

--PLSQL Assessment

set serveroutput on;

-- 1. create a row level trigger to keep track of rows updated and deleted from locations table

create table loc_onkar as select * from locations;

select * from loc_onkar;

create table user_log_onkar(username varchar2(20),dml_time timestamp,dml_ops
varchar2(20), o_location_id number(8), n_location_id number(8),
o_city varchar2(40), n_city VARCHAR2(40));

select * from user_log_onkar;

create or replace trigger loc_trig_onkar after update or delete on loc_onkar

REFERENCING old as o new as n

for each row

begin

if updating then

insert into user_log_onkar values(user, sysdate,
'UPDATE', :o.location_id, :n.location_id, :o.city, :n.city);

elsif deleting then

insert into user_log_onkar values(user, sysdate,
'DELETE', :o.location_id, :n.location_id, :o.city, :n.city);

end if;

end;

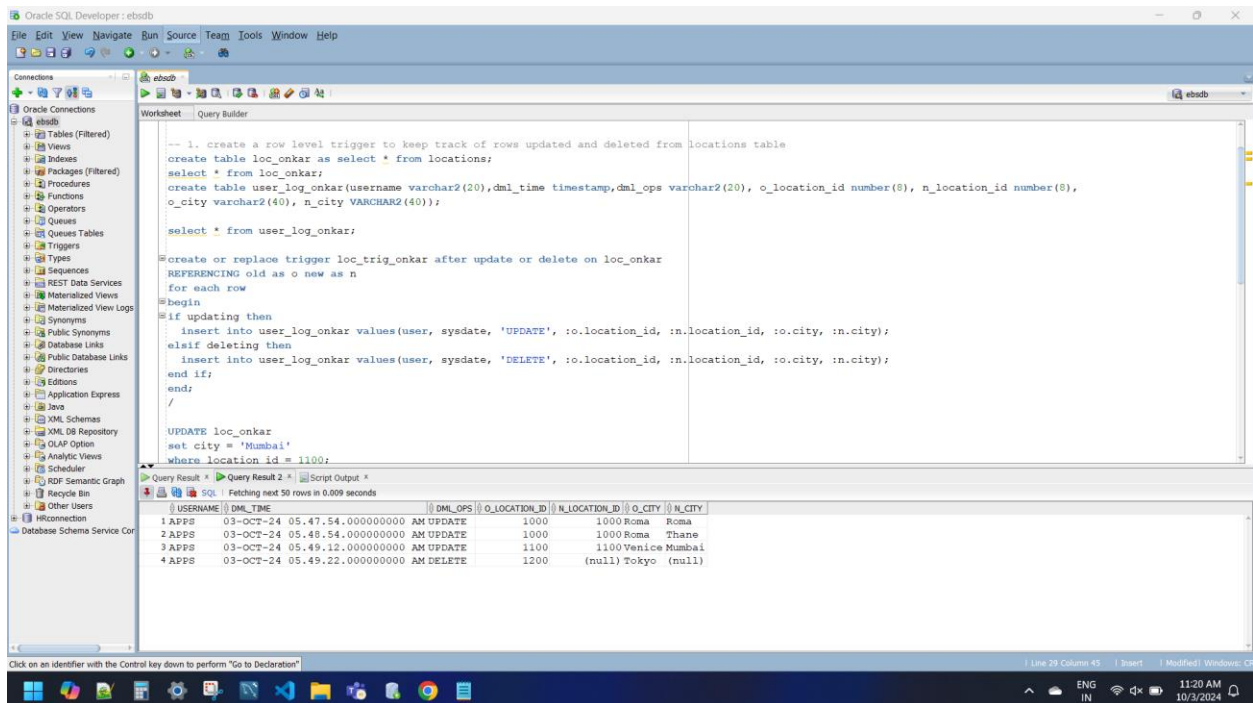
/

UPDATE loc_onkar

set city = 'Mumbai'

where location_id = 1100;

delete from loc_onkar where location_id = 1200;



-- 2. write a plsql program to make sum of 10,20,30,40,50 using loop

declare

type num_nest is table of number(8,2);

l_num num_nest;

t_num number(8,2) := 0;

begin

l_num := num_nest(10,20,30,40,50);

for i in 1..l_num.count loop

```

t_num := l_num(i) + t_num;

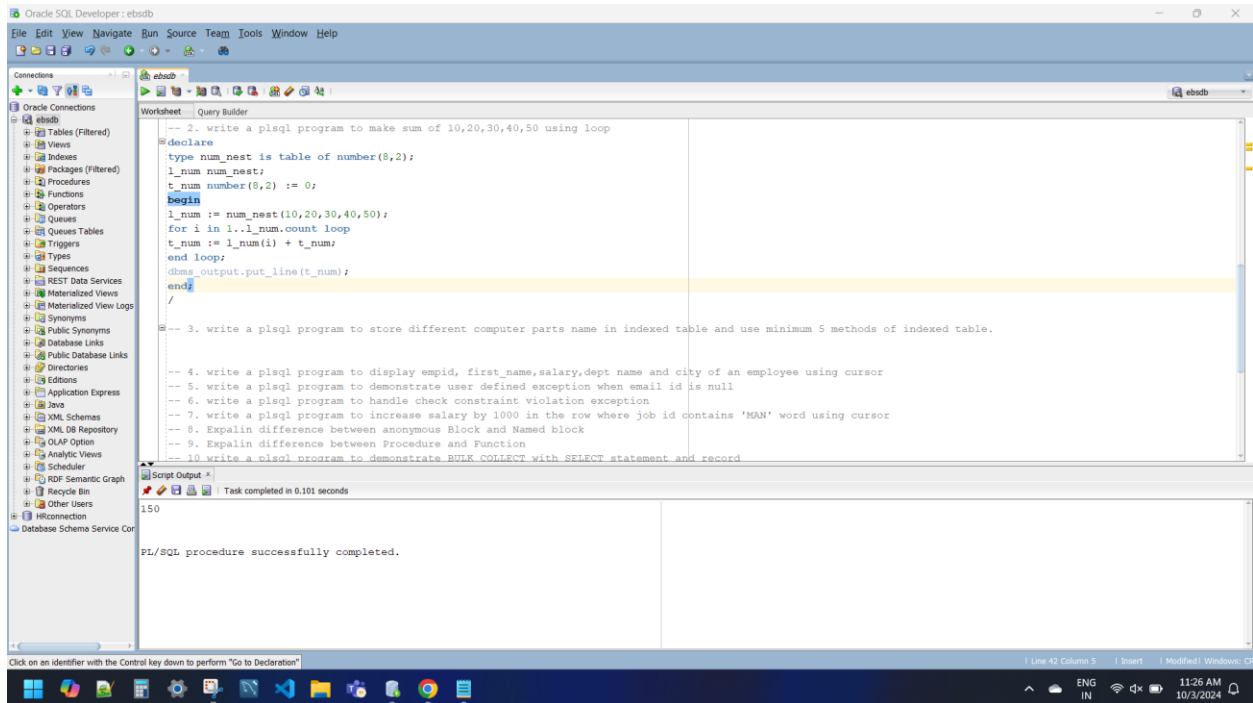
end loop;

dbms_output.put_line(t_num);

end;

/

