Ex.No.: 11	PL SQL PROGRAMS
Date:	_

PROGRAMS

TO DISPLAY HELLO MESSAGE

```
SQL> set serveroutput on;

SQL> declare

2 a varchar2(20);

3 begin

4 a:='Hello';

5 dbms_output.put_line(a);

6 end;

7 /

Hello
```

PL/SQL procedure successfully completed.

TO INPUT A VALUE FROM THE USER AND DISPLAY IT

```
SQL> set serveroutput on;
SQL> declare
2 a varchar2(20);
3 begin
4 a:=&a;
5 dbms_output.put_line(a);
6 end;
7 /
Enter value for a: 5
old 4: a:=&a;
new 4: a:=5;
5
```

PL/SQL procedure successfully completed.

GREATEST OF TWO NUMBERS

```
SQL> set serveroutput on;
SQL> declare
2 a number(7);
```

PROGRAM 1

Write a PL/SQL block to calculate the incentive of an employee whose ID is 110.

```
V-employee-id employee employee-101 1, Type :=100;
                  employees, salary 1, Type;
 V_ salary
 V-incentive NUMBER
 V_incontive-pct CONSTANT NUMBER : = 0.10
BEGIN
   SELECT 8 along into V-8 along from employees
   where employee -id, v-employee-id;
  v-incentive : = v-salary < v-incentive - pct
 DBNS_OUTPUT PUT_LINE ("Incontive for empad" Il v_employee.id II
                          'is' Il v_Incentive.
  END:
```

PROGRAM 2

Write a PL/SQL block to show an invalid case-insensitive reference to a quoted and without quoted user-defined identifier.

```
Doctore v test voriable NUMBER := 100;
       sclect salary into v-salary from employees
BENIN
       uohere employee-id = v_employee-id
     v_incentive ! = v_salony & v_incentive - pct;
   DBMS - OUTPUT. PUTLINE 1+ Broom: "Il su Learn";
END ;
    DBMS OUTPUT, PUTLINE ('Value : 'II V_Test_VARIABLE') .
```

PROGRAM 3

Write a PL/SQL block to adjust the salary of the employee whose ID 122. Sample table: employees

```
Declare
        vemployee-id
                             employees, employee-1d % Type=:24,
        V_new salary
                          employees. Salony " TYPE;
        V- current sal
                         employees . salory v. TYPE >
         V-adi
                         NUMBER := 500)
BELIN
solect salony into v_currentsal from employees where
   employee_id = v_employee_id;
  v-new_sal := v- current_sal / v_adj,
 update employees set salary = v-newsalary where
 employ equid
            = V _employee_id >
COMMIT
  DBMS. OUTPUT. PUTLINE ("Salary updated!");
  FND >
PROGRAM 4
```

Write a PL/SQL block to create a procedure using the "IS [NOT] NULL Operator" and show AND operator returns TRUE if and only if both operands are TRUE.

```
employees employees. galary ", Type

V_gal employees. galary ", Type

V_dopt_id employees. depositment_ld ", Type;

BEGIN

select sal, alopt_id into V_sal_v. depia from employees where emp-id = p_emp-id

IP V_sal 18 NOT NULL AND V_depid 18 NOT NULL Then

Update employees set status = 1 Active! where emp-id = p_emp-id;
```

PROGRAM 5

Write a PL/SQL block to describe the usage of LIKE operator including wildcard characters and escape character.

```
Declasie

V_emp_name emp. name 7. Type.

8EGIN

POR TOC IN (Select name from emp where name like 'J-%!

ESCAPE N')

100P

DBMS_OUTPUT. PUTLINE ( Dec. name);

END LOOP;

END;
```

PROGRAM 6

Write a PL/SQL program to arrange the number of two variable in such a way that the small number will store in num_small variable and large number will store in num_large variable.

```
Declare

num 1 number: = 25;

huma number: = 10;

num_8mall number;

num_targe number;

Begin

Af num1 < num 2 then

num_8: = num1;

num_l: = num2;

Else

num_l: = num2

num_l: = num2

num_l: = num2

num_l: = num2
```

Write a PL/SQL procedure to calculate the incentive on a target achieved and display the message either the record updated or not.

