



TECNOLÓGICO NACIONAL DE MÉXICO

CAMPUS JEREZ

MATERIA: TALLER DE BASE DE DATOS

DOCENTE: ISC SALVADOR ACEVEDO SANDOVAL

5° SEMESTRE

TEMA 2: LENGUAJE DE MANIPULACIÓN DE DATOS

ACTIVIDAD 5: EJERCICIOS SQL - SUBCONSULTAS

ALUMNA: LIZA AREMY SANTANA CONTRERAS

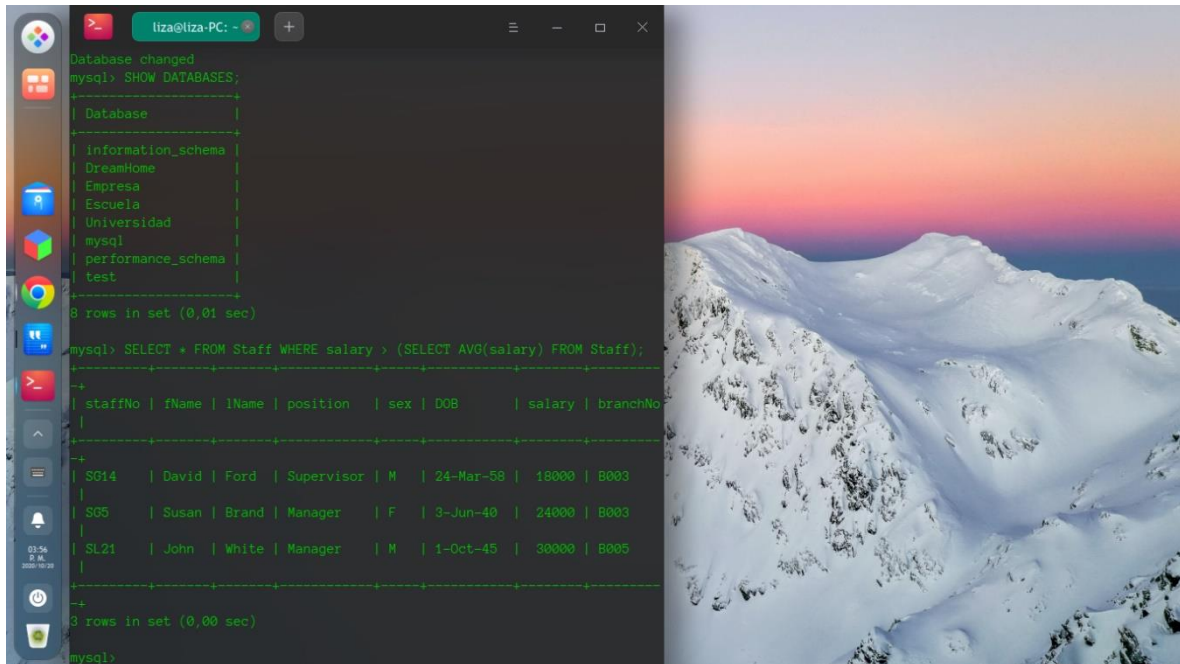
NO. CONTROL: 16070005

20 DE OCTUBRE DE 2020

JEREZ DE GARCIA SALINAS

DREAMHOME - MYSQL

1. Mostrar un listado con los empleados que ganen más del promedio salarial.



```
Database changed
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| DreamHome |
| Empresa |
| Escuela |
| Universidad |
| mysql |
| performance_schema |
| test |
+-----+
8 rows in set (0,01 sec)

mysql> SELECT * FROM Staff WHERE salary > (SELECT AVG(salary) FROM Staff);
+-----+
| staffNo | fName | lName | position | sex | DOB | salary | branchNo |
+-----+
| S014 | David | Ford | Supervisor | M | 24-Mar-58 | 18000 | B003 |
| S05 | Susan | Brand | Manager | F | 3-Jun-40 | 24000 | B003 |
| SL21 | John | White | Manager | M | 1-Oct-45 | 30000 | B005 |
+-----+
3 rows in set (0,00 sec)

mysql>
```

