

TASK-7

PROCEDURE FUNCTION AND LOOPS : PROGRAM USING PL/SQL PROCEDURES FUNCT- IONS & LOOPS.

Aim: To Implement PL/SQL Procedures
functions & loops on number theory and
Business Scenario.

1. SIMPLE PL/SQL PROGRAM

```
DECLARE  
  message VARCHAR2(20) :=  
    'Booking closed';
```

```
BEGIN
```

```
  dbms_output.put_line(message);
```

```
END;
```

output:

Booking closed

2. conditional statement

```
DECLARE
```

```
  bid number(3) := 100;
```

```
BEGIN
```

```
  IF (bid = 10) THEN
```

```
    dbms_output.put_line('value of bid is  
                          10');
```

```
  ELSE IF (bid = 20) THEN
```

```
    dbms_output.put_line('value of  
                          bid is 20');
```

```
  ELSE
```

```
    dbms_output.put_line('None of the  
                          value matching');
```

END IF;

dbms_output.put_line('exact value of
wid is (hid)');

END;

output:

None of the value is matching

exact value of wid in: 100

3. NESTED Loops EXAMPLES

DECLARE

hid number(1);

oid number(1);

BEGIN

counter = 100;

for hid IN 1..100

for oid IN 1..100

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

understand target cost
pain points, and pre

B. Defensible

4. PROCEDURE EXAMPLE

CREATE OR REPLACE PROCEDURE
booking - status (c-id IN NUMBER)

IS

BEGIN:

IF c-id > 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:

Booking open

No Booking available

SQL Procedure for loops:

Example: Using while loop with cursor
prime check using while loop.

CREATE OR REPLACE PROCEDURE

print - prime - customers IS

CURSOR cust - CUR IS

SELECT customer - id FROM customers

V-id NUMBER;

V-is - prime BOOLEAN;

V-i NUMBER;

understand target custo
pain points and pref

```

BEGIN
  open cust-curr;
  loop
    FETCH cust-curr INTO v-id;
    EXIT THEN cust-curr = 0, NOT FOUND;
    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;
          v-i := v-i + v-i;
        END LOOP;
      END IF;
      IF v-is-prime THEN
        dbms_output.put_line(
          'prime customer ' || v-id);
      END IF;
    END LOOP;
  close cust-curr;
END

```

The procedure checks all customers ID's
 the table and prints the prime
 ones using while loop.

understand target customer
 pain points and needs

Example 2: Using for loop for first n prime
number

CREATE OR REPLACE PROCEDURE
print_Art_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)) LOOP

IF MOD(v-num, i) = 0 THEN

v-is-prime := FALSE;

EXIT;

END IF;

END LOOP;

IF v-is-prime THEN

dbms_output.put_line(

prime || v-
num);

END IF;

v-num := v-num + 1;

END LOOP;

END;

The procedure print the first n prime
Numbers using for loop

BEGIN

print_Art_n_prime(10);

END

understand target

VELTECH	
TIME	7
PERFORMANCE (5)	6
RESULT AND ANALYSIS (5)	8
FINAL VOICE (5)	8
SCORE (5)	1
TOTAL (20)	16
DATE WITH DATE	

RESULT: thus the procedure function and loops program using pascal procedures functions & loops are executed successfully