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24.22/9/25 PL (SAL, Functions, Loops
   Aim: To Amplement PL/SQL procedures, functions
    + Loops on number theory and busties
     scenouio
   To purint a soutence:
            Cyntan: Deceore
                       Edeclure sessions
                      Beggn
                           Leneutable commands
                     Eneumon
                          (enception handling)
                     Berd;
   Pewgeram:
            - Declore
               message vonction 2(20): slot clusted;
               oloms-output. put-live (message)
             End:
      output: slot closed
  Dynamic Duput: set server output on
                     declure
                         x umber (5);
                         y number (5);
                         z number (9);
                    begin
                        N:= 10;
                        9:= 12;
                         olbins-output. putline (
     multiplication of n and y'llz);
              , end;
```

the to entrement to [20] moreovers fination output: multiplication of n and y 120. with the same thank and soot t ~ tugal survey to 2 = tugal surveys

```
Declore
    Wod number (3):= 100;
Begin
    If (Lad = 10) Then
          alons_autput. put_lie (Value of led & 10').
   Els If (wid = 50) then
         doms-output put-like (value of hid is 50).
  Els If (Mid = 110) then
         oloms-output. pud-like (Folse).
  Else doms - output. put level home's:
     END IF.
    olbins content. put-line (Enact Volue is: 4 hid),
      END.
Output: -
         Enact Valed is 100
         PL/SOL perocedure successfully computed
roobs;
      Declose
            had number (1);
            Old winber (1);
      Degin
            exouter-loop >>
           FOR WOL IN 1.. 2 LOOP
                    ( Enney- Loops)
                 FOR old IN 1.2 LOOP
                    doms_output. put line (hid is: 1)
   wholl and old is: '11 old):
                END Loop inner-loop;
         END loop outer_loop;
    TAID!
```

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wints multiplication of n onety Do
Coist low so amout 18:0 ( volue of bild to 10)
                       FLS If (MOL = 110) HELLIN
                                  END:
                                  and identition
                     Front vous (2100
                                  Dellaso
          FAID LOOP levies toon
```

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wind is: I and oid is: I
  wid is : 2 and oid is: 2
 wid is: 2 and oid is: 1
 mid is: 2 and old is: 2
  PL/SQL providure rucesfully completed.
Function:
   - SQL) beate an preplace function stubbook
(St-Pol en number, st-name en vonchor2,
  Slot, home In Vorthon 2)
  Return VonClish 2
 2I
  Begin
   If st-Pd > 200 teen
   Else Return (No slot available).
       Return ('Slot open');
   End It'
   End;
     Function Chested !-
    Soul dellare
        meso vordent 2 (200);
         begen
        mesq: = 5 hi/20 k (206, ' 910man');
        doms _output. put. line (mesg):
         end!
  Output: No slot avallable
           PL/SAL Publedure successfully
                   completed.
```

```
of 610 Jans D: 21 St.
                                                  using while loop with curson
                                                         odd dreek using while loop (Positive odds)
                                             sort> mate sa replace perdedure puint-odd nos Is
                                                   curson rum- ons is
                                                         select stended from students:
                                                      V- 8d NUMBER;
                                                     V- is Lodd BOOLEAN;
COUNTRY OF PROPERTY PROPERTY STATES
                                                     11- I NUMBER;
                                                  Regin
                                                      open num-cus;
                                                      LOOP
                                                        FETCH num-lus quito ti kid.
                                                        EXIT When num_ ULS -1. NOT FOUND;
                                                        IF V-id < other
                                                              V_ig_odd = Folse;
                                                            V-is_odd := Tome;
                                                            V-1:=2:
                                                           while v-iz= TRUNC(SART(V-id)) LOP
                                                               IF MOD (V-id, V-i)=0 Then
                                                                    V-is-oda : Folse;
                                                                     Exit .
                                                            END LOOP;
                                                          ENDIF;
                                                        If V-is-odd then
                                                            alongs-output put-line ( odal student id!
                                                                                        11 v-id):
                                                          ENDI #
                                                      END LOOP!
                                                     CLOSE hum lus !
                                              END:
```

```
odd duce wing wille loop Bellive
will someth on replace princebine print odding to
      calculate more thanks tooles
                      V- EN NOWBER:
                       W I DUMBER.
         FETCH MUM - Une This was period .
    EXIT WHEN NUM . WE Y. NOT FOUND.
             (Sure 1 do 2) y 9217
with v- (cs Travels Ax) (v-id) lat
IF MOD (V-1d, V-1):0 "They
```

```
soul>
     create or neplace photoluse
pulut_n (n NUMBER) IS Knum NUMBER != 2)
V- count NUMBER := 0; V- is - Phine BOOLEAN;
Begin
  I while y- count (n loop
         V- is- pulle :- Tune
      for 9 in 2. - TRUNC (SAR+ ( V- MUM)) LOOP
            If MOD (V-mm, i)=0 THEN
                V_ is - Prime :- FALSE;
                 EXIT.
              END IF
              END LOOP;
     If V_ is prime Then
              DRING_ OUTPUT. POT_LINE
                  ('Parine: 11 V-num);
             V-count: - V-count+1
            END IF:
            V-mm:= V-mm +1;
                                    VEL TECH
      END LOOP;
                                EX NO.
                                PERFORMANCE (5)
   END:
                                RESULT AND ANALYS'S (5)
                                VIVA VOCE (5)
BEGIEN
                                RECORD (5)
                Puint_n(4); TOTAL (20)
SIGN WITH DATE
END .
                           output:
Result.
```

tems, the Purplementation of PL/SQL Function and Loops on the database has completed Successfully