```



-- 3. write a plsql program to store different computer parts name in indexed table and use minimum 5 methods of indexed table.

```

declare

type comp_parts_idx is table of varchar2(40)

index by PLS_INTEGER;

c_idx comp_parts_idx;

begin

c_idx(1) := 'mouse';

c_idx(2) := 'monitor';

c_idx(3) := 'ram';

```

```
c_idx(4) := 'cpu';
```

```
c_idx(5) := 'keypad';
```

```
c_idx(9) := 'wires';
```

```
dbms_output.put_line(c_idx.first);
```

```
dbms_output.put_line(c_idx.last);
```

```
dbms_output.put_line(c_idx.prior(5));
```

```
dbms_output.put_line(c_idx.next(5));
```

```
c_idx.delete(4);
```

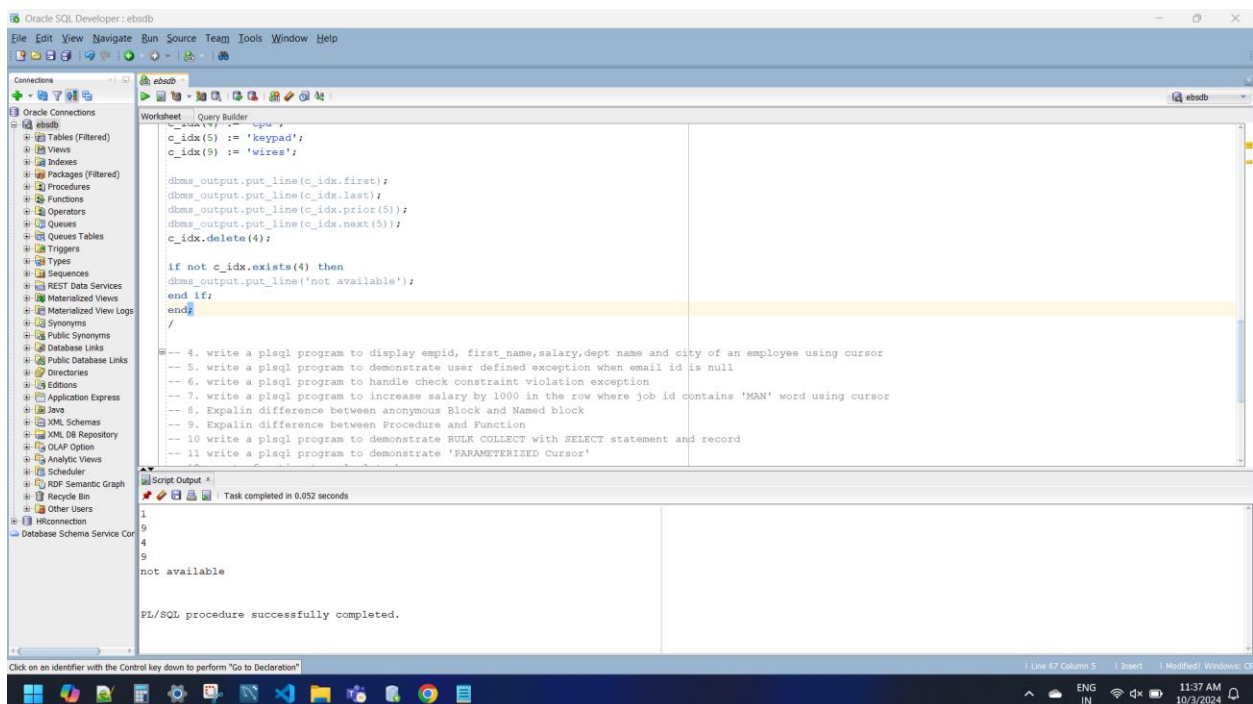
```
if not c_idx.exists(4) then
```

```
dbms_output.put_line('not available');
```

```
end if;
```

```
end;
```

```
/
```



The screenshot displays the Oracle SQL Developer interface. The main window shows a PL/SQL script with the following code:

```
-- c_idx(4) := 'cpu';
c_idx(5) := 'keypad';
c_idx(9) := 'wires';

dbms_output.put_line(c_idx.first);
dbms_output.put_line(c_idx.last);
dbms_output.put_line(c_idx.prior(5));
dbms_output.put_line(c_idx.next(5));
c_idx.delete(4);

if not c_idx.exists(4) then
dbms_output.put_line('not available');
end if;
end;
/
```

Below the script, the 'Script Output' window shows the execution results:

```
1
2
3
4
5
not available

PL/SQL procedure successfully completed.
```

The status bar at the bottom indicates 'Task completed in 0.052 seconds'.

-- 4. write a plsql program to display empid, first_name,salary,dept name and city of an employee using cursor

```
select * from employees;
```

```
select * from departments;
```

```
select * from locations;
```

```
create or replace procedure e_details_onkar786(e_id in number) is
```

```
cursor e_details is select employee_id, first_name, salary, department_name, city from  
employees join departments using (department_id)
```

```
join locations using(location_id) where employee_id = e_id;
```

```
type e_rec is record (
```

```
e_id employees.employee_id%type,
```

```
e_name employees.first_name%type,
```

```
e_Sal employees.salary%type,
```

```
e_Dept departments.department_name%type,
```

```
e_City locations.city%type
```

```
);
```

```
rec e_rec;
```

```
begin
```

```
open e_details;
```

```
fetch e_Details into rec;
```

```
close e_details;
```

```
dbms_output.put_line(rec.e_id || ' ' || rec.e_name || ' ' || rec.e_Sal || ' ' || rec.e_Dept || ' ' ||  
rec.e_city );
```

```
end;
```

```
/
```

```
begin
e_details_onkar786(100);
e_details_onkar786(101);
end;
/

--or

declare

cursor e_details is select employee_id, first_name, salary, department_name, city from
employees join departments using (department_id)
join locations using(location_id);

begin
for rec in e_details loop

dbms_output.put_line(rec.employee_id || ' ' || rec.first_name || ' ' || rec.salary || ' ' ||
rec.department_name || ' ' || rec.city );

end loop;

end;
/
```

```

begin
  e_details_onkar786(100);
  e_details_onkar786(101);
end;
/

--OR
declare
cursor e_details is select employee_id, first_name, salary, department_name, city from employees join departments using (department_id)
join locations using(location_id);
begin
for rec in e_details loop
  dbms_output.put_line(rec.employee_id || ' ' || rec.first_name || ' ' || rec.salary || ' ' || rec.department_name || ' ' || rec.city );
end loop;
end;
/

-- 5. write a plsql program to demonstrate user defined exception when email id is null
-- 6. write a plsql program to handle check constraint violation exception
-- 7. write a plsql program to increase salary by 1000 in the row where job id contains 'MAN' word using cursor
-- 8. Explain difference between anonymous Block and Named block
-- 9. Explain difference between Procedure and Function

