Ex.No.: 11	
Date: 2 4 / (2) 0 4	PL SQL PROGRAMS
	CORAINS

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);
```

DECLARE

emp_id employees. emp_id / TYPE: 110; comp-name employers. name y. TYPE, emp-salary employees. Salary V. TYPE; incentive NUMBER (7,2),

BEGIN

SELECT name, Salary INTO emp-name, emp-salary FROM employees WHERE emp_id = 110;

incentive := emp_salary + 0.10,

DBMS - DUTPUT . PUT- LINE (Employer Name: 11 cmp_name),.

DBMS - OUTPUT. PUT_LINE ('Employee Salary: '11

DBNB - OUTPUT. PUT - LINE ('Incentive (10%): 'Il incentive) cmp_salary),.

EXCEPTION

WHEN NO_DATA_FOUND THEN

DBM3_COTPUT. PUT_LINE (Employee with ID 110 not found!);

WHEN OTHERS THEN DBMS_OUTPUT. PUT_LINES ('Exror!'11 SQLERRY) END;

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

PROGRAM 2

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

```
DECLARE

employer VARCHAR (50); = 'John Doe',

"Employer" VARCHAR (50); = 'Jone Doe';

BEGIN

DBMS - OUTPUT. PUT - LINE ('case - Insentive
('employer Namé): 11

DBMS - OUTPUT · PUT - LINE ('case - Sentitive ('employer namé'): '11

Exception

DBMS - OUTPUT · PUT - LINE ('case - Sentitive ('employer name''): '11

Exception

DBMS - OUTPUT · PUT - LINE ('Exxor: '11392ERRM),

END ,
```

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

```
SET
     SERVER OUTPUT
                    ON,
BEGIN
  UPDATE employees
 SET Salary = Salary + (Salary * 0.10)
  WHERE emp-id = 12
  RETURNING Salovy INTO: new_salovy,
  DBM3 - OUTPUT. PUT - LINE ('New Salary: 11: new Salary),
   EXCEPTION
       WHEN NO_DATA_ FOUND THEN
         DBMS_OUTPUT. PUT-LINE ("Employer with ID122
                             not found ).
        INHEN OTHERS-THEN
              DBMS- OUTPUT. PUT_LINE ('ENTON: 'II SQUEERM),
      END,
```

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.

```
SET SERVEROUTPUT. DN,'

BEGIN

The ('Hello' Is NOT NULL AND NULL IS NOT NULL) THEN

DBMS_DUTPUT. PUT_LINE ('BOTH ONE MOTEL'),

ELSE

DBMS_DUTPUT. PUT_LINE ('ATLICUST ONE IS NULL'),

END IF;

END;

Output: Atliast one is NULL
```

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

SET SERVERDUTPUT ON;

BEGIN

IF 'Helloworld' LIKE 'HY. WY. THEN

DBM'S - DUTPUT. PVT. LINE ('Patieun I matched.'),

END IF;

IF 'Hello 123' LIKE 'Hello_ 28' THEN

DBM'S - OUTPUT. PUT_ LINE ('Patieun 2 matched.'),

END IF;

If '50 y. discount' LIKE '50 \Y.Y. ESCAPE'Y THEN

DBM'S - OUTPUT. PUT-LINE ('Patieun 3 matched

with escape.'),

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.

SET SERVEROUTPUT ON, "

DECLARE

NUM 1 NUMBER: = 10;

NUM 2 NUMBER: = 20,

NUM - Small NUMBER: = LEAST (num1, num2);

NUM-large NUMBER: = GHREATEST (num1, num2),

BEGIN

DBMS-OUTPUT. PUT-LINE ("Small:"//

num_small 11 'dange:"||

END;

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

SET SERVEROUTPUT ON;

CREATE OR REPLACE PROCEDURE calc-incentive (emp_id IN Number) IS

BEGIN

UPDATE employees SET incentive = +anget_achieved * 0.10 kn HERE

emp_id = emp-id AND TARGIET

DBMS-OUTPUT-PUT LINE (REcord'II case WHEN SQL > ROW COUNT > 0

THEN 'UPDATED.'

ELSE 'not UPdated'END);

END;

PROGRAM 8

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

SET SERVEROUTPUT ON,'

CREATE OR REPLACE PROCEDURE calc_inuntive (cmp-id in Number) Is

Salus_limit_NUMBER = 1000,'

incentive

BEGIN

SELECT (ASE WHEN total_Salu = Salus_limit THEN

+otal_salus ** 0.10

UPDATE employees SET Incentive = Incentive amount WHERE

emp-id = emp_bl; "Incentive for ID'll empiral 11'.'II

Exception

Incentive_amount),'

WHEN NO_DATA-FOUND THEN DBMS-ourput. PUT-LINE ("Employee not Found".);

END;

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.

DECLARE

emp-count NUMBER;

BEGIN

SELECT COUNT C+) INTO emp-count promemployer where

department_id = 50;

DBMS-OUTPUT. PUT-LINE ('employer's in DEPT 50: 'll emp-count);

DBMS-OUTPUT. PUT-LINE (IF(emp-count <45; 'vacancies available '));

END;

PROGRAM 10

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

```
SET SERVER OUTPUT ON;

DECLARE

emp_count NUMBER;

Vacancies NUMBER:=45;

BEGIN

SELECT count(*) Into emp_count from employees

where depositment = 50;

DBMS_DUTPUT. PUT_LINE ('Enployees in JEPT 50:'ll

emp_count || 'vacancies' || (vacancies_emp_count);

END;
```

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

```
SET SERVERDUTPUT ON;

BEGIN

FOR YEC in (Select entloyer-id, name, job-title, hire-date,

Salary from DBM3-OUTPUT. PUT.LINE ('ID! || rec. employer-it! ||

1, Name: '| rec. rame ||

1, Job title: '| rec. job-title ||

1, Hire Date: '| rec., hire-date ||

1, Salary: '| rec. Salary),

END Loop;

END;
```

PROGRAM 12

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

```
SET SERVER DUTPUT. ON;

BEGIN

FOR YEC IN (SELECT e. employer-id, c. name, that

A · department-name From employers e

JOIN departments of on e. department. id =

d · department

DBMS - DUTPUT. PUT_LINE ('ID:' || rec. employer. id ||

', Name:' || rec. name ||

', Department:' || rec. department_name),

END loop;

END;
```

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

```
SET SERVER DUTTUT.ON;

BEGIN

FOR YES IN (Select job.id, job-title, min. Salary From) Loop

DBMS-OUTPUT.PUT-LINE ('JobID: 11 rec. job_id!)

\, Title:'11 rec. job-title!!

\, min Salary:'11 rec. min-Salary);

END bop;

END;
```

PROGRAM 14

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

```
SET SERVEROUTPUT ON;

BEGIN

POX rec (select exemployer_id, e. name,

J. Start_date

FROM employers e

JOIN job-history i on exemployer_id = j. employer_id;

DBMS - DUTPUT · PUT. LINE ('ID:'ll rec. employer_id!)

', Name: 'll rec. name!)

'I Job Start Date: || rec. startdate);

END Loop;

END;
```

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

SET SERVER DUTPUT ON;

BEGIN

FOR rec in (sclict e employee id., e-name,

j. end -date

FROM employees e

Join job-history j on e employee-id=j.

employee-id)

DAMS-DUTPUT. PUT-LINE ('ID:'||rec. employee-id|)

('Name:'||rec. name ||

i, Job End Datc:'||rec. end-date);

END LOOP;

END;

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