DBS311A Lab 7

1.

DECLARE

d\_name department.department\_name%type;

d\_location department.location\_id%type;

CURSOR d\_cursor(find VARCHAR)

IS

SELECT department\_name, location\_id FROM department WHERE department\_name LIKE find||'%';

BEGIN

OPEN d\_cursor('Z');

LOOP

FETCH d\_cursor INTO d\_name, d\_location;

IF(d\_cursor%ROWCOUNT = 0)

THEN

dbms\_output.put\_line('No department starts with the letter Z');

END IF;

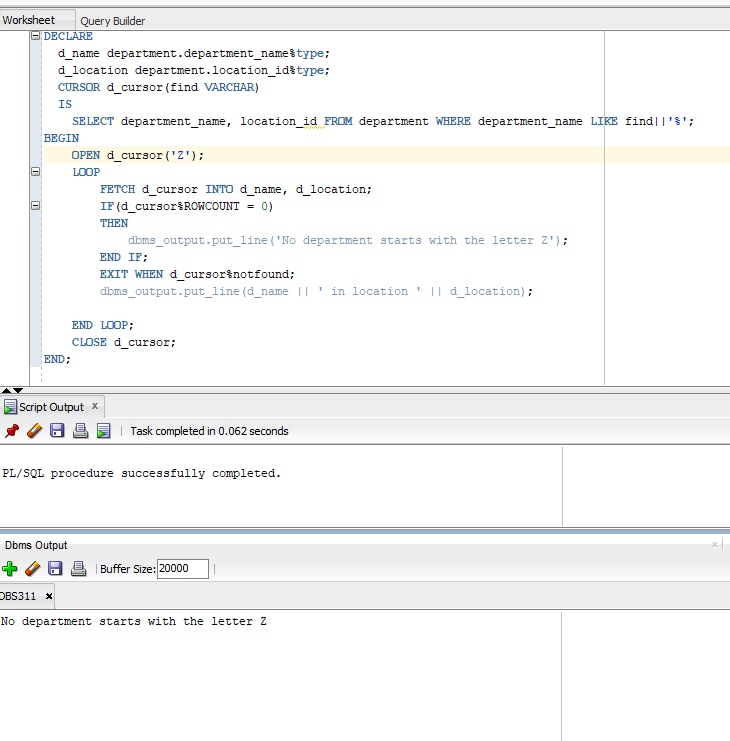
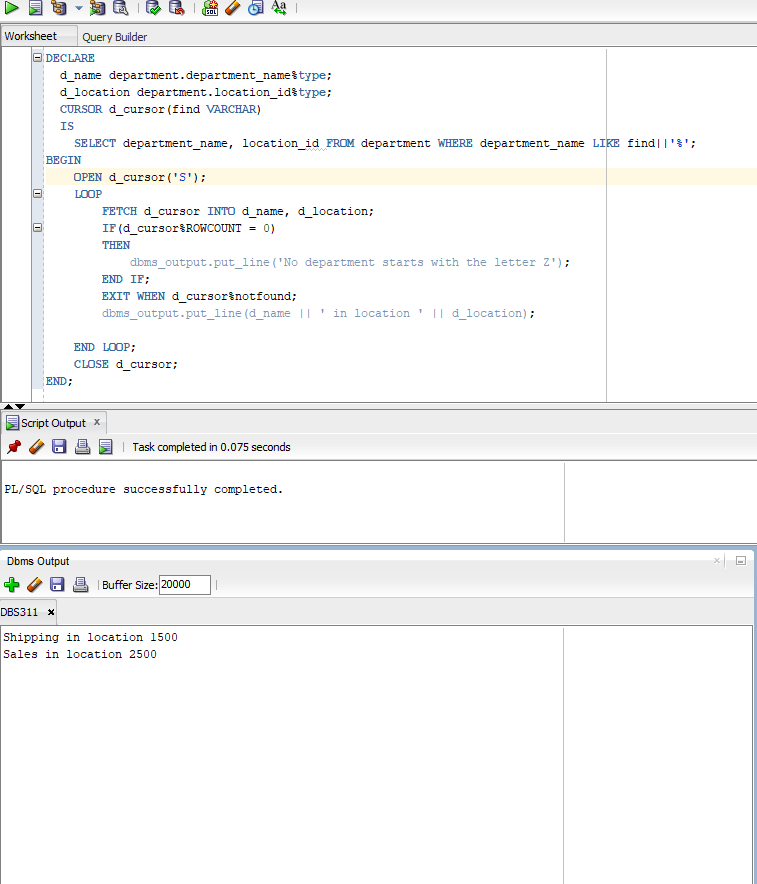
EXIT WHEN d\_cursor%notfound;

dbms\_output.put\_line(d\_name || ' in location ' || d\_location);

END LOOP;

CLOSE d\_cursor;

END;



2.

