

TASK NO: 7

date: 23/09/25

PL/SQL procedure for loops, functions;

Aim: to implement PL/SQL procedure, functions and loops on number theory and business procedure.

PL/SQL is a combination of SQL along with the procedural features programming languages. It was developed by Oracle Corporation in the early 90's to enhance the capabilities of SQL.

Section & Description

1. Declaration:

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

2. Executable Command:

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.

Syntax:-

DECLARE

<declaration section>

BEGIN

<Executable Command(s)>

exception

<exception handling>

END;

Program:

DECLARE

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

BEGIN

dbms_output.put_line (message);

END;

Static Input;

SQL> set server output on

SQL> declare

2 x number(5);

3 y number(5);

4 z number(9);

5 begin

6 x:=10;

7 y:=12;

8 z:=x+y;

9 dbms_output.put_line ('sum is' || z);

10 end;

11 /

Sum is 22

PL/SQL procedure successfully completed.

set server output on;

declare

x number(5);

y number(5);

z number(9);

begin

x:=10;

y:=12;

z:=x+y;

dbms_output.put_line ('sum is' || z);

end;

SQL > declare

2. Var 1 Integer;

3 Var 2 Integer;

4 Var 3 Integer;

5 begin

6 Var 1 := &Var 1;

7 Var 2 := &Var 2;

8 Var 3 := Var 1 + Var 2;

9 dbms_output.put_line ('Var 3 >');

10 end;

11 /.

Enter value for Var 1: 20

Old 6: Var 1 := &Var 1;

new 6: Var 1 := 20;

Enter value for Var 2: 30

Old 7: Var 2 := &Var 2;

new 7: Var 2 := 30;

50

PL/SQL Procedure Successfully Completed
DECLARE

hid number(3) := 100;

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 is 20');

else if (hid = 30) then

dbms_output.put_line ('value of hid is 30');

extract value of bid P8:100

PL/SQL procedure successfully completed:

Sample program for only function:

SQL> create or replace function P8 information

(b-id number, c-name in Varchar2)

return Varchar2

is

begin

(if b-id > 200 then

return ('No Booking available')

else

return ('booking open');

end if;

end;

function created

SQL> declare

2. msg Varchar2(200);

3 begin

4 msg := P8 information(2006, 'aam');

5 dbms_output.put_line(msg);

6 end;

7/

No Vehicle of variable

PL/SQL procedure successfully

VEL TECH	
EX NO,	
PERFORMANCE (5)	2
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	8
RECORD (2)	6
TOTAL (20)	16
SIGN WITH DATE	

Result:

Thus, implementation of PL/SQL for loops and functions has been successfully completed.