```

Script Output

Task completed in 0.082 seconds

100	Steven	35000	Executive	Seattle
101	Neena	28000	Executive	Seattle
102	Ilex	28000	Executive	Seattle
103	Alexander	20000	IT	Southlake
104	Bruce	17000	IT	Southlake
105	David	9280	IT	Southlake
106	Valli	9280	IT	Southlake
107	Diana	4620	IT	Southlake
108	Nancy	23008	Finance	Seattle
109	Daniel	20000	Finance	Seattle

```

fetch e_details into rec;
close e_details;

dbms_output.put_line(rec.e_id || ' ' || rec.e_name || ' ' || rec.e_sal || ' ' || rec.e_Dept || ' ' || rec.e_city );

end;
/

begin
  e_details_onkar786(100);
end;
/

-- 5. write a plsql program to demonstrate user defined exception when email id is null
-- 6. write a plsql program to handle check constraint violation exception
-- 7. write a plsql program to increase salary by 1000 in the row where job id contains 'MAN' word using cursor
-- 8. Explain difference between anonymous Block and Named block
-- 9. Explain difference between Procedure and Function
-- 10 write a plsql program to demonstrate BULK COLLECT with SELECT statement and record
-- 11 write a plsql program to demonstrate 'PARAMETERIZED Cursor'
-- 12 create function to calculate bonus.
--   If joined months between 0 to 11 then bonus will be 10% of salary.
--   If joined months between 12 and 36 then bonus will be 25% of salary.
--   If joined months between 37 to 60 then bonus will be 40% of salary.
-- For more number of months bonus will be 60% of salary
-- 13 Write dynamic sql to create view with 3 columns data into it

```

Script Output

Query Result

Task completed in 0.068 seconds

100	Steven	35000	Executive	Seattle
-----	--------	-------	-----------	---------

PL/SQL procedure successfully completed.

-- 5. write a plsql program to demonstrate user defined exception when email id is null

//////////

create table nn_table_onkar(id number(4), email varchar2(40) not null);

insert into nn_table_onkar values(1,null);

```
select * from nn_table_onkar;
```

```
declare
```

```
nn_insert_exception exception;
```

```
pragma exception_init(nn_insert_exception,-01400);
```

```
begin
```

```
insert into nn_table_onkar values(1, null);
```

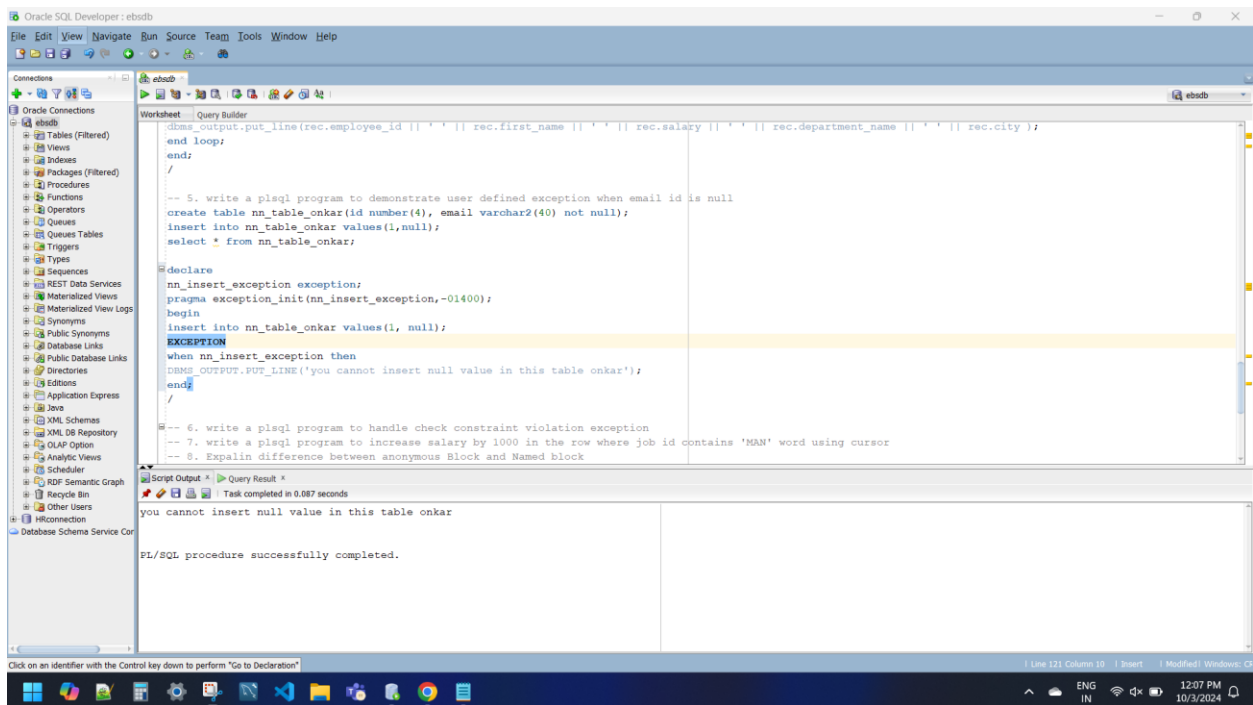
```
EXCEPTION
```

```
when nn_insert_exception then
```

```
DBMS_OUTPUT.PUT_LINE('you cannot insert null value in this table onkar');
```

```
end;
```

```
/
```



```
-- 6. write a plsql program to handle check constraint violation exception
```

```
create table pk_table_onkar(id number(5) primary key, name varchar2(40));
```



```

insert into pk_table_onkar values(1,'onkar');

select * from pk_table_onkar;

declare

pk_excptn exception;

pragma exception_init(pk_excptn,-00001);

begin

insert into pk_table_onkar values(2,'onkar');

insert into pk_table_onkar values(1,'onkar');

raise pk_excptn;

exception

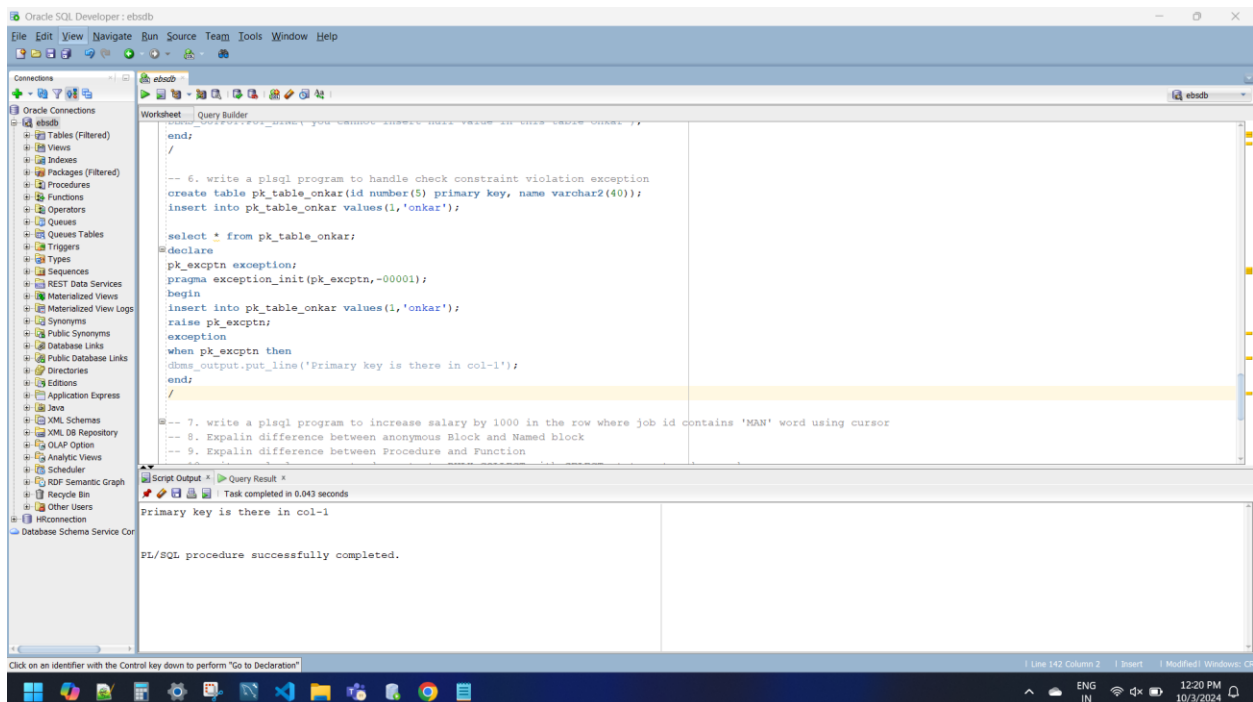
when pk_excptn then

dbms_output.put_line('Primary key is there in col-1');

end;

/