DECLARE

isFound boolean :=false;

CURSOR d\_cursor(find VARCHAR)

IS

SELECT department\_name, location\_id FROM department WHERE department\_name LIKE find||'%';

BEGIN

FOR department IN d\_cursor('S')

LOOP

isFound:=true;

dbms\_output.put\_line(department.department\_name || ' in location ' || department.location\_id);

END LOOP;

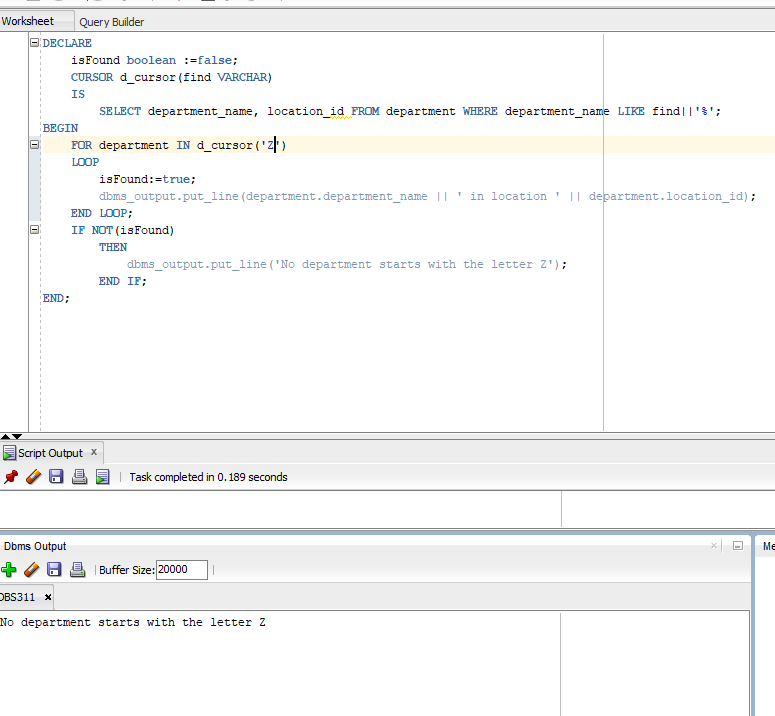
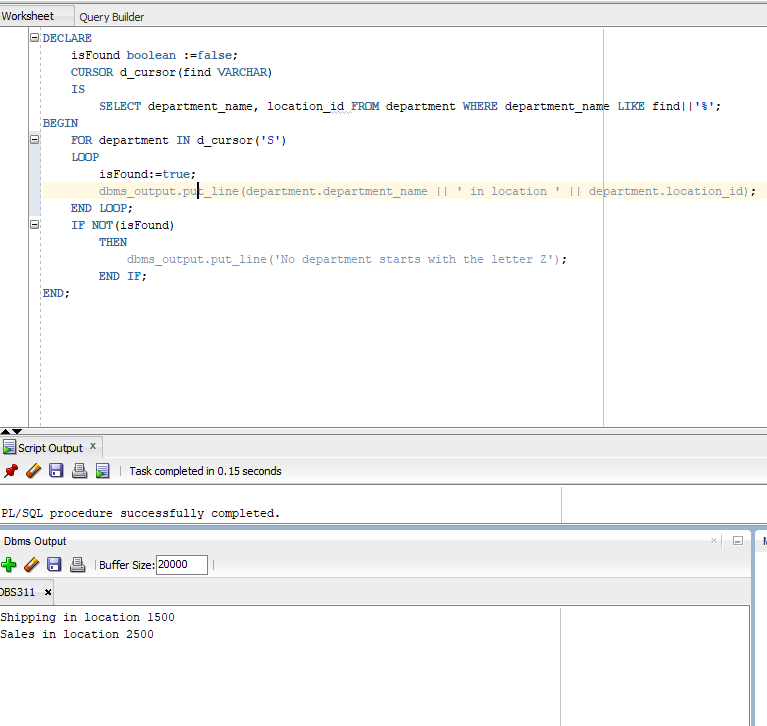
IF NOT(isFound)

THEN

dbms\_output.put\_line('No department starts with the letter Z');

