PLSQL TASK

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Task 5

1. Create plsql block and to check for employee with id = 105; and update his commission_pct based on his salary

SALARY < 7000 : COMM = 0.1

7000 <= SALARY < 10000 COMM = 0.15

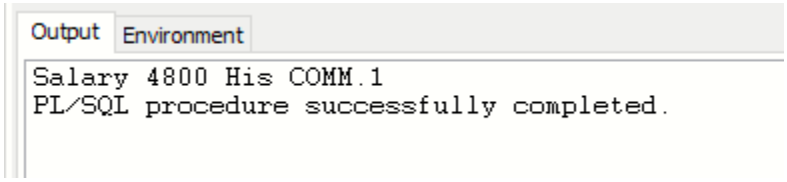
10000 <= SALARY < 15000 COMM = 0.2

15000 <= SALARY COMM = 0.25

```
declare
v_salary number(8,2);
 COMM number(3,2);
begin
select salary into v_salary from employees
where employee_id=105;
if v_salary <7000 then
COMM :=0.1;
elsif v_salary >=7000 and v_salary <10000 then
COMM :=15;
elsif v_salary >=10000 and v_salary <15000 then
COMM :=.2;
else
COMM :=.25;
end if;
```

dbms_output.put_line('Salary '||v_salary|| ' His COMM' || COMM);

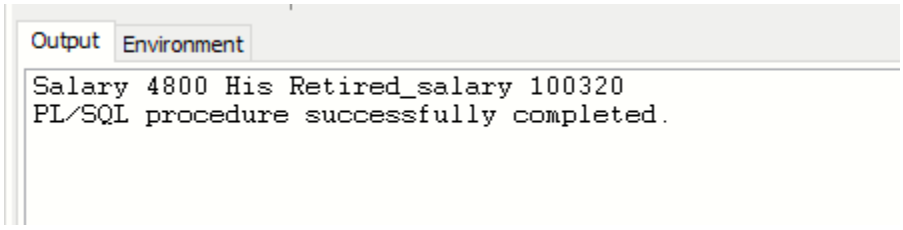
end;



2. Create plsql block to calculate the retired salary for the employee no = 105

Retired salary = no of working months * 10 % of his current salary

```
declare
v_salary number(8,2);
 Retired_salary number(12,2);
   v_date date ;

begin
select  hire_date ,salary into v_date,v_salary from employees
where employee_id=105;

Retired_salary:= trunc( months_between(sysdate, v_date) )*.1*v_salary;



dbms_output.put_line('Salary '||v_salary|| ' His Retired_salary ' || Retired_salary  );


end;


--2. Create plsql block to calculate the retired salary for the employee no = 105
--Retired salary = no of working months * 10 % of his current salary
```



3. Create plsql block to print last name, department name, city, country name for employee whose id = 105 (without using join | sub query)

```
set serveroutput on
declare
v_last_name varchar2(100);
v_LOCATION_ID LOCATIONS.LOCATION_ID%type;
v_department_id number(4);
v_COUNTRY_ID LOCATIONS.COUNTRY_ID%type;
v_city LOCATIONS.city%type;
v_COUNTRY_NAME COUNTRIES.COUNTRY_NAME%type;

v_department_name varchar2(100);
begin
select last_name,  department_id
into v_last_name,  v_department_id
from employees
where employee_id = 105;
--- plsql statements


select department_name,LOCATION_ID into v_department_name,v_LOCATION_ID
from departments
where department_id = v_department_id;
select city, COUNTRY_ID into v_city,v_COUNTRY_ID
from locations
where LOCATION_ID=v_LOCATION_ID;
select COUNTRY_NAME into  v_COUNTRY_NAME
from countries
```

```
select department_name,LOCATION_ID into v_department_name,v_LOCATION_ID
from departments
where department_id = v_department_id;
select city, COUNTRY_ID into v_city,v_COUNTRY_ID
from locations
where LOCATION_ID=v_LOCATION_ID;
select COUNTRY_NAME into  v_COUNTRY_NAME
from countries
where COUNTRY_ID=v_COUNTRY_ID;

dbms_output.put_line(' Emp name is '||v_last_name);
dbms_output.put_line('Department Name  is '||v_department_name);
dbms_output.put_line('City = '||v_city);
dbms_output.put_line('Country Name= '||v_COUNTRY_NAME);
end;
/*3. Create plsql block to print last name, department name, city, country name for
employee whose id = 105 ( without using join | sub query )
*/
```

```
Emp name is David Austin
Department Name  is IT
City = Southlake
Country Name= United States of America
```