```



-- 7. write a plsql program to increase salary by 1000 in the row where job id contains 'MAN'
word using cursor

```
create table emp_onkar as select * from employees;
```

```
SELECT * FROM emp_onkar;
```

```
declare
```

```
cursor man_sal_raise is select * from emp_onkar where job_id like '%MAN%' for update;
```

```
begin
```

```
for rec in man_sal_raise loop
```

```
update emp_onkar
```

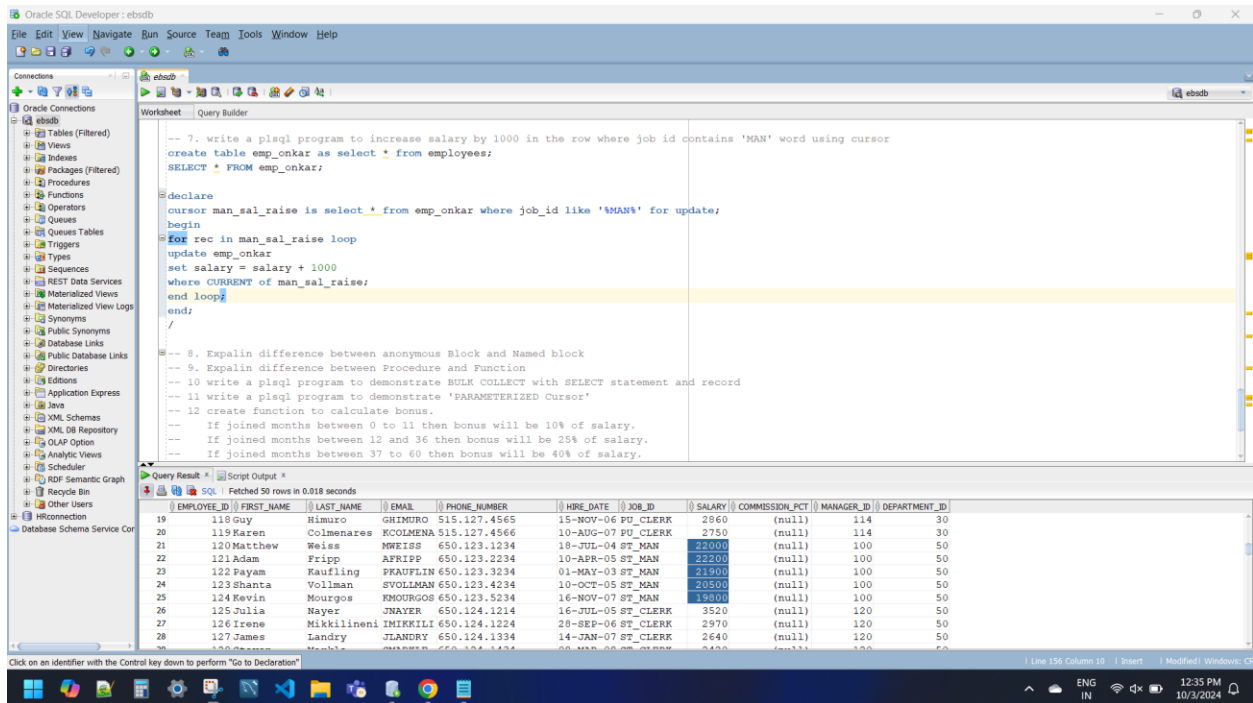
```
set salary = salary + 1000
```

```
where CURRENT of man_sal_raise;
```

```
end loop;
```

```
end;
```

```
/
```



-- 8. Explain difference between anonymous Block and Named block

--Anonymous Block:

--An anonymous block is a PL/SQL block without a name.

--It is generally used for temporary operations or operations that are not reused.

--It does not get stored in the database.

--It compiles again and again.

--Named Block:

--A named block is a PL/SQL block with a name, such as a procedure or a function.

--Named blocks are stored in the database and can be reused multiple times.

--Named blocks can accept parameters and return values.

--Named blocks can be invoked explicitly by their name.

--Compiles only once.

-- 9. Explain difference between Procedure and Function

--Procedure:

--A procedure is a named PL/SQL block that performs a specific task or set of actions.

--It may or may not return a value.

--Procedures can have input/output parameters but don't return a value explicitly.

--Return keyword is not necessary to use.

--In header return keyword is not mentioned.

--Function:

--A function is a named PL/SQL block that must return a value.

--It is typically used for calculations or operations that result in a specific value.

--Functions can also have input parameters, but they return a value using the RETURN keyword.

--Return keyword is must in function.

--In header return keyword is mentioned as a part of its syntax.