END IF;

END;



3.

create or replace PROCEDURE SHOW\_DEPARTMENT\_BY\_CHARACTER(search VARCHAR)

IS

CURSOR d\_cursor

IS

SELECT department\_name, location\_id FROM department WHERE department\_name LIKE search||'%';

isFound boolean :=false;

BEGIN

FOR department IN d\_cursor

LOOP

isFound:=true;

dbms\_output.put\_line(department.department\_name || ' in location ' || department.location\_id);

END LOOP;

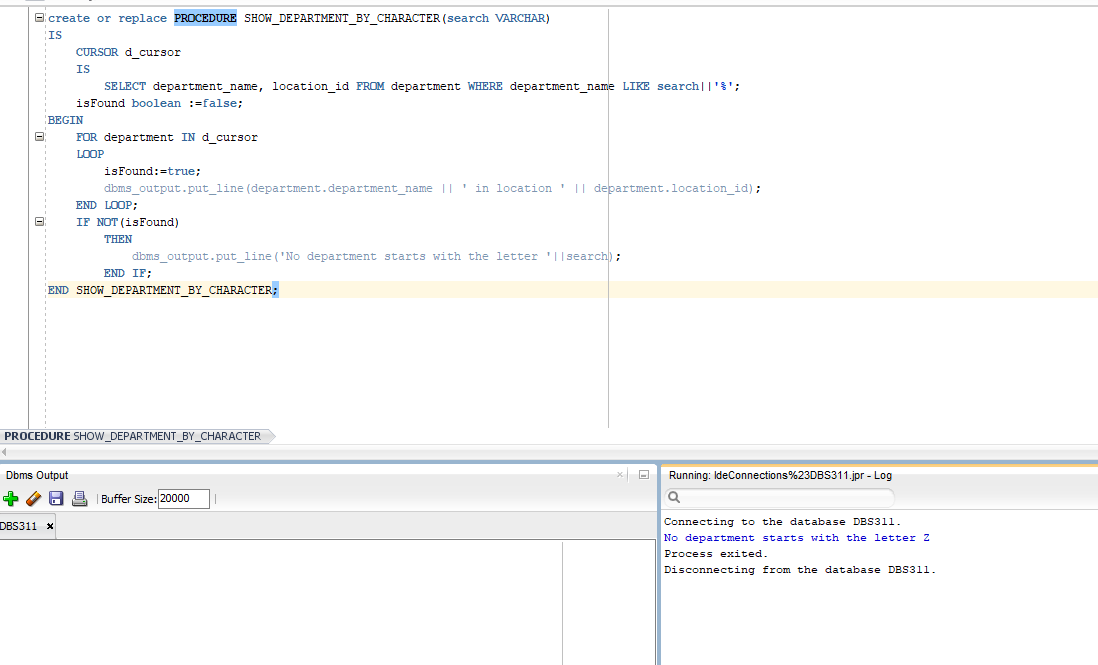
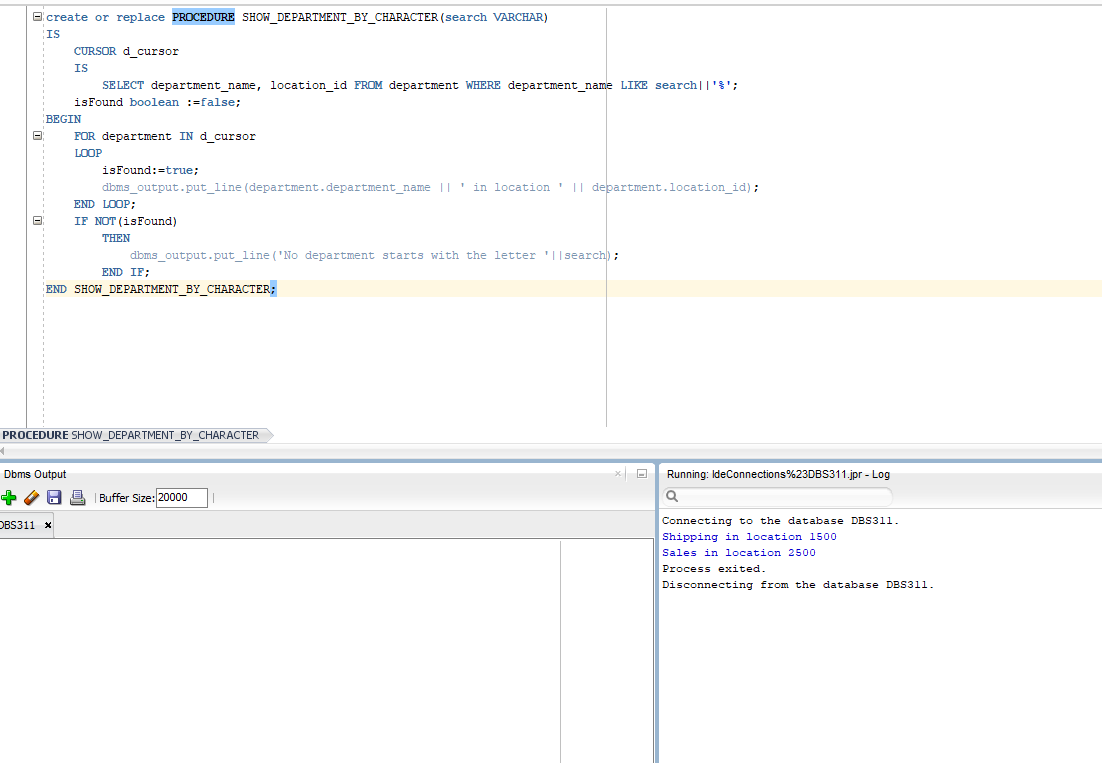
IF NOT(isFound)

