NAME: Amirthavarshini R U REG NO: 230701027

Ex.No.: 11	WORK WITH JOINTS
Date: 07.10.24	

PROGRAM 1

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

declare
a employees.employee_id%type;
b employees.salary%type;
begin
Select salary into a from employees where employee_id =
110; b:=0.05*a;
dbms_output_put_line('Salary after incentive : '||(a+b));
end;

block to

Salary after incentive : 6300

Statement processed.

0.01 seconds

PROGRAM 2

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

```
declare
non_quoted_variable varchar2(10) := 'Hi';
"quoted_variable" varchar2(10) := 'Hello';
begin
dbms_output.put_line(NON_QUOTED_VARIABLE);
dbms_output.put_line("quoted_variable");
dbms_output.put_line("QUOTED_VARIABLE");
end;
```

```
ORA-06550: line 7, column 23:
PLS-00201: identifier 'QUOTED_VARIABLE' must be declared
ORA-06550: line 7, column 1:
PL/SQL: Statement ignored
```

Write a PL/SQL block to

Hi Hello

Statement processed.

adjust the salary of the employee whose ID

122. Sample table: employees

Before updation: 8000 After updation: 9000

Statement processed.

0.00 seconds PROGRAM 4

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

and escape character.

```
Create or replace procedure proc1( a boolean, b boolean) IS
BEGIN
if(a is not null) and (b is not null) then if(a
= TRUE and b = TRUE) then
dbms_output.put_line('TRUE');
else
dbms_output.put_line('FALSE');
end if; else
dbms_output.put_line('NULL VALUES in arguments');
end if; end proc1;
BEGIN proc1(TRUE,TRUE);
proc1(TRUE,FALSE);
proc1(NULL,NULL);
end;
 TRUE
 FALSE
 NULL VALUES in arguments
 Statement processed.
 0.00 seconds
                      describe the usage of LIKE operator including wildcard characters
```

```
Declare
name varchar2(20);
num number(3);
Begin num := :n;
Select first_name into name from employees where employee_id=num;
if name like 'D%' then
dbms_output.put_line('Name starts with "D"'); end
if;
if name like 'Dan_el%' then
dbms_output.put_line('Name contains "Dan" followed by one character');
end if;
name := 'Daniel_Andrea';
if name like 'Daniel\_Andrea' escape '\' then
dbms_output.put_line('Name contains
"Daniel_Andrea"'); end if; end;
```

block to

```
Name starts with "D"
Name contains "Dan" followed by one character
Name contains "Daniel_Andrea"
Statement processed.
```

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 a number(2); b
number(2);
num_small
number(2); num_large
number(2);
begin
a := :s;
b := :1;
dbms_output_line('Value in a : '||a);
dbms_output_line('Value in b : '||b);
if a>b then num_small := b; num_large
:= a: else
num_small :=a;
num_large :=b;
end if:
dbms_output.put_line('Smaller
                                    number
'||num small); dbms output.put line('Larger number is
'||num_large); end;
```

```
Value in a: 10
Value in b: 5
Smaller number is 5
Larger number is 10
Statement processed.

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

```
Before incentive calculation: 21000
Record(s) updated
After incentive calculation: 23500
Statement processed.
```

```
Create or replace procedure calc_incen(emp_id number,achievement number,target
number)
AS
incentive number; rowcount
number;
             Begin
                         if
achievement > target
                       then
incentive:=
achievement*0.2;
                       else
incentive:=0; end if;
Update employees set salary = salary + incentive where employee_id = emp_id; rowcount:=
SQL%ROWCOUNT;
if rowcount>0 then
dbms_output.put_line('Record(s) updated');
dbms_output.put_line('No Record(s) updated');
end if;
end;
Declare id
             number;
achievement
              number;
target number; Begin id
:=
              :emp_id;
achievement
                    :=
:achieve;
           target
                    :=
:target_;
calc_incen(id,achievement,target);
end;
```

Record(s) updated

Statement processed.