2. Generar un listado de todos los empleados cuyo salario sea superior al salario promedio, indicando cuál es la diferencia en cada caso con respecto al salario promedio.



```
mysql> SELECT staffNo, salary FROM Staff AS SalarioSuperior WHERE salary > (
SELECT AVG(salary) FROM Staff);
+-----+
| staffNo | salary |
+-----+
| S014 | 18000 |
| S05 | 24000 |
| SL21 | 30000 |
+-----+
3 rows in set (0,00 sec)

mysql>
```

3. Mostrar una lista de los propietarios que tengan más de dos propiedades



```
mysql> SELECT ownerNo, COUNT(ownerNo) FROM PropertyForRent GROUP BY ownerNo
HAVING (COUNT(ownerNo)>2);
+-----+
| ownerNo | COUNT(ownerNo) |
+-----+
| C087 | 2 |
| C093 | 2 |
+-----+
2 rows in set (0,00 sec)

mysql>
```

4. Mostrar una lista de las propiedades de Glasgow cuya renta sea mayor al promedio.

```
mysql> SELECT * FROM PropertyForRent WHERE rent > (SELECT AVG(rent) FROM PropertyForRent);
```

propertyNo	street	city	postcode	type	rooms	rent	ownerNo	staffNo	branchNo
PA14	16 Holhead	Aberdeen	AB7 5SU	House	6	650	CO46	SA9	B007
PG21	18 Dale Rd	Glasgow	G12	House	5	600	CO87	SG37	B003

2 rows in set (0,00 sec)

```
mysql>
```

5. Generar un listado con los inmuebles gestionados por los empleados que trabajan en la sucursal situada en '22 Deer Rd'

```
mysql> SELECT * FROM PropertyForRent WHERE staffNo IN (SELECT staffNo FROM Staff WHERE branchNo=(SELECT branchNo FROM Branch WHERE street='22 Deer Rd'));
```

propertyNo	street	city	postcode	type	rooms	rent	ownerNo	staffNo	branchNo
PL94	6 Argyll St	London	NW2	Flat	4	400	CO87	SL41	B005

1 row in set (0,00 sec)

```
mysql>
```

6. Mostrar quien gana más de los asistentes

```
mysql> SELECT * FROM Staff WHERE salary=(SELECT MAX(salary) FROM Staff WHERE position='Assistant');
```

staffNo	fName	lName	position	sex	DOB	salary	branchNo
SG37	Ann	Beech	Assistant	F	10-Nov-60	12000	B003

1 row in set (0,00 sec)

```
mysql>
```

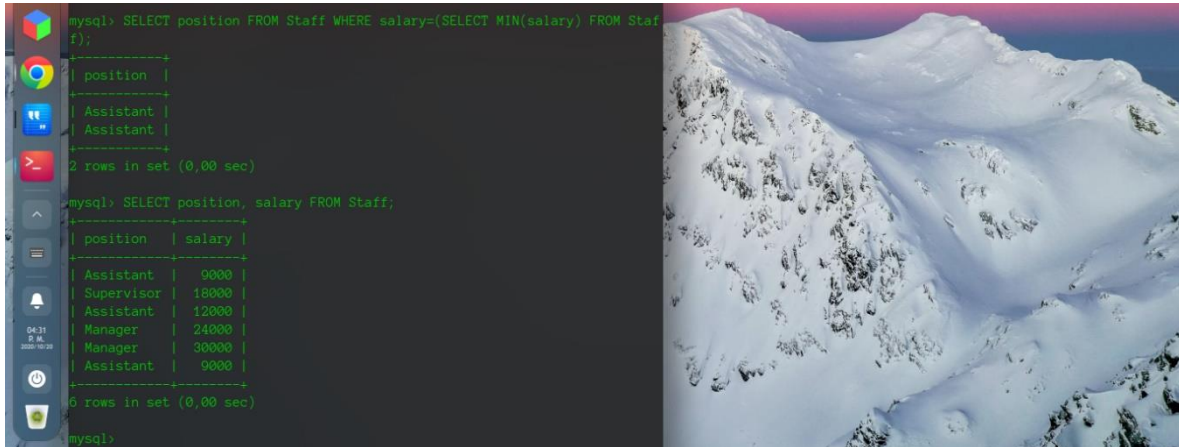
7. Mostrar que puesto gana más.

```
mysql> SELECT position FROM Staff WHERE salary=(SELECT MAX(salary) FROM Staff WHERE position='Assistant');
```

position
Manager

1 row in set (0,00 sec)