THEN

dbms\_output.put\_line('No department starts with the letter '||search);

END IF;

END SHOW\_DEPARTMENT\_BY\_CHARACTER;

4.

DECLARE

l\_city location.city%type;

d\_name department.department\_name%TYPE;

d\_managerid department.manager\_id%TYPE;

status VARCHAR(45);

CURSOR find\_city\_cursor(search VARCHAR)

IS

SELECT department\_name, city, manager\_id FROM location LEFT JOIN department USING(location\_id) WHERE city LIKE search||'%' ORDER BY department\_name;

BEGIN

OPEN find\_city\_cursor('T');

LOOP

FETCH find\_city\_cursor INTO d\_name, l\_city, d\_managerid;

EXIT WHEN find\_city\_cursor%notfound;

IF(d\_managerid >= 100 AND d\_managerid <= 200)

THEN

status:='managed by one of the Senior Managers.';

ELSE

IF(d\_managerid IS NULL)

THEN

status:='without manager.';

ELSE

status:='NOT managed by one of the Senior Managers.';

END IF;

END IF;

IF(d\_name IS NOT NULL)

THEN

dbms\_output.put\_line('Department '||d\_name||' in a city named '||l\_city||' is '||status);

dbms\_output.put\_line('');

ELSE

dbms\_output.put\_line('There is NO Department in a city named '||l\_city);

