

23-4-25

## TASK-I : PL/SQL Procedure, Loops, Functions

Aim: To implement PL/SQL Procedure, Functions and loops on NO theory and

### Procedure:

PL/SQL is a combination of SQL along with the procedure features of programming language. It was developed by Corporation in the early 90's to enhance the capability of SQL.

#### Sections : Descriptions.

##### 1. Declaration:

This section starts with the keyword Declare. It is an optional section and defines all variables.

##### 2. Executable commands:

This section is enclosed between the keywords BEGIN and END. and it is a mandatory section. It consists of executable PL/SQL statements or program.

##### 3. Exception handling

The section starts with the keyword exception. simple program to print a sentence:

### Syntax

Declare

L declaration section >

Begin

L executable command (11)

exception

Execution handling?

END;

Program

Declare:

message variable2(20):='booking closed';

BEGIN

doms-outPut, Put-line(message);

END;

static input;

for1 > set secondockPut on

for1 > declare

2 x number(5);

3 y number(5);

4 z number(6);

5 begin

6  $x := 10;$

7  $y := 12;$

8  $z := x + y;$

9 dions-outPut Put-line 'sum is

11 z >;

10 end;

11

sum is 22

PL/SQL Procedure successfully completed

dynamic input:

get serviceOutput on;

declare

+ number (S);

y number (S)

z number (y);

Begin

x := 10;

y := 12;

z number x+y;

DBMS - subPub-line ('sum is 'nB);

End;

/

SQL > declare

2 var1 integers;

3 var2 integers;

4 var3 integers;

5 begin

6 var1 := { var1;

7 var2 := { var2;

8 var3 := var1 + var2;

9,10 DBMS - subPub-line var3%;

End;

11 /

Enter value for var1: 20

old 6 : var1 = \$var1;

new 6 : var1 := 20;

Enter value for var2: 30

old 7 : var2 = \$var2;

new 7 : var2 = 30;

PL/SQL Procedure successfully completed

declare

hid number(3); = 10;

begin

IF (hid = 10) Then

dbms\_output.put\_line('Value of hid is 10');

ELSE IF (hid = 20) Then

dbms\_output.put\_line('Value of

hid = 20) Then

dbms\_output.put\_line('Value of hid to 30'),

END IF;

dbms\_output.put\_line('Exact value of hid is: 11 hid')

END;

'  
none of values matching

extract value of hid is; 100

PL/SQL Procedure successfully completed.

sample program for only function:

SQL > create or replace function isInformation

(h\_id in number; c\_name is varchar2)

return varchar2;

IS

Begin

if c\_id > 200 then

return ('no booking available');

else

return ('Booking Open');

end if;

end;

Function Created

SQL > clear

2 msg varchar2(200);

3 begin

4 msg := information(206, 'Xam');

5 dbms\_output.put\_line (msg);

6 End;

7 /

No Vacant Available

PL/SQL procedure successfully completed

VEL TECH	
EX No.	
PERFORMANCE (5)	
RESULT AND ANALYSIS	
VIVA VOCE (3)	
RECORD (4)	
TOTAL (15)	
SIGN WITH DATE	

Result: Thus, Implementation of PL SQL Procedure  
 For loops and function been successfully completed

# PL/SQL Procedure for Loops

Aim: To implement the PL/SQL Programs using loops for printing prime numbers customer IDs and for demonstrating

Procedure:

Start a PL/SQL Procedure

use a cursor to select customer from a table for each in, check whether it is a prime no using a loop

print the result using DBMS.output.put-line

the block

example 1: using while loop with cursor

prime check using while loop

create or replace procedure point prime - customers ID

customers - cust - s.

select customers - id from customers;

v - id numbers;

v - is - prime Boolean;

v - i numbers;

Begin

open cust - cur;

loop

fetch cust - cur into v - id;

exit when cust - cur%NOT FOUND;

if v - id > 2 then

v - is - prime := FALSE;

else

IF MOD (v-id, v-i) = 0 then

EXIT;

END IF;

v-i := v-i + 1;

END LOOP;

END IF;

IF v-is-prime then

OBMS-output.PUT-STRING ("Prime customer IP") in v-id);

END IF;

END LOOP;

CLOSE cust-cus;

END;

numbers

start or Replace procedure print-n-primes (n number)

n-num numbers i=2;

n-current number i=0;

v-is-prime Boolean;

Begin:

v-is-prime := TRUE;

FOR i IN 2..RNUMCSORT

v-is-prime := FALSE;

END i;

END IF;

END LOOP;

IF v-is-prime then

OBMS-output.PUT-STRING (Prime

END LOOP;

END;

VEL TECH - CSE	2
(EX-NUM) Loop	2
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	10
SIGN WITH DATE	20/05/2023

VEL TECH	
(EX-NUM)	
PERFORMANCE	
RESULT AND ANALYSIS	
VIVA VOCE (3)	
RECORD (4)	
TOTAL (15)	
SIGN WITH DATE	

equation: Thus implementation of parallel procedure  
of loops has been executed successfully.