Talk a PI 1501. procedure for Loops.

Aim! To Emplement . PI 1502 . procedure functions and loops on number theory and business frenchios.

Procedure:

Ph/1801 is combination of 101 along with the procedual features of programming languages. It was developed by ovaile Corporation in the early 90's to enhance the Capabilities of JOI-Ph/191 Trans of three bey programming languages embended in the indu oracle Database valong with 801 if self and Tana Section & Description

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Delacations

Date 1.23/1/25

1. This - section starts with the beyword

DECLOPE IT is an optional rection and

defines all variables (writers. subprograms,

and enother elements to be used in program

2. Executable Commands

The justion menulouel between locyclords Bealin and two and it is a mandolon fectorion. It consistro execute prison 3. Exception Handling This section Hacks with keyword Enception olis optional Scution. Contrains Exceptions (1) the benelle emors in program Simple program to print a senteme Syndan; DEHLARE 2 declaration Section > BEGIN. rexcutable Command (1)> EACEPTION. 1 enleption handling> GWD, Drogoan :-DECKARE. me 13age vaccher 2 (20): = 1 booking Cloreel. BEGIN.

END's

Shote Input. SOI > Set. Seeveralput on SOL > Loclare. 2x number (1); 34 number (5); 4 2 number (9); 2. Podlu 6 x == 10; g. 4: =15; 8-2: =x+5, 9. dbms Loutput put line (Jeans 1) 1: =3: 10. end; Sum 1122 PLISOL. procedure fucestally Completed. Dynamic Mpcut! for lever output on; delare. y number (1); 9 bumbec (D: -2 bumber (9); lægin!

A: =10',

2= X+4; doms '- output - line (1 cum is' 112); end! SOL > declare 2 vac 1 intégee; Enter value forvaille 3. Valz integel; old-6: val!:=lval; 4 VOUZ integer; new 6: vac! o begin. Enter value for 6 · vall : = dvall; old 7: valz=hvaz; →. Val 7:=8 val2; new 7: var 2:=30; 8 - vous: = val 1+val 2; 9 Jus = output pw line (vais), (o. end; 4/ PLISAL procedure Successfully completed DECTURE. hid number (3)= 3100; BEGIN. 18 (kid =10) Then. dons 2 patput-Put - line (value of

BLSE 11 (hid=20)9HED.

tudes 10%;

dbons -output pur - lovelvalue of hidis 20); Edde 1 F Chid = 30) THEN doms output put line (calue of hidiso'); ELSG Atoms - butput - put line ('worke of the values (marching): GND 14; dbons - output - put line l'Exact value of hid- 85:11 hid); END' None of the values is matching Exact value of hid. 15 :100. PL 1 SOL pro ceducer. Successfully Completed. DELLARE. Lid humber (1); vit d'number (1); BELIN.

POR Wid LP1 - 1.3 Loop

LL ource Coop >>

dbonc - output-Put-line I hid is: 11 hid !! and old is: "Hold); END loop inner - loop; END loop outer loop; GOD; lud is is and ord is:1. hid 15:1 and old 11:2 hid is: I and oid is: 3. hid is 2 audoid is: + hid 112 andoid is=2 hid is a and bidis:3 hid is 3 and oid is:1 hid is 3 and oid is:2. hid is 3 and oid is: 3

Pt 1 SOL proceduce fucientally Completed.

Pamples program toronly proceduce:

501 replace proceduce es in

-tornertion

-2 1(-id in number 1(-name in

Vouchaes)

1 begin t. dbrus -output put line 2/70: 1:; 2-lds; 6. dbow - output put [the Iname: 1 (- name; 7. End; procedure created. SQ1 Series Crinformation (101, 100m's; Ph 1001 procheduce Successfully completed. POL > set Serverautput on; SOX > one Cr Cin formation 2101; 'roam's; Name, raam Phlson procedure successfully tompleted fample programs for only function SOLT create on Replace, function conforman Lion . Chid in pumber, c-name in halchaez) Return vachaez.

Regin 24 - Cid > 200 Hun.

```
Kesun C'no booking available!);
  Else
  Return ('booking open');
  and if;
 End"
 function Created.
    SQL > declare
 & mesg valchar 222007;
  2 design
U. Mesg: = Clin formation 2/102, toans
   5 dbny-output -put -line 2: mes 9>;
   G. End;
vellire avaiable
 (D1 > delace
   2 mesg valethal 2/2007;
 Juesg = L/sintormation > 206, 'raam's;
  J dibny output-put line 1 mesquis
  6_ end;
 vo velluide renaitable
```

PI ISOL produce successfully Completed

1		
VEL TECH	EXP	
EX NO.	7	1
PERFORMANCE (5)	5,00	1
RESULT AND ANALYS'S (5)	5	1
VIVA VOCE (5)	15	
RECORD (5)		
TOTAL (20)	16	
	02/9/0	
	V J \ \\"	

Result! Thus, the implementation of 12/502 pw (educe territion sand loops an muteo theory and business-Icencies harbers executed fullerfully. Parls 9-1 phisor procedure for Coops ours, edgles Dimi. To white PHISOL programs using loops for printing Prime number Corroner Loops for printing Prime number Corroner in different scenarioy.

(bacolug!

1. Start a PISOL block or procedure 2. Use a Cultor lif required to fetch. Customer 100 from outable

3. Por each ID, Check whether it is a prime wunder using a loop.

u- like for loop (whice hoop to demootherd=

or. Print the result using DBny - Outip UT. por

6- that the block,

Examples 1 Using white Loop with cursor Prime their Uting white loop

CREDIE OR REPLACE - RROCE DURE

Print first in primes (novamber)

v-num Dumber: =2;

V-Count Dumber: =0! V-15-PAME BOOLEAN; BEGIN' WHILE V-went & nloop. V- IS -Prime: = TRUG; For JIN 2 -- FLOOR (SORT (V-numbig IR MOD (V-num 17)=0 THEN V- 13 - PHIME == FALSE €XIT; END IF; END HOOP', TR V-73- Prime THEN. DBMS - DOTPUT . PUT - LINE ('Prime: "11 V-nun, 3, V-Count := V-Count+1) END IF; ~~ hum = = ~ numf!; END LOOP;

END;

This procedure cheeles all customer 10's in the table and prents the prime ones using a WHILE LOOP. EXAMPLE : 2; Lerug for loop for first is Prime number CREATE OR REPLACE PROCEDURE PRU -first -n- Primes (number 12) V. Num. Namber: = 2: v - Count Wumber 1 =0; ~ - [1 - Prime Boolean: BEGIN. · whice v-Count 201200p V L 11 - Prime: STRUE; PORITO 2-TRUNE. (SORT (V-num)) 100p. I MOD (V-num,i) = OTHEN ~ = is -prime : = FALSE; EXSIT! GOD Loop;

If V-15- Prime . Hew

DEMS - bulpur put - line ('prime: '11 V-pum); N. Count 1= V- Count -th; END IE; V=num:=v-num+1; ENO LOOP'S END; This procedure prints the Line w prime rountees using for Loop. BECIN. pour -first -n-primer (10); ENO'S Thes procedure primes the first N prime pumbers. VEL TECH PERFORMANCE (5) RESULT AND ANALYS'S (5) VIVA VOCE (5) RECORD (5) Result: The 1. Implementation of PIC procedures dunctions and Loops on number theory has been fucusfully

executed.