Ex.No.: 11	PL SQL PROGRAMS	
Date: 2409 2024		

PROGRAMS

SERVER SERVED SE

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_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);
```

1

DECLARE

emp_id employees. emp_id 1/ TYPE==110; emp-home employees. name 1. Trie; emp-Solary employee. salaxy-1. TYPE; incentivo NUMBER(7,2):

BEGIIN

SELECT name, Salary INTO emp_name, emp_Salary FROM employees WHERE emp. id=110;

incentive: = emp_Salasy* 0.10;

DBMS - output. PUT_LINE (GEMPLOYER Name: (Il out vone);

DBMS - OUTPUT. PUT - LENE (6 EMPloyee Salasy: · 11 emp_saluxy);

DBMS - OUTPUT . PUT - LINE (CINCONLINE CIOY .):

(11 incentive):

EXCEPTAON:

WHEN NO_DATA-FOUND THEN

DBMS_OUTPUT. PUT_LINE ('Em ployee

with ID 110 not found?)

WHEN OTHERS THEN DBME-OUT PUT-PUT-LINE (EXXOX: 1)

END; / SOLERPM);

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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.

SERVER OUTPUT ON; PECLARE employee VARCHAR(50); = 6 John Doe; "Employee" VARCHAR(50); = 'Jane Doe"; DBMS_OUTPUT. PUT_LINE (6 (ase - Inserting (Gemployee Name"):111 DBMS_OUTPUT. PUT_LINE (6 (ase _ sensitive (4 employee Name 19):111 DBMS_OUTPUT. PUT-LINE (E 2808: "11 SQUERTED; EXCEPTION

PROGRAM 3

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

SET SERVER OUTPUT ON; BEGIZN UPDATE employees SET Saloty = Salaty + (Salary * 0.10) WHERE emp-id=12 RETURNING Salary INTO: New-salary; DBMS_OUTPUT. PUT_LINE (6New Salaky: 11; newsalary) EXCEPTS ON WHEN NO_DATA_FOUND THEN DBMS_OUTPUT. PUT_LINE (6 Employee with IP 122 hot found. 1); WHEN OTHERS - THEN DBMS-OUTPUT. POT-LINE ((Exxox: ' 11 SatERIN); 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 SERVER NOT PUT. ON! BEGIN IF (HELLOT IS NOT NOLL AND NOLL IS NOT NOLL) THEN DBMS_OUTPUT. PUT_LINE (& BOTH are not NULU); DBMS_OUTPUT. PUT_LINE ("Atleast one is NOLD; ELSE END IF END, output!-Atleast one is NULL

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

SEY SERVEROUTPUT ON; IF 6HELLO WOOVER 1 LIKE FIT. WY. 7 THEN BEGIN DBMS-OUTPUT. PUT-LIHE (6 Patter 1 matched. 1); END IF; IF (Hello 123) LIKE Hello-231 THEN DBMS_ OUTPUT. PUT_LINE (Pattern 2 matched.) IF 150% discount LIKE 1501 1.1. ESCAPE (1) THEN DBMS_DUTPUT. PUT_LINE (6)Pattern 3 matched with except

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 SERVER OUTPUT ON, DECLARE humi NUMBER: =10; huma NUMBER: = 20; hun Small NUMBER:= LAST (num 1, num2); hum clarge NUMBER: = GREATEST (num!, huma); BEGITH DBMS- OUTPUT. PUT- LINE ("Small: " | Incom_ Small !) Large - 611)

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

SET SERVER OUTPUT ON! CREATE OR REPLACE PROCEDURE COLC- încentive (emplid IN number) IS UPDATE employees SET incentive=taxget achiever 0.10 WHERE emp-id = emp-id ANDD TAR GET DBMS-OUT PUT-PUT-LINE 16 REWARD "II CASE WHEN SOL ! POW COUNT > 0 THEN (UPdated., ELSE "not updated. FND) 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-incentive (enf-id IN NUMBER) IS Soles-linit_NUMBER=1600; incentive BEGIN SELECT CASE WHEN total soles - Soles_ limit ITHEN total_sales & 0.10 UPD ATE employees SET incentive: Exantive - amount WHERE emplid = emplid; DBMB= OUTPUT PUT - LINE ("I DO 1 tivo fox II) " [emp- [id] " "] cinentive - amount)

WHEN NO.DATA-FOUND THEN OBMS. OUTPUT. PUT LINE (6 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,

SET SERVEROUTPUT ON, DECLARE emplount NUMBER! SELECT COUNT (+) INTO EMP-COUNT FROM BEGIZN employees WHERE department - 1d = 50; JBMS-OUTPUTPUTL LINE (templeyers in JEPT So:) >- Count); DBMS_OUTPUT. PUT_LINE(IIF(emp-(out 245) 11 cmp- Court) · vacancies available ?)) ENDY

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 OUT PUT ON; DECLARE emp-court NUMBER Vacancies NUMBER:=45; BEGIN SELECT COUNTCH) INTO emp-Count FROM employees WHERE depostment=50, DBMS-OUTPUT. PUT_ LINE GEMPLOYERS in DEPT 50: (|employers in DEPT 50: (|employers in DEPT 50: (|employers) Cyaconcos-comp-come); END;

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

SERVER DUTPUT GN; SET FOR rec IN CSFIECT employee - id, home, job-title, buise - date, Salary FROM DBMS - OUTPUT. PUT LINE (GID: 111 rec. employee - id) 1, Name: 111 rec. namel 6, Job title: 611 8ec. Job- textell 6, Hire DATE: 11 sec. hire-datell Salasy: 111 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 OUTPUT ON; FOR yet INCSFLECT e. enployee id e. nome d. departments department - none from employee Join departments d on e. department -id = d. department DBMS-DUTPUT. PUT-LINE (6ID:) | sec. employers-id | 6, Nano: 1/180.
name 116, Depositment: 1 | recodepositment-house)

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

DUTPUT. ON SEFUER SET rec INCSELECT Job- (d, job-title, min-BEGIN DBMS-OUTPUT. PUT-LINE ("Job ID:)) | dec.job-id | Salony FROMILOOP 6, title: 111 sec. job-title!)
6, min Salasy: 111 sec. min-Salasy); END LOOP;

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

SET SERVER OUTPUT DN; BEGIN FOR rec CSELECT e. employee-id, e. name, F. Stoot data FROM emplayers a JOIN job = history j on e. employa _ id= 5-employee - id) DBMS-OUTPUT. PUT_LINE("FD:> 11 rec. employa_ id | 6, Name: 1/18ec. name 11 5 tob Stort Date: 11 8ec-Stort date): END LOOP;

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

SET SERVER OUTPUT ON;

BEGIN

FOR YEC IN(SELECT e.employee - id, e.nome, j. end.

date FROM employees e 30IN job - history j on

e.employee - id = j. employee - id)

DBMS - DUTPUT. PUT_LINE ("ID: 1 || Yec. employee - id|)

i, Name: 6 || Yec. name || 6, Job

END LOOP;

END.

Evaluation Procedure	Marks awarded	
PL/SQL Procedure(5)	5	
Program/Execution (5)	5	
Viva(5)	H	
Total (15)	14	
Faculty Signature	V	