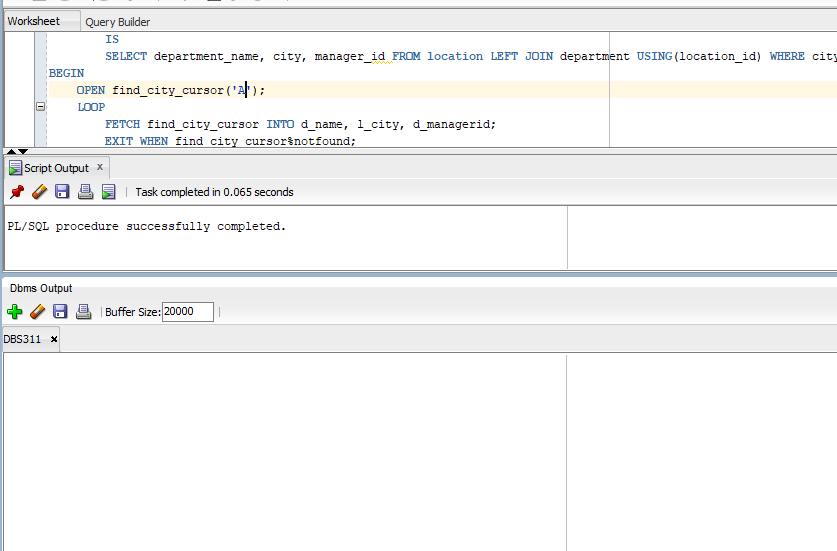
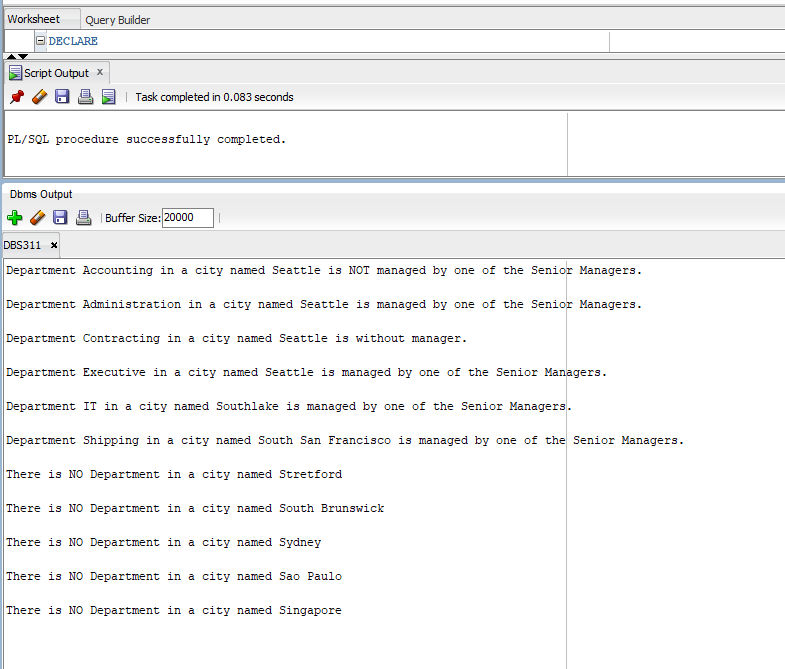
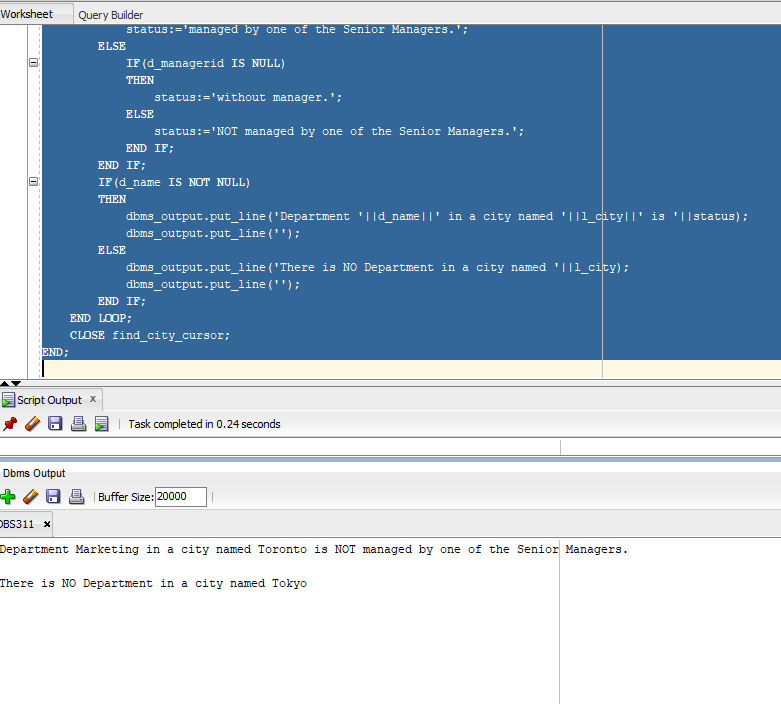
dbms\_output.put\_line('');

END IF;

END LOOP;

CLOSE find\_city\_cursor;

END;



5.

create or replace PROCEDURE FIND\_DEPARTMENT\_BY\_CITY(search VARCHAR)

IS

status VARCHAR(45);

CURSOR find\_city\_cursor

IS

SELECT department\_name, city, manager\_id FROM location LEFT JOIN department USING(location\_id) WHERE city LIKE search||'%' ORDER BY department\_name;

BEGIN

FOR city IN find\_city\_cursor

LOOP

IF(city.manager\_id >= 100 AND city.manager\_id <= 200)

THEN

status:='managed by one of the Senior Managers.';

ELSE

IF(city.manager\_id IS NULL)

THEN

status:='without manager.';

ELSE

status:='NOT managed by one of the Senior Managers.';

END IF;

END IF;

IF(city.department\_name IS NOT NULL)

THEN

dbms\_output.put\_line('Department '||city.department\_name||' in a city named '||city.city||' is '||status);

dbms\_output.put\_line(' ');

ELSE

dbms\_output.put\_line('There is NO Department in a city named '||city.city);

dbms\_output.put\_line(' ');

END IF;

END LOOP;

END FIND\_DEPARTMENT\_BY\_CITY;