8. Mostrar que puesto gana menos.



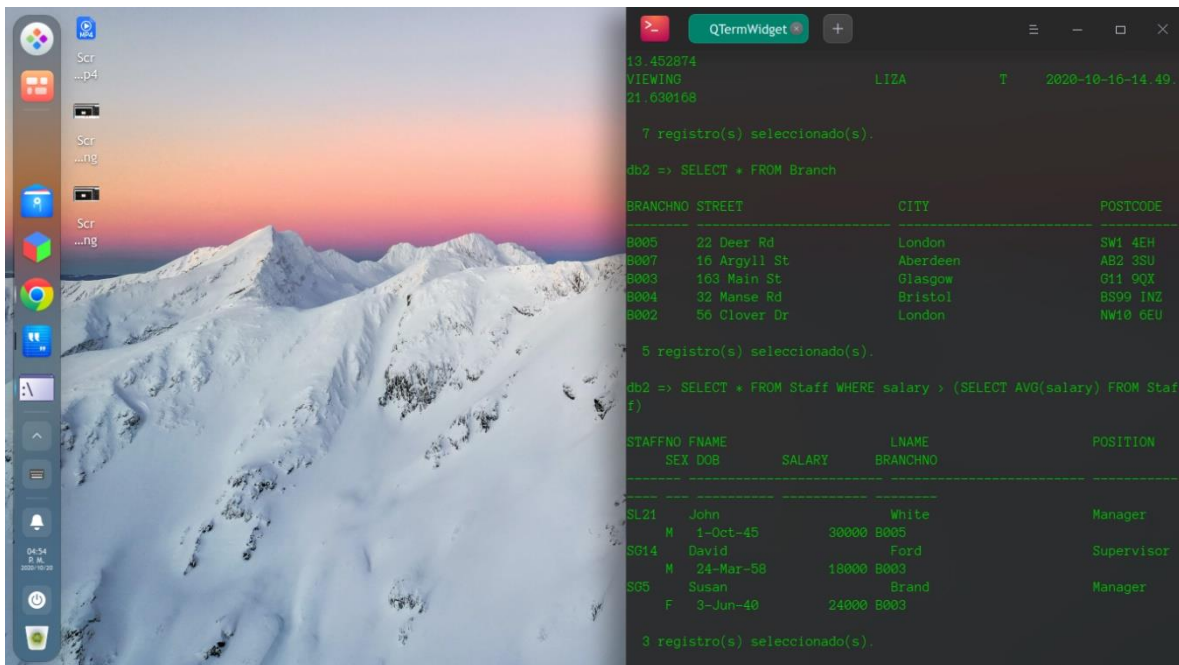
```
mysql> SELECT position FROM Staff WHERE salary=(SELECT MIN(salary) FROM Staff);
+-----+
| position |
+-----+
| Assistant |
| Assistant |
+-----+
2 rows in set (0,00 sec)

mysql> SELECT position, salary FROM Staff;
+-----+-----+
| position | salary |
+-----+-----+
| Assistant | 9000 |
| Supervisor | 18000 |
| Assistant | 12000 |
| Manager | 24000 |
| Manager | 30000 |
| Assistant | 9000 |
+-----+-----+
6 rows in set (0,00 sec)

mysql>
```

DREAMHOME – DB2

1. Mostrar un listado con los empleados que ganen más del promedio salarial.



```
QTermWidget
13.452874
VIEWING LIZA T 2020-10-16-14.49
21.630168

7 registro(s) seleccionado(s).

db2 => SELECT * FROM Branch
+-----+-----+-----+-----+
| BRANCHNO | STREET | CITY | POSTCODE |
+-----+-----+-----+-----+
| B005 | 22 Deer Rd | London | SW1 4EH |
| B007 | 16 Argyll St | Aberdeen | AB2 3SU |
| B003 | 103 Main St | Glasgow | G11 9QX |
| B004 | 32 Manse Rd | Bristol | BS99 1NZ |
| B002 | 56 Clover Dr | London | NW10 6EU |
+-----+-----+-----+-----+
5 registro(s) seleccionado(s).

db2 => SELECT * FROM Staff WHERE salary > (SELECT AVG(salary) FROM Staff)
+-----+-----+-----+-----+-----+
| STAFFNO | FNAME | LNAME | SALARY | BRANCHNO | POSITION |
+-----+-----+-----+-----+-----+
| SL21 | John | White | 30000 | B005 | Manager |
| SG14 | David | Ford | 18000 | B003 | Supervisor |
| SG5 | Susan | Brand | 24000 | B003 | Manager |
+-----+-----+-----+-----+-----+
3 registro(s) seleccionado(s).
```