4. Create plsql block that loop over employees table and

Increase only those working in ‘IT’ department by 10% of their salary

```
declare
v_last_name varchar2(100);
v_department_id number(4);
v_min number(4); v_max number(4); v_cnt number(3);
v_salary1 number(8, 2);
job_v employees.job_id%type;
begin
select min(employee_id), max(employee_id)
into v_min, v_max
from try4
where job_id like '%IT%';
for i in v_min..v_max loop
select count(*) into v_cnt
from try4 where employee_id = i;
if v_cnt = 1 then
select last_name, salary+(.1*salary), department_id,job_id
into v_last_name, v_salary1 , v_department_id,job_v
from try4
where employee_id = i;
dbms_output.put_line(i||' '||v_last_name||' '||v_salary1||' '||v_department_id||' '||job_v);
end if;
end loop;
end;
create try4 as
select * from employees where job_id like '%IT%';
```

```
103 Hunold 9900 60 IT_PROG
104 Ernst 18700 60 IT_PROG
105 David Austin 5280 60 IT_PROG
106 Pataballa 5280 60 IT_PROG
107 Lorentz 4620 60 IT_PROG
207 Momtaz 19800 280 IT_PROG
PL/SQL procedure successfully completed.
```

5. Create empty table employees_again and use loop to insert only employees whose job_id = ‘SA_REP’ to the new table with double salary [salary * 2]

```
declare
    cursor c_emp1  is
SELECT* FROM employees WHERE job_id = 'SA_REP';
begin
  FOR emp_record IN c_emp1 loop
  INSERT INTO try(LAST_NAME, SALARY, JOB_ID) VALUES
(emp_record.LAST_NAME,( 2*emp_record.SALARY),emp_record. JOB_ID);
 commit;
  END LOOP;
END;
```

```
PL/SQL procedure successfully completed.

LAST_NAME                      SALARY JOB_ID
------------------------- ---------- ----------
Tucker                          20000 SA_REP
Hall                            18000 SA_REP
Olsen                           16000 SA_REP
Tuvault                         14000 SA_REP
Sully                           19000 SA_REP
Smith                           16000 SA_REP
Doran                           15000 SA_REP
Vishney                         21000 SA_REP
Marvins                         14400 SA_REP
Lee                             13600 SA_REP
Banda                           12400 SA_REP
Bloom                           20000 SA_REP
Fox                             19200 SA_REP
Bates                           14600 SA_REP
Abel                            22000 SA_REP
```

6. Using While loop to loop over departments and print dept_id, dept_name

```
declare
 v_department_id departments.DEPARTMENT_ID%type;
 v_dep_name departments.DEPARTMENT_NAME%type;
i number(3) ;
v_max number(3) ;
v_min number(3) ;
begin
select min(DEPARTMENT_ID), max(DEPARTMENT_ID)
into v_min, v_max
from departments;
    while v_min< v_max Loop
       select DEPARTMENT_ID,DEPARTMENT_NAME
       into v_department_id, v_dep_name
       from departments
       where department_id = v_min;
     dbms_output.put_line(i||' '||v_department_id||' '||v_dep_name);
       v_min:= v_min+ 10;
```

tput

```
v_max number(3) ;
v_min number(3) ;
begin
select min(DEPARTMENT_ID), max(DEPARTMENT_ID)
into v_min, v_max
from departments;
    while v_min< v_max Loop
       select DEPARTMENT_ID,DEPARTMENT_NAME
       into v_department_id, v_dep_name
       from departments
       where department_id = v_min;
     dbms_output.put_line(i||' '||v_department_id||' '||v_dep_name);
       v_min:= v_min+ 10;
    End Loop;
end;
```

```
10 Administration
20 Marketing
30 Purchasing
40 Human Resources
50 Shipping
60 IT
70 Public Relations
80 Sales
90 Executive
100 Finance
110 Accounting
120 Treasury
130 Corporate Tax
140 Control And Credit
150 Shareholder Services
160 Benefits
170 Manufacturing
180 Construction
190 Contracting
200 Operations
210 IT Support
220 NOC
230 IT Helpdesk
```