

TASK 7: PLI SQL Procedure Function and logic

Aims to implement PL/SQL procedure, Functions and loops.

```

sample PL/SQL Program (Static input):
DECLARE
    message VARCHAR2(20) := 'Booking closed'
BEGIN
    dbms_output.put_line(message);
END;

```

OLFPY:

Booking closed  
conditional statement (dynamic input)

DECLARE  
Mid. NUMBER (3): = 100

# BEGIN

IF  $\text{child} = 10$  THEN

~~dlms\_output.put\_line~~ (value & hid is 10).

ELSE IF (hid = 20) THEN

dBm<sub>s</sub> output. Put - line (wave & hid 1520)

ELSE IF (wid = 30) THEN

doing\_output.put\_line('value of hid is 70');

ELSE

doing - out put at line (name of the value is watching).

END IF

done - output, Act - line 'Exact value of  
hid is: 1/hid' -

END:



output:

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

3. Nested Loops Example:

DECLARE

hid NUMBER(1);

oid NUMBER(1);

BEGIN

<Outer-loop>

FOR oid IN 1...3 LOOP

dbms\_output.put\_line('hid is: '||hid||

and oid is: '||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\_store  
ck\_id IN NUMBER)

IS  
BEGIN

IF (-ck\_id) < 200 THEN

dbms\_output.put\_line('no booking available');



```

ELSE
    dbms_output.put_line('Booking open');
END;

```

Execution:

```

BEGIN
    booking_status(150);
    booking_status(250);
END;

```

Output:

Booking open  
no booking available

PL/SQL Procedure for loop

Example 1: using WHILE loop with cursor  
Prime check using WHILE loop for  
patient IDs

```

DECLARE
    CURSOR pat_cur IS
        SELECT Patient_id FROM Patient;
    p_id Patient.Patient_id%TYPE;
    i NUMBER;
    flag NUMBER;
BEGIN
    OPEN pat_cur;
    FETCH pat_cur INTO p_id;
    WHILE pat_cur%FOUND LOOP
        flag := 0;
        FOR i IN 2...p_id/2 LOOP
            IF MOD(p_id, i) = 0 THEN
                flag := 1;
            END IF;
        END LOOP;
        IF flag = 0 THEN
            -- Prime
        ELSE
            -- Not Prime
        END IF;
        FETCH pat_cur INTO p_id;
    END LOOP;
    CLOSE pat_cur;
END;

```



```
END IF;
END LOOP;
```

EXAMPLE 2: using FOR LOOP FOR FINDING PRIME NUMBERS

```
DECLARE
```

```
  n number := 10;
  count NUMBER := 0;
  i NUMBER := 2;
  j NUMBER;
  flag NUMBER;
```

```
BEGIN
```

```
  WHILE COUNT < n LOOP
    flag := 0;
```

```
    FOR j <= n/2 .. i/2 LOOP
```

```
      IF MOD(i, j) = 0 THEN
        flag := 1;
```

```
      EXIT
```

```
    END IF;
```

```
  END LOOP;
```

```
  IF flag = 0 THEN
```

```
    dbms_output.put_line('Prime Number: ' || i);
```

```
    COUNT := COUNT + 1;
```

```
  END IF;
```

```
  i := i + 1;
```

```
END LOOP;
```

```
END;
```

22/9/25

Results

Thus the PL SQL functions

and loops executed successfully.

VEL TECH - CSE	
EX NO.	7
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	—
TOTAL (20)	15
DATE	