2. Generar un listado de todos los empleados cuyo salario sea superior al salario promedio, indicando cuál es la diferencia en cada caso con respecto al salario promedio.



```
db2 => SELECT staffNo, salary FROM Staff AS SalarioSuperior WHERE salary > (SELECT AVG(salary) FROM Staff)
```

STAFFNO	SALARY
SL21	30000
SG14	18000
SG5	24000

3 registro(s) seleccionado(s).

3. Mostrar una lista de los propietarios que tengan más de dos propiedades.

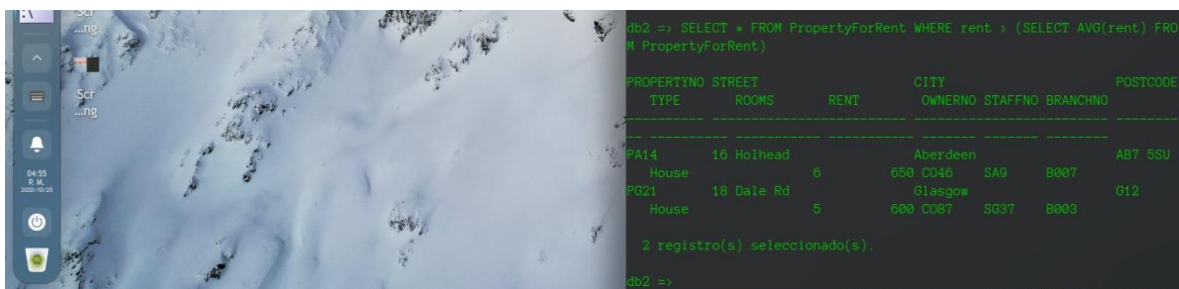


```
db2 => SELECT ownerNo, COUNT(ownerNo) FROM PropertyForRent GROUP BY ownerNo HAVING (COUNT(ownerNo)=2)
```

OWNERNO	2
C087	2
C093	2

2 registro(s) seleccionado(s).

4. Mostrar una lista de las propiedades de Glasgow cuya renta sea mayor al promedio.

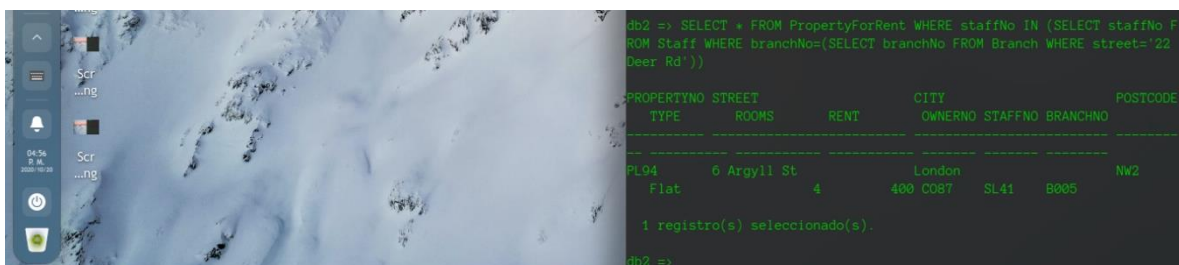


```
db2 => SELECT * FROM PropertyForRent WHERE rent > (SELECT AVG(rent) FROM PropertyForRent)
```

PROPERTYNO	STREET	ROOMS	RENT	CITY	OWNERNO	STAFFNO	BRANCHNO	POSTCODE
PA14	16 Holhead	6	650	Aberdeen	CD46	SA9	B007	A87 5SU
PG21	18 Dale Rd	5	600	Glasgow	C087	SG37	B003	G12

2 registro(s) seleccionado(s).

