

22/09/25

Task No :- 7

PL/SQL Procedures for loops, functions :-

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

Procedure :-

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

3. Exception Handling :-

This section starts with the keyword exception. sample program to print a sentence.

Syntax :-

```
DECLARE  
  <declaration section>  
BEGIN  
  <Executable command(s)>  
  Exception  
  <execution handling>  
END;
```

Program :-

```
DECLARE  
  message varchar(20) := 'Booking closer'
```

```
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 dynamic
Input;
set server output on;
declare
x number(5);
y number(5);
z number(9);
begin
x := 10;
y := 12;
z := x + y;
dbms_output_line ('sum is ' || z);
end;

SQL> declare
1. var1 integer;
2. var2 integer;
3. var3 integer;
4. begin

```
6. var1 := 8 var1;  
7. var2 := 8 var2;  
8. var3 := var1 + var2;  
9. dbms_output.put_line(var3);  
10. end;  
11. /
```

Enter value for var1 : 20
old 6: var1 = 8 var1;
new 6: var1 = 20;
Enter value for var2 : 30
old 7: var2 = 8 var2;
new 7: var2 = 30;

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');

Else

dbms_output.put_line('none of value is matching');

END IF;

dbms_output.put_line('Exact value of hid is: ' || hid);

END;

none of value is matching.

Extract value of hid is: 100

PL/SQL procedure successfully completed.

sample program for only function :-

SQL> create or replace function is_information

Ch - id in number; c-name in varchar 2
Return varchar 2.

18.
Begin.
If c-id > 200 then
Return ('No Booking available').
else
Return ('Booking open').
end if;
end;

Function created.

SQL > declare

2. msg ~~char~~ varchar <200>;
3 begin
4 msg := information 2 <2006; ram'>;
5 - dbms_output.Put_line <msg>;
6 End;
7

No vehicle available

PL/SQL produce successfully completed.

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

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Result:-

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