-- 10 write a plsql program to demonstrate BULK COLLECT with SELECT statement and record

create or replace procedure bulkcollect_onkar786(m_id in number) is

type nested_table is table of employees%rowtype;

nt nested_table;

begin

select * bulk collect into nt from employees where manager_id = m_id;

for i in 1..nt.count loop

DBMS_OUTPUT.PUT_LINE(nt(i).first_name);

end loop;

end;

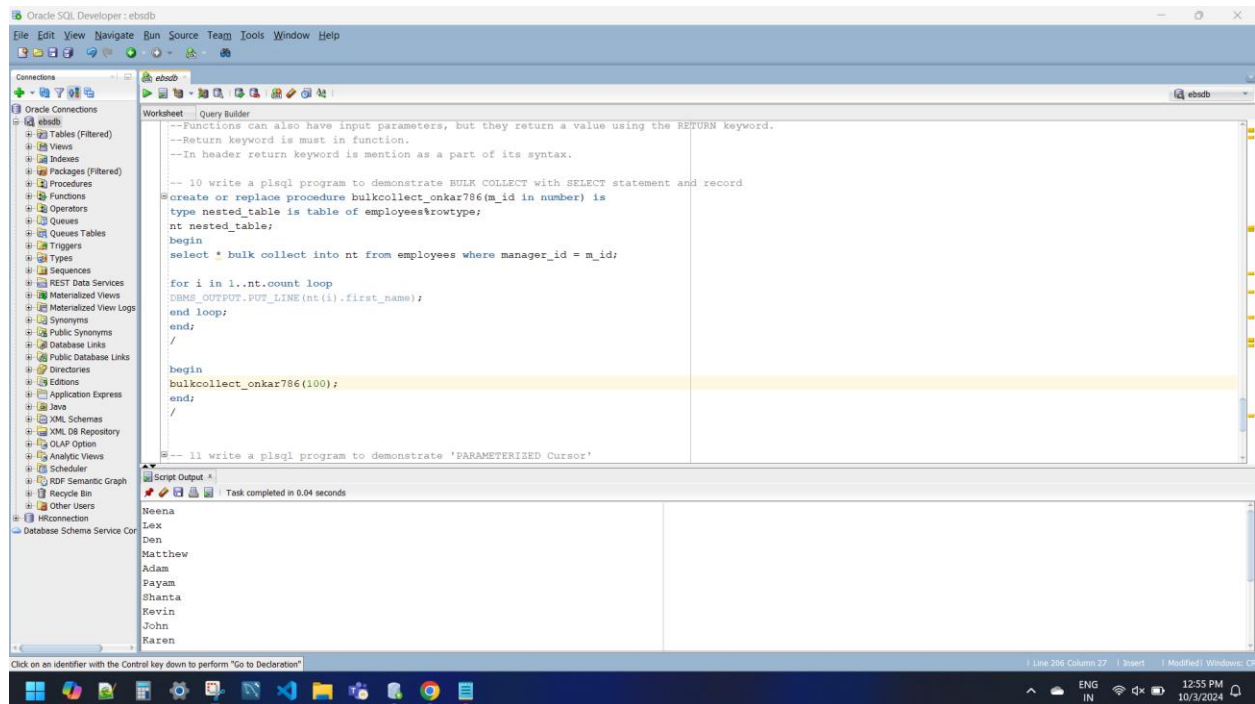
/

begin

bulkcollect_onkar786(100);

end;

/



-- 11 write a plsql program to demonstrate 'PARAMETERIZED Cursor'

declare

cursor e_details(m_id in number) is select * from employees WHERE manager_id = m_id;

```

rec employees%rowtype;

begin

open e_details(&m_id);

loop

exit when e_details%notfound;

fetch e_details into rec;

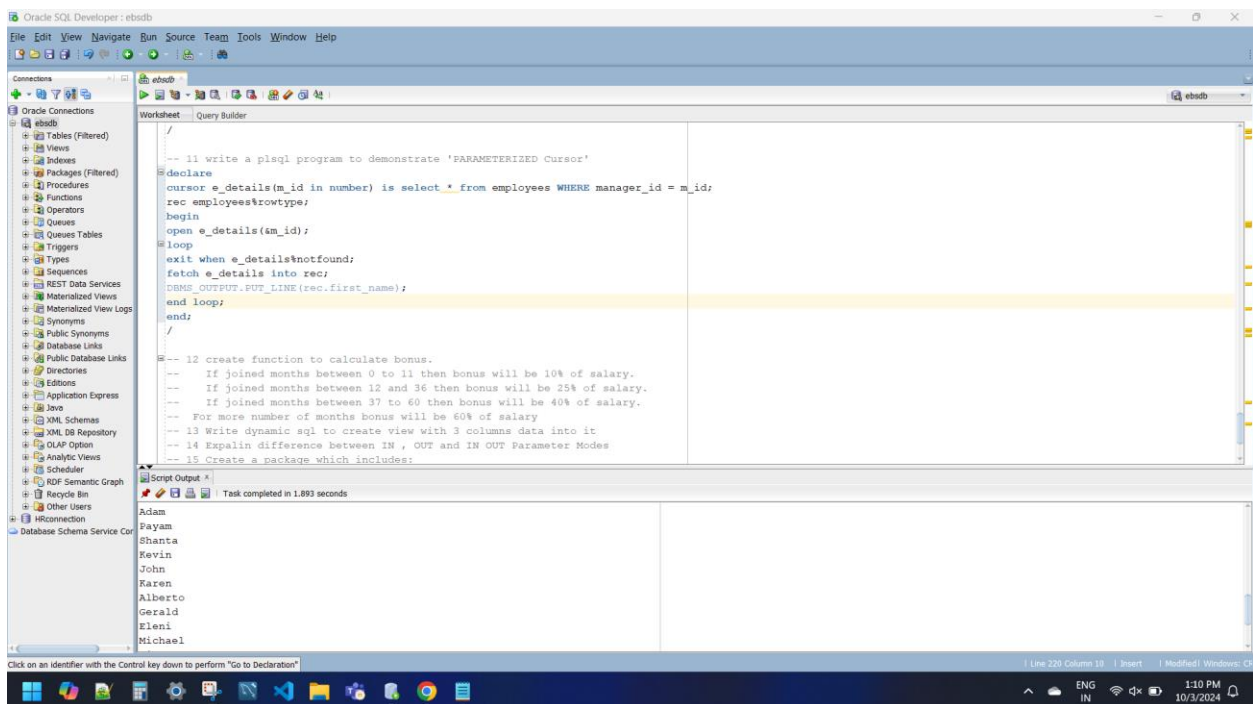
DBMS_OUTPUT.PUT_LINE(rec.first_name);

end loop;

end;

/

```



- 12 create function to calculate bonus.
- If joined months between 0 to 11 then bonus will be 10% of salary.
- If joined months between 12 and 36 then bonus will be 25% of salary.
- If joined months between 37 to 60 then bonus will be 40% of salary.

