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Task 7 - PLISAL, Rocchers, Loops

Atme

To implement PL/SQL Procedures, functions and Loops

## Procedure:

perfectives of programming languages. It was developed by bracke Corporation in the early 90's to enhance the capabilities of Sal, plisal is one of three key programming languages embedded in the Oracle detabase, programming languages embedded in the Oracle detabase, along with sal itself and Java

5.No section description

This rection starts with the Keyword DELLARE. It
This rection starts with the Keyword DELLARE. It
is an optional section and defines all variables,
cursors subprograms and other elements to be used in the
program.

This section is endosed between the keywords

BEND and END and it is a mandatory section. It

consist of the executable PLISQL statements of the

program. It should have at least one executable line of

rede, which way be just a NULL command to indicate

that nothers should be executed

This section starts with the Keyword that Exception. This optional antains exception (5) that handle errors to the averan-

```
Syntax:
DELLARE
     Edeclarations sections
 BEGIN
     2 executable command (3)>
 EXCEPTION
      Lexception handling >
  END;
 Simple program to print a message:
 Program:
      message varcharz (20):= 'hooking closed';
  DELLARE
      about satet. put line (message);
  BEGIN
  END 3
Static input:
SQL> set serveroutput on
sal > delare,
   2 × nymer(5);
  3 /g number (5);
 4 z number (9);
  5 begin
  6 I:=10;
  7 4:=125
      dbms_output.put_line L'sun 15' 11 2);
   8 years
   to end;
PLISOL procedure successfully completed
5 um 15 22
```

```
Dynamic Input:
set serreroutpet on:
declare
      a number (5);
      y number (5);
      Z number (1);
 begin
      1:= 10;
       y:12;
      マニコメナン
      about out put lise (sun 15 1/2);
  ends
 5GL > declare
   2 vor integer;
   3 varz (nteger)
   4 vars integer;
   s begin
   E VATI - EVENTS
   7 varz = Lvarz;
   8 VETS = VETTVETZ;
   a dbms_atput-put-line (v=13);
   10 end;
    Enter value for vari: 20
    old 6 : vari = dvar 1;
    nex 6: Vay 1:= 20;
    Enter volve for verz: 30
    old 7: varz: = bvarz;
    NEW 7: VOTZ: = 30;
    PLISAL procedure successfully completed.
   DEVLARE
        hid number(3) == 100;
   BELLIV
        IF (hid = 10) THEN
       dien's adopt. put line ("Value of hid 1510");
       ELSE IF Cha-201 THEN
                             A se ( replied of bild is so );
```

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ELSIF (ALL- ST) THEN
         offers autotopatalize ("Value of hid is 30"):
        dementput put tree (" Nove of the volues is mothing");
         above atput put line ("Fract value of hid is :"// did);
   ENDIF
ENDS
None of the value to metaling
East values of kid 1100
more preduce successfully empleted
DELLARE
   Hil n-ber(1);
   old number (1);
ZOIN
               dons output put line ("hid is ill hid " and oid is: " hoid);
    fol hid IN 1.3 LOOP
         FOR old IN 1.. > LOSP
          END loop Merloop;
  END losp auterlosp;
 END :
 till 19:1 and old 15:1
 114 15:1 and old 15:2
 12 351 pl of 1613
 med "6: of and old is: 1
  ed 15/2 and oil 15:2
  hill is: 2 and old is: 3
  tid 1513 and old 16:1
  hill 1913 and old 1612
  hid is 13 and odd is 13
  Petral produce successfully impleted
   my program for only produce:
   tif i mute or replace prudere is information
      2 still in number . c. none in vorbay2?
            contest, put like ( ZO : " 11 c_ Td);
```

```
Tend :
  81
Prochare executed
sal = ever (s information 2101, 'raam');
PL 1500 procedure showshilly completed
tal > set serveroutput on;
SALTERE ESINFORMATION (101, raami);
IOno!
None : Year
PLISAL procedure successfully completed
sample program for only function:
SAL o create or replace function coinformation
(hid in number, a name in various 2)
Return varhar 2
IS
Begin
If Lid = 200 tren
Return ('no boxing available');
Else
Return Charling open');
End if ;
End;
function created
SQLO declare
 2 ming varha/2 < 2007;
  3 begin
  4 mesq /= (5/nformation 26/02; Yuam' >;
   5 db/hs_autput, put 19ne cmesg?;
   & that;
Variable available
```

```
Sals dedare
  2 mess varhar 2 (2007;
  3 begin
  4 mesq == coinformation 2 2206, roam's;
  5 dbms-output.put-line cmesgo:
   6 end;
No vehile available
PLISAL procedure successfully completed.
Example 1: Using While Loop with Cursor
    Prime check using While Loop
Create or replace produce print-prime-customers is
   cursor cust -ur is
         Select customer_id from wistomers;
    Vid Number;
     V-isprine Bolean;
     V-: Number;
Befin
   Open wst-ws;
    Logo
        fetch cust-ur into vid;
       Brit when cust-wr %NOT FOUND;
        If V-id c 2 Then
              Vis-prime:= false;
               V=15. prime := True;
               while v= C= Trunc(Strt(Vid)) Loop
               V-1=2;
          the implementation of PLISQL
Pared my and
```

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If MOD (v-id, v-i) = 0 Then
                V-15-prime : = falses
                 Exit;
           End if ;
           V-1:= V-1 +13
     End Loops
Ed Ifs
If V-15-prime Then
      OBMS_OUTPUT. PUT_LINE ("PHME Customer IO:" 11 V-K);
End if s
End Loop;
Mase custier;
End;
This proudure checks all customer ID's in the table and
prints the prime ones using a WHILE LOOP
Example 2: Using for Loop for first N Prime Numbers
Create or replace Procedure print-first_n_prines (n NUMBER) is
   V-pla NUMBER : = 2;
    V-west NUMBER := 0;
   V-15 pane Boolean;
Basin
   while vount in Loop
        Vis-prime : = True;
       for in 2. Tranc (Sgrt (v-num)) Loop
            If mod (v-nun, i) = 0 Then
                  V-15-prime : = false ;
                  Exit;
             End it i
     End Loop;
     If 15-prime Then
          About - output . put _ line Liptime: " | ly-num);
```

V-cant . - 4-1045+13

End 1+3

V-num = = V-num +1;

End Loops

End;

This proudure prints the first N prime numbers using a for Losp

for evample:

BENIN print-first-nprimes (10);

END;

Pro
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PEGG
CRFORMANCE 17
PERFORMANCE (8)  RESULT AND ANALYS'S (5)  RECOUNTS
LVIVA VOCANALYSIS IN S
VIVA VOCE (5)  RECORD (5)
I VIAI In-
SIGN WITH DATE
THIH DATE
Jam
20111

Process and Loop, was executed successfully.