

Lab Exercise 7: Using Subqueries to Solve Queries.

By using SUBQUERY:

1. Retrieve all employees that have the same JOB_ID as Bissot but have the different salary.

```
SELECT last_name, job_id, salary
from employees
where job_id =
      (SELECT job_id
       FROM employees
       WHERE last_name = 'Bissot')

AND salary <> (SELECT salary
              FROM employees
              WHERE last_name = 'Bissot');
```

Script Output x Query Result x

SQL | All Rows Fetched: 18 in 0.004 seconds

	LAST_NAME	JOB_ID	SALARY
1	Nayer	ST_CLERK	3200
2	Mikkilineni	ST_CLERK	2700
3	Landry	ST_CLERK	2400
4	Markle	ST_CLERK	2200
5	Atkinson	ST_CLERK	2800

2. Find all the countries' name that reside in the same region as Germany.

```
SELECT country_name
from countries
where region_id =
      (SELECT region_id
       FROM countries
       WHERE country_name = 'Germany');
```

Script Output x Query Result x Query Result 1 x

SQL | All Rows Fetched: 8 in 0.002 seconds

	COUNTRY_NAME
1	Belgium
2	Switzerland
3	Germany
4	Denmark
5	France
6	Italy
7	Netherlands
8	United Kingdom

3. Display all of the employees that did not work as SA_CLERK but having the salary lower than all ST_MAN.

```
SELECT last_name, salary, job_id
from employees
where salary < all
      (select salary
       from employees
       where job_id = 'ST_MAN')
and job_id <> 'SA_CLERK';
```

Query Result x

SQL | All Rows Fetched: 49 in 0.006 seconds

	LAST_NAME	SALARY	JOB_ID
1	Pataballa	4800	IT_PROG
2	Austin	4800	IT_PROG
3	Whalen	4400	AD_ASST
4	Sarchand	4200	SH_CLERK
5	Lorentz	4200	IT_PROG
6	Bull	4100	SH_CLERK
7	Bell	4000	SH_CLERK
8	Everett	3900	SH_CLERK
9	Chung	3800	SH_CLERK
10

4. Retrieve all the employees in department 50 that have lower salary than any SH_CLERK.

```
SELECT last_name, salary, job_id
from employees
where salary < all
      (select salary
       from employees
       where job_id = 'ST_MAN')
and job_id <> 'SA_CLERK';
```

Query Result x

SQL | All Rows Fetched: 49 in 0.006 seconds

	LAST_NAME	SALARY	JOB_ID
1	Pataballa	4800	IT_PROG
2	Austin	4800	IT_PROG
3	Whalen	4400	AD_ASST
4	Sarchand	4200	SH_CLERK
5	Lorentz	4200	IT_PROG
6	Bull	4100	SH_CLERK
7	Bell	4000	SH_CLERK
8	Everett	3900	SH_CLERK
9	Chung	3800	SH_CLERK
10

5. Display all employees that have no supervisee. If it returns no result, explain the reason over that matter.

```
SELECT last_name, salary, manager_id
from employees
where employee_id < any
      (select manager_id
       from employees);
```

Query Result x

SQL | Fetched 50 rows in 0.006 seconds

	LAST_NAME	SALARY	MANAGER_ID
1	King	24000	(null)
2	Kochhar	17000	100
3	De Haan	17000	100

any insert null meanwhile all does not

```
SELECT last_name, salary, manager_id
from employees
where employee_id < all
      (select manager_id
       from employees);
```

Query Result x

SQL | All Rows Fetched: 0 in 0.003 seconds

	LAST_NAME	SALARY	MANAGER...
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