額

```
END IF
update emp set inc = v_inc where emp_id
    SOC % ROW COSE, >0 Then
    DBMS_OUTPUT, BUTLINE ("No reward updated"):
 END IF >
 END :
```

PROGRAM 8

Write a PL/SQL procedure to calculate incentive achieved according to the specific sale limit.

```
create or replace procedure cal-inc (p_ 8 dant IN
number) 48 V_inc_num;
Bogin
          P-8al-ant > = 5000 then
        V- inc 1 = p- 8el- emt : 0.15 >
     Else
         Vinc : PScl_ant = 0.05 :
   END IT :
      DBNS_ OUTPUT. PUTLINE (p_Sel_ant ||V_inc);
```

Write a PL/SQL program to count number of employees in department 50 and check whether this department have any vacancies or not. There are 45 vacancies in this department. PROGRAM 9

```
DBNS - OUTPUT PUTLINE ( V. emp-count);
     V-emp count 2 V- valancies Then
TF
     DBMS . DUTPUT . PUTLINE ("So Vacancies available)
FISC
    DBMS - OUTPUT . PUTLINE ('NO Vacancies');
 END IF ;
 END :
```

9

Write a PL/SQL program to count number of employees in a specific department and check PROGRAM 10 whether this department have any vacancies or not. If any vacancies, how many vacancies are in that department.

```
Declare
  v. dept.jd number: = 50 %
  V-emp-count number '
   V- total- Dos number: = 1002
    V. VQC
               MUMBOY >
  BEUM
                   count (1) into v-emp-count from employees
          soloct
           dept - 10 = v dept - A
   where
       V- vacandes : - v - tolal POJ- v-cmp- count ;
      DBMS - OUT PUT, PUTLING ( V-emp - 600 nt);
         27 Y-vac > 0 then
        DONS- but put. Put LINE ( 1 V OC MICH A VAILED);
```

Write a PL/SQL program to display the employee IDs, names, job titles, hire dates, and salaries of all employees.

reclare Begin for rec in (select empaid, first name 11 'last name emp-hame fobitifle, Hiredate, salary from employees Toin fobs on employees - fob-ia = fobs · fob-ia) LUOP DBMS - DUTPUT, DUTLINE [YEC. emp_id | I rec. empnome all rec fob HHE). END LOOP ;

PROGRAM 12

Write a PL/SQL program to display the employee IDs, names, and department names of all employees.

```
portava
       for rec IN (select e-emp-id, e.f. name 11', 11
               emp_nome dept_name from employees &
e. l. name As
JOIN department of on endept_id = didept_id)
700 P
     DBMS. OUTPUT, DUTLINE CIEC. emp-id 11 rec. omp-name 11
              rec · olept - name
    ENP LOOP ;
          END;
```

PROGRAM 13
Write a PL/SQL program to display the job IDs, titles, and minimum salaries of all jobs.

```
Declare

Begin

for rec INC Relect bobjet & 906 title, min. Sal from Sohs

toop

DBMS - OUTPUT, PUT_LINE (rec. 906-id Mrec. 906 - title 11

rec-min. sal);

END 1000 ;

END :
```

PROGRAM 14
Write a PL/SQL program to display the employee IDs, names, and job history start dates of all employees.

```
Declarie

Begin

for rec in [ seclet e.emp_ial, e. first name 11 " 11

e.lastname As emp_name, in start date from

employees & Join Job-history on e emp_id = Jh, emp_id

LOOP

BNS-DUTPUT, PUTLINE (rec. emp_id, rec emp. namu,

To ichar (rec selent date; sp. Mon yyy);

FND LOOD;
```

END !

PROGRAM 15
Write a PL/SQL program to display the employee IDs, names, and job history end dates of all employees.

Declare V-amployee id employee id ". Type"

V-first-name employees first-name". Type:

V-last-name employees. last-name". Type:

V_end_clast to b-history. end. date ". Type:

cursor emp-cur Is

select e. employee-id e. First name, o. last-name

J. end. date from employees e Toin

for-history for e. employee-id = J. employee-id;

Evaluation Procedure	Marks awarded
PL/SQL Procedure(5)	
Program/Execution (5)	
Viva(5)	3
Total (15)	
Faculty Signature	