5. Generar un listado con los inmuebles gestionados por los empleados que trabajan en la sucursal situada en '22 Deer Rd'.



```
db2 => SELECT * FROM PropertyForRent WHERE staffNo IN (SELECT staffNo FROM Staff WHERE branchNo=(SELECT branchNo FROM Branch WHERE street='22 Deer Rd'))
```

PROPERTYNO	STREET	ROOMS	RENT	CITY	OWNERNO	STAFFNO	BRANCHNO	POSTCODE
PL94	6 Argyll St	4	400	London	C087	SL41	B005	NW2

1 registro(s) seleccionado(s).

6. Mostrar quien gana más de los asistentes.



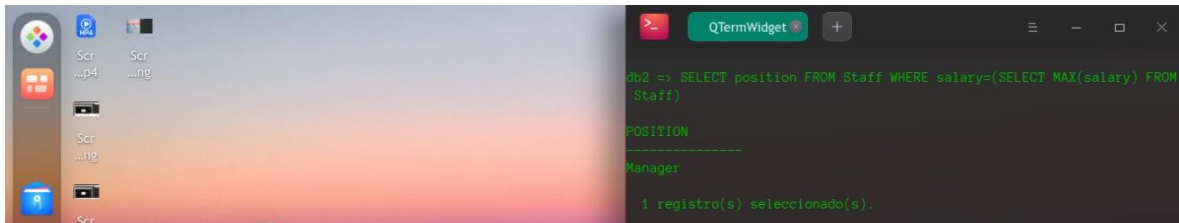
```
db2 => SELECT * FROM Staff WHERE salary=(SELECT MAX(salary) FROM Staff
WHERE position='Assistant')

STAFFNO FNAME          LNAME          POSITION
SEX DOB          SALARY          BRANCHNO
-----
SG37    Ann            Beech          Assistant
F 10-Nov-00      12000 B003

1 registro(s) seleccionado(s).

db2 =>
```

7. Mostrar que puesto gana más.

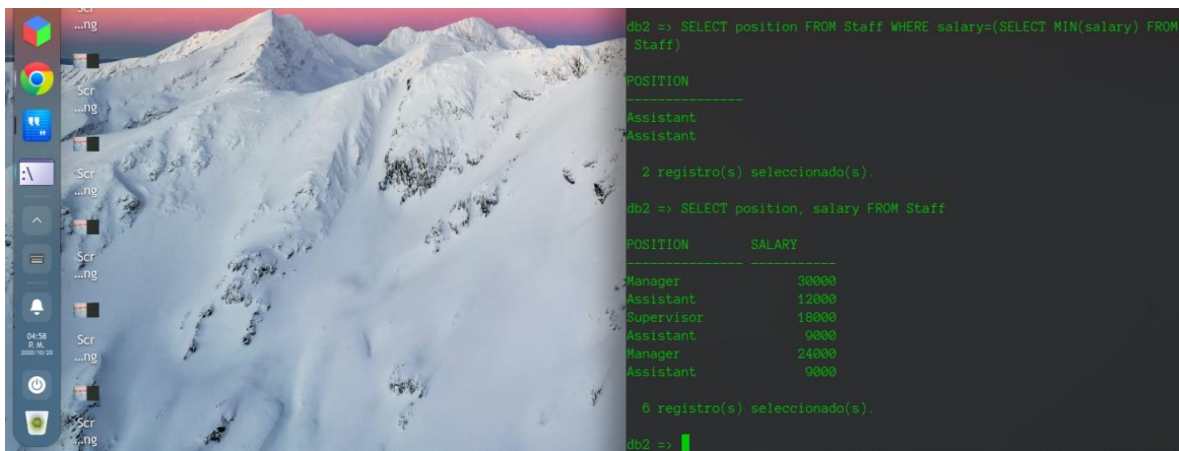


```
db2 => SELECT position FROM Staff WHERE salary=(SELECT MAX(salary) FROM
Staff)

POSITION
-----
Manager

1 registro(s) seleccionado(s).
```

8. Mostrar que puesto gana menos.



```
db2 => SELECT position FROM Staff WHERE salary=(SELECT MIN(salary) FROM
Staff)

POSITION
-----
Assistant
Assistant

2 registro(s) seleccionado(s).

db2 => SELECT position, salary FROM Staff

POSITION          SALARY
-----
Manager           30000
Assistant          12000
Supervisor        18000
Assistant          9000
Manager           24000
Assistant          9000

6 registro(s) seleccionado(s).

db2 =>
```