-- For more number of months bonus will be 60% of salary

create or replace function cal_bonus_onkar786(e_sal number, joined_months number)

return varchar2 is

r_sal number(10,2);

b_amount number(10,2);

r_Data varchar2(100);

begin

if joined_months between 0 and 11 then

b_amount := (e_sal*0.10);

r_Sal := (e_sal*0.10) + e_Sal;

elsif joined_months between 12 and 36 then

b_amount := (e_sal*0.25);

r_Sal := (e_sal*0.25) + e_Sal;

elsif joined_months between 37 and 60 then

r_Sal := (e_sal*0.40) + e_Sal;

b_amount := (e_sal*0.40);

else

r_Sal := (e_sal*0.60) + e_Sal;

b_amount := (e_sal*0.60);

end if;

r_Data := 'Employee salary : ' || e_Sal || ' | ' || 'Employee bonus : ' || b_amount || ' | ' ||

'Employee bonus salary : ' || r_sal;

return r_Data;

end;

/

```

declare

r_Data varchar2(100);

begin

r_Data := cal_bonus_onkar786(15000,0);

dbms_output.put_line(r_Data);

r_Data := cal_bonus_onkar786(15000,16);

dbms_output.put_line(r_Data);

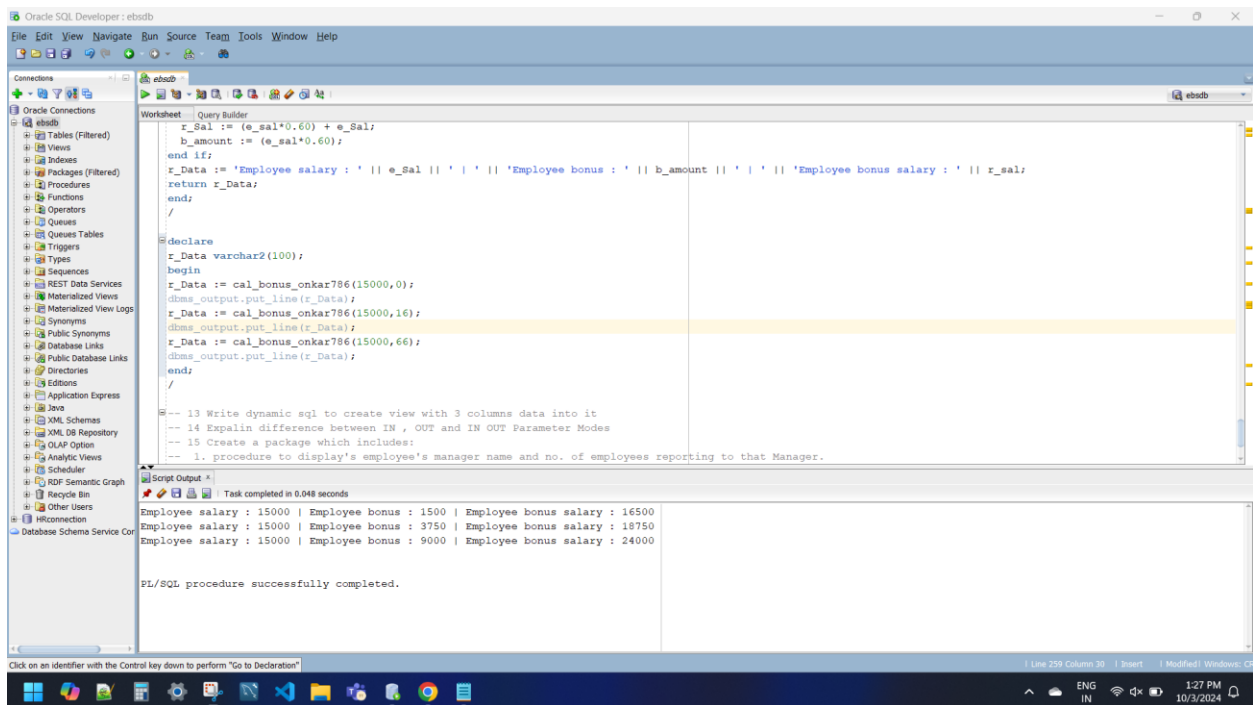
r_Data := cal_bonus_onkar786(15000,66);

dbms_output.put_line(r_Data);

end;

/

```



-- 13 Write dynamic sql to create view with 3 columns data into it

declare


```

r_Data varchar2(4000);

v_name varchar2(50) := 'viewme_onkar786';

employee_id varchar2(50) := 'employee_id';

first_name varchar2(50) := 'first_name';

salary varchar2(50) := 'salary';

begin

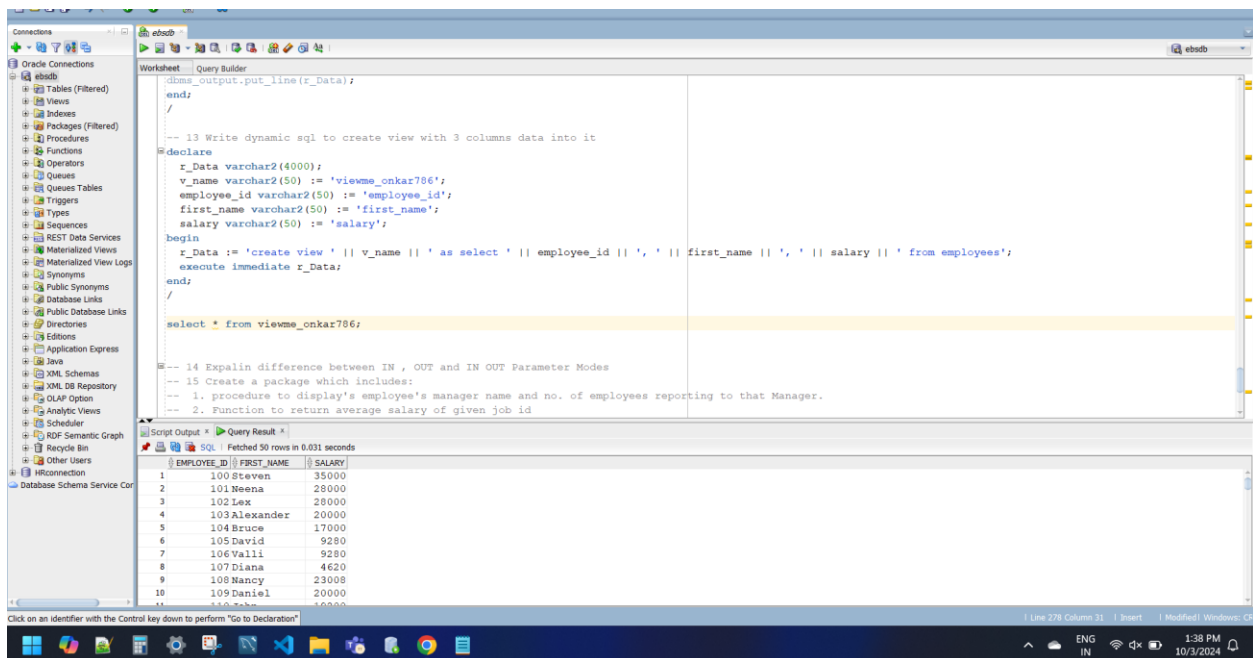
    r_Data := 'create view ' || v_name || ' as select ' || employee_id || ', ' || first_name || ', ' ||
    salary || ' from employees';

    execute immediate r_Data;

end;

/

```



```
select * from viewme_onkar786;
```

-- 14 Expalin difference between IN , OUT and IN OUT Parameter Modes

--IN Parameter Mode:

--The IN parameter is the default mode.

