is_prime = false;
        EXIT;
        END If;
    v_i = v_i + 1;
    END LOOP;
    END IF;
    If v_is prime THEN
    DBMS_OUTPUT_PUT_LINE ('PRIME customer
                ID = ' || v_id);
    END IF;
    END LOOP;
    CLOSE cust_cur;
END;
```

The procedure checks all customer IDs in the table and prints the prime and using while loop

Result: Thus, the procedure function and loops program using PL/SQL procedes, functions of loop are Executed Sucessfully.