PROGRAM 8

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

PROGRAM 9

Write a PL/SQL

```
Create or replace procedure calc incen(emp id number, sales number) AS
incentive number; rowcount number; Begin
if sales < 1000 then incentive:=
elsif sales > 1000 and sales < 2000 then
incentive := sales * 0.2; else
incentive := sales * 0.5;
end if:
Update employees set salary = salary + incentive where employee_id = emp_id;
rowcount:= SQL%ROWCOUNT;
if rowcount>0 then
dbms output.put line('Record(s) updated');
else
dbms output.put line('No
                                   Record(s)
updated'); end if; end;
Declare
           id
number:
sales
number; sal
number;
Begin id ≔
:emp_id;
sales := :sale;
select salary into sal from employees where employee id = id;
dbms_output.put_line('Before incentive calculation: '||sal);
calc_incen(id,sales);
select salary into sal from employees where employee_id = id;
dbms output.put line('After incentive calculation: '||sal); end;
```

PROGRAM 10

Write a PL/SQL to

program count number of employees in department 50 and check whether this department have any vacancies or not. There are 45 vacancies in this department.

```
= 10:
declare emp_count number;
vacancy
number := 20;
begin
Select
             count(*)
                           into
                                  emp count
                                                from employees
                                                                     where
      department_id dbms_output.put_line('Total seats : '||vacancy);
dbms_output.put_line('Number of employees in Department 50: '||emp_count); if
emp_count>vacancy then
dbms_output.put_line('No vacancies available'); else
dbms_output.put_line('Available vacancies: '||(vacancy-emp_count)); end
if; end;
```

```
Total seats: 10
Number of employees in Department: 2
Available vacancies: 8

Statement processed.
Total seats: 20
Number of employees in Department 50: 3
Available vacancies: 17
```

Statement processed.

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.

PROGRAM 11

Write a PL/SQL to

```
declare
              dept_id
           emp_count
number;
number;
             vacancy
number := 10; begin
dept_id := :id;
Select count(*) into emp_count from employees where department_id = dept_id;
dbms_output.put_line('Total seats : '||vacancy);
dbms_output.put_line('Number of employees in Department : '||emp_count);
if emp_count>vacancy then
dbms_output.put_line('No vacancies available');
else
                                                      '||(vacancy-
dbms_output.put_line('Available
                                   vacancies
emp_count)); end if; end;
```

program display the employee IDs, names, job titles, hire dates, and salaries of all employees.

```
employee id: 101
name: John
job title: IT PROG
hire date: 01-jan-1994
salary: 6020
______
employee id: 176
name: Jane
job title: HR REP
hire date: 20-feb-2019
salary: 12500
employee id: 103
name: Mike
job title: SA MAN
hire date: 01-mar-1998
salary: 7200
-----
employee id: 104
name: Emily
job title: AC ACCOUNT
hire date: 01-jan-1998
salary: 15000
employee id: 105
name: Robert
job title: ST CLERK
hire date: 25-jul-2018
salary: 6200
```

to

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

```
employee id: 101
name: John
department name: IT PROG
------
employee id: 176
name: Jane
department name: HR REP
-----
employee id: 103
name: Mike
department name: SA MAN
employee id: 104
name: Emily
department name: AC ACCOUNT
-----
employee id: 105
name: Robert
department name: ST CLERK
```

to

to

PROGRAM 13

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

to job id: 101 job title: Software Engineer minimum salary: 60000 ----job id: 102 job title: Data Analyst minimum salary: 50000 ----job id: 103 job title: Project Manager minimum salary: 70000 job id: 104 job title: HR Manager minimum salary: 55000 job id: 105 job title: Marketing Specialist minimum salary: 45000

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

```
Begin
for i in (select employee_id,employee_name,start_date from job_history)
loop dbms_output.put_line('employee id: ' || i.employee_id);
dbms_output.put_line('name: ' || i.employee_name);
dbms_output.put_line('start date: ' || to_char(i.start_date, 'dd-mon-yyyy'));
dbms_output.put_line('------'); end loop; end;
```

```
employee id: 201
 name: James
 start date: 01-jan-2010
 employee id: 202
 name: King
 start date: 01-jan-2012
 ------
 employee id: 203
 name: Smith
 start date: 01-jan-2013
 -----
 employee id: 204
 name: Steve
 start date: 01-jan-2014
 employee id: 205
 name: Robert
 start date: 01-jan-2015
PROGRAM 15
```

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

```
Begin for i in (select employee_id,employee_name,end_date from job_history) loop dbms_output.put_line('employee id: ' || i.employee_id); dbms_output.put_line('name: ' || i.employee_name); dbms_output.put_line('end date: ' || to_char(i.end_date, 'dd-mon-yyyy')); dbms_output.put_line('------'); end loop; end;
```

employee id: 201

name: James

end date: 10-oct-2015

employee id: 202

name: King

end date: 15-sep-2016

employee id: 203

name: Smith

end date: 20-mar-2017

employee id: 204

name: Steve

end date: 05-apr-2018

employee id: 205

name: Robert

end date: 12-may-2019

والمحيد فالمحموط والفاتها فالمحموط والفاتق فالمحمول فالمحمولة والقاتف الماطات