--The calling program passes the argument to the procedure or function.

--The procedure or function can only read the value but cannot modify it.

--IN parameters act like constants inside the procedure or function, and trying to modify them will result in an error.

--Can set default value.

--OUT Parameter Mode:

--An OUT parameter is initially treated as uninitialized within the procedure or function.

--The calling program does not pass a value instead, it receives the value after the procedure or function execution.

--The procedure or function must assign a value to the OUT parameter before exiting.

--It is not default mode.

--Cannot set default value.

--IN OUT Parameter Mode:

--It is not default mode.

--Cannot set default value.

--The calling program passes a value to the IN OUT parameter.

--The procedure or function can both read and modify the value.

--The modified value is then returned to the calling program when the procedure or function finishes.

-- 15 Create a package which includes:

-- 1. procedure to display's employee's manager name and no. of employees reporting to that Manager.

-- 2. Function to return average salary of given job id

-- 3. Procedure to rename any table

--rename emp_onkar to emp_onkar786;

create or replace package pkg_table_onkar is

procedure m_Details(e_id in number, m_name out varchar2, c_emp out number);

function avg_sal(j_id varchar2) return number;

procedure rename_table(t_name in varchar2, mt_name in varchar2);

end pkg_table_onkar;

/

CREATE OR REPLACE

PACKAGE BODY PKG_TABLE_ONKAR AS

procedure m_Details(e_id in number, m_name out varchar2, c_emp out number) AS

r_emp number(4);

BEGIN

select manager_id into r_emp from employees where employee_id = e_id;

select first_name into m_name from employees where employee_id = r_emp;

select count(*) "no of emp" into c_emp from employees group by manager_id;

END m_Details;

function avg_sal(j_id varchar2) return number AS

r_Data number(12,2);

```
BEGIN
```

```
    select avg(salary) into r_data from employees group by job_id having job_id = j_id;
```

```
    return r_data;
```

```
END avg_sal;
```

```
procedure rename_table(t_name in varchar2, mt_name in varchar2) AS
```

```
    r_data varchar2(100);
```

```
BEGIN
```

```
    r_data := 'rename table ' || t_name || ' to ' || mt_name;
```

```
    execute IMMEDIATE r_data;
```

```
END rename_table;
```

```
END PKG_TABLE_ONKAR;
```

```
/
```

```
declare
```

```
m_name varchar2(40);
```

```
c_emp number(10,2);
```

```
begin
```

```
pkg_table_onkar.m_details(125,m_name=>m_name,c_emp=>c_emp);
```

```
dbms_output.put_line(m_name || ' ' || c_emp);
```

```
end;
```

```
/
```

```
declare
```

```
R_dATA NUMBER(10,2);
```

```
begin
r_Data := pkg_table_onkar.avg_sal('IT_PROG');
dbms_output.put_line(r_data);
end;
/
```

```
begin
pkg_table_onkar.rename_table('emp_onkar4056','emphello_onkar');
end;
/
```

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```
dbms_output.put_line(m_name || ' ' || c_emp);
end;
/

declare
  r_data NUMBER(10,2);
begin
  r_data := pkg_table_onkar.avg_sal('IT_PROG');
  dbms_output.put_line(r_data);
end;
/

begin
  pkg_table_onkar.rename_table('emp_onkar4056','emphello_onkar');
end;
/

select * from emp_onkar786;

-- 16 Create a package which includes:
-- 1. Procedure to demonstrate Local Subprogram
-- 2. Function to return no. of employees working in the same department where given employee id employee works
-- 3. procedure to update phone number in this way [11]-(23)-(24)-(3599) using IN OUT Mode parameters
```

Script Output

Task completed in 0.054 seconds

done

PL/SQL procedure successfully completed.

PL/SQL compiled/saved

Line 364 Column 61 | Insert | Modified: Windows: CP

2:12 PM 10/3/2024

Oracle SQL Developer: ebsdb

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```
return r_data;
END avg_sal;

procedure rename_table(t_name in varchar2, mt_name in varchar2) AS
  r_data varchar2(100);
BEGIN
  r_data := 'rename table ' || t_name || ' to ' || mt_name;
  execute IMMEDIATE r_data;
END rename_table;

END PKG_TABLE_ONKAR;
/

declare
  m_name varchar2(40);
  c_emp number(10,2);
begin
  pkg_table_onkar.m_details(101,m_name=>m_name,c_emp=>c_emp);
  dbms_output.put_line(m_name || ' ' || c_emp);
end;
/

select count(*) "no of emp" from employees group by manager_id having manager_id = 100;
```

Script Output

Task completed in 0.06 seconds

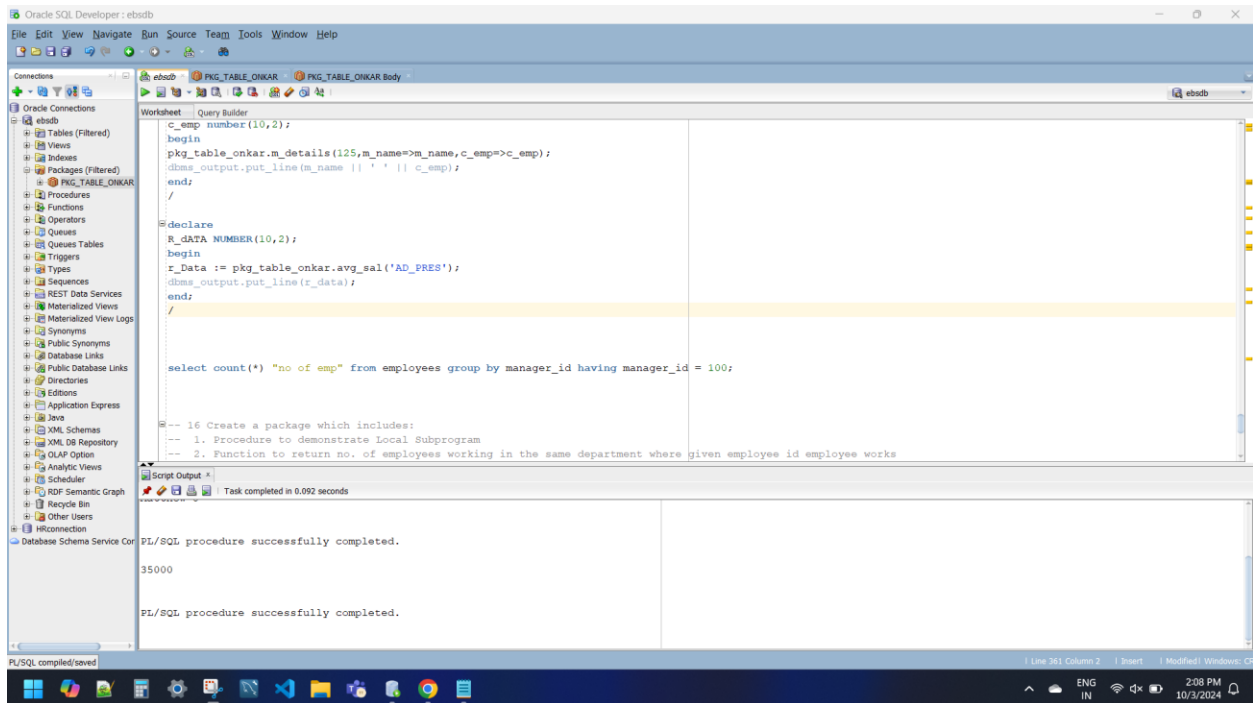
Steven 14

PL/SQL procedure successfully completed.

PL/SQL compiled/saved

Line 332 Column 5 | Insert | Modified: Windows: CP

2:06 PM 10/3/2024



-- 16 Create a package which includes:

-- 1. Procedure to demonstrate Local Subprogram

-- 2. Function to return no. of employees working in the same department where given employee id employee works

-- 3. procedure to update phone number in this way [11]-[23]-(24)-[3599] using IN OUT Mode parameters

create or replace package last_question_onkar is

procedure localsub_cal_tax(e_sal in number);

function no_of_emp_dept(e_id number) return number;

procedure modify_phone_no(p_no in out varchar2);

end;

/

CREATE OR REPLACE

PACKAGE BODY LAST_QUESTION_ONKAR AS

procedure localsub_cal_tax(e_Sal in number) AS

r_data number(10,2);

function tax(e_Sal number) return number is

r_sal number(10,2);

begin

if e_sal > 0 and e_sal < 10000 then

r_Sal := (e_sal * 0.10) + e_sal;

elsif e_sal > 10001 and e_sal < 20000 then

r_Sal := (e_sal * 0.20) + e_sal;

elsif e_sal > 20001 and e_sal < 30000 then

r_Sal := (e_sal * 0.30) + e_sal;

else

r_Sal := (e_sal * 0.50) + e_sal;

end if;

return r_sal;

end tax;

BEGIN

DBMS_OUTPUT.PUT_LINE('employee_salary is : ' || e_Sal);

r_data := tax(e_Sal);

DBMS_OUTPUT.PUT_LINE('employee_salary after tax is : ' || r_data);

END localsub_cal_tax;

function no_of_emp_dept(e_id number) return number AS

r_data number(10,2);


```

d_id number(4);

BEGIN

select department_id into d_id from employees where employee_id = e_id;

select count(*) into r_Data from employees group by department_id having department_id
= d_id;

return r_Data;

END no_of_emp_dept;

```

```

procedure modify_phone_no(p_no in out varchar2) AS

BEGIN

p_no := '[' || substr(p_no,1,2) || ']-[' || substr(p_no,3,2) || ']-[' || substr(p_no,5,2) || ']-[' ||
substr(p_no,7,4) || ']';

END modify_phone_no;

```

```

END LAST_QUESTION_ONKAR;

```

```

/

```

```

begin

last_question_onkar.localsub_cal_tax(15000);

end;

/

```

```

declare

r_Data number(10,2);

begin

r_Data := last_question_onkar.no_of_emp_dept(102);

```

```
dbms_output.put_line(r_Data);
```

```
end;
```

```
/
```

```
declare
```

```
p_no varchar2(100) := &phone_no;
```

```
begin
```

```
last_question_onkar.modify_phone_no(p_no=>p_no);
```

```
dbms_output.put_line(p_no);
```

```
end;
```

```
/
```

Oracle SQL Developer: ebsdb

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Worksheet Query Builder

```

begin
  last_question_onkar.localsub_cal_tax(15000);
end;
/

declare
  r_Data number(10,2);
begin
  r_Data := last_question_onkar.no_of_emp_dept(102);
  dbms_output.put_line(r_Data);
end;
/

declare
  p_no varchar2(100) := &phone_no;
begin
  last_question_onkar.modify_phone_no(p_no=>p_no);
  dbms_output.put_line(p_no);
end;
/

```

Script Output

Task completed in 3.225 seconds

```

begin
  last_question_onkar.modify_phone_no(p_no=>p_no);
  dbms_output.put_line(p_no);
end;
[93]--[24]--(46)--[4800]

PL/SQL procedure successfully completed.

```

PL/SQL compiled/saved

Line 439 Column 26 | Insert | Modified | Windows: CP

2:48 PM 10/3/2024

Oracle SQL Developer: ebsdb

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Worksheet Query Builder

```

select count(*) into r_Data from employees group by department_id having department_id = d_id;
return r_Data;
END no_of_emp_dept;

procedure modify_phone_no(p_no in out varchar2) AS
BEGIN
  p_no := ' ' || substr(p_no,1,2) || '-' || substr(p_no,3,2) || '-' || substr(p_no,5,2) || '-' || substr(p_no,7,4) || ' ';
END modify_phone_no;

END LAST_QUESTION_ONKAR;
/

declare
begin
  last_question_onkar.localsub_cal_tax(15000);
end;
/

```

Script Output

Task completed in 0.055 seconds

```

employee_salary is :15000
employee_salary after tax is :18000

PL/SQL procedure successfully completed.

```

PL/SQL compiled/saved

Line 425 Column 45 | Insert | Modified | Windows: CP

2:41 PM 10/3/2024

Oracle SQL Developer : ebsdb

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Worksheet Query Builder

```
p_no := '[' || substr(p_no,1,2) || '-' || substr(p_no,3,2) || '-' || substr(p_no,5,2) || '-' || substr(p_no,7,4) || ' ';  
END modify_phone_no;  
  
END LAST_QUESTION_ONKAR;  
/  
  
begin  
last_question_onkar.localsub_cal_tax(15000);  
end;  
/  
  
declare  
r_Data number(10,2);  
begin  
r_Data := last_question_onkar.no_of_emp_dept(102);  
dms_output.put_line(r_Data);  
end;  
/
```

Script Output

Task completed in 0.056 seconds

PL/SQL procedure successfully completed.

Click on an identifier with the Control key down to perform "Go to Declaration"

Line 431 Column 28 Insert Modified: Windows: CP

ENG IN 2:43 PM 10/3/2024