



INSTITUTO TECNOLÓGICO SUPERIOR DE JEREZ

INGENIERÍA EN SISTEMAS COMPUTACIONALES

5to Semestre

Fecha de entrega: 23/10/2020

Actividad 2: Ejercicios SQL [Subconsultas].

Tema 2: Lenguaje de manipulación de datos.

Materia: Taller de Base de Datos.

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Subconsultas generadas en MySQL con la Base de Datos Dreamhome

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

```

C:\WINDOWS\system32\CMD.exe - mysql -u root -p
Microsoft Windows [Versión 10.0.18363.1139]
(c) 2019 Microsoft Corporation. Todos los derechos reservados.

C:\Users\marin>mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 19
Server version: 8.0.19 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use dreamhome;
Database changed
mysql> SELECT staffNo as Numero_Cliente, fName as Nombre, lName as Apellido, position as Puesto
-> FROM Staff WHERE Salary > (SELECT AVG(salary) FROM Staff);
+-----+-----+-----+-----+
| Numero_Cliente | Nombre | Apellido | Puesto |
+-----+-----+-----+-----+
| SG14           | David  | Ford     | Supervisor |
| SG5            | Susan  | Brand    | Manager |
| SL21           | John   | White    | Manager |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

```

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 Numero_Cliente, fName as Nombre, lName Apellido, Salary - COUNT(Salary) as Diferencia_Salario, position as Puesto
-> FROM Staff WHERE Salary > (SELECT AVG(salary) FROM Staff);
+-----+-----+-----+-----+-----+
| Numero_Cliente | Nombre | Apellido | Diferencia_Salario | Puesto |
+-----+-----+-----+-----+-----+
| SG14           | David  | Ford     | 17997              | Supervisor |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

```

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

```

mysql> SELECT *
-> FROM PrivateOwner
-> WHERE ownerNo in
-> (SELECT ownerNo FROM PropertyForRent GROUP BY ownerNo HAVING COUNT(ownerNo) > 1);
+-----+-----+-----+-----+-----+
| ownerNo | fName | lName | address | telNo |
+-----+-----+-----+-----+-----+
| C087    | Carol | Farrel | 6 Archray St, Glasgow G32 9DX | 1413577419 |
| C093    | Tony  | Shaw   | 12 Park Pl, Glasgow G4 0QR | 1412257025 |
+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)

```

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) AND City = 'Glasgow';
```

propertyNo	street	city	postcode	type	rooms	rent	ownerNo	staffNo	branchNo
PG21	18 Dale Rd	Glasgow	G12	House	5	600	C087	SG37	B003

```
1 row in set (0.00 sec)
```

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 branchNo IN (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	C087	SL41	B005

```
1 row in set (0.02 sec)
```

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)
```

7. Mostrar que puesto gana más.

```
mysql> SELECT position Puesto_Que_Gana_Mas FROM staff WHERE salary = (SELECT MAX(salary) FROM staff);
```

Puesto_Que_Gana_Mas
Manager

```
1 row in set (0.00 sec)
```

8. Mostrar que puesto gana menos.

```
mysql> SELECT position Puesto_Que_Gana_Menos FROM staff WHERE salary = (SELECT MIN(salary) FROM staff);
```

Puesto_Que_Gana_Menos
Assistant
Assistant

```
2 rows in set (0.00 sec)
```

Subconsultas generadas en PostgreSQL con la Base de Datos Dreamhome

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

dreamhome/postgres@PostgreSQL 13

Query Editor Query History

```

1 SELECT staff_no as Numero_Cliente, f_name as Nombre, l_Name as Apellido, position as Puesto
2 FROM Staff WHERE Salary > (SELECT AVG(salary) FROM Staff);

```

Data Output Explain Messages Notifications

	numero_cliente character (6)	nombre character varying (30)	apellido character varying (30)	puesto character varying (20)
1	SL21	John	White	Manager
2	SG14	David	Ford	Supervisor
3	SG5	Susan	Brand	Manager

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

dreamhome/postgres@PostgreSQL 13

Query Editor Query History

```

1 SELECT *
2 FROM privateowner
3 WHERE owner_no in
4 (SELECT owner_no FROM propertyforrent GROUP BY owner_no HAVING COUNT(owner_no) > 1);
5

```

Data Output Explain Messages Notifications

	owner_no [PK] character (10)	f_name character varying (30)	l_Name character varying (30)	address character varying (50)	tel_No character varying (15)
1	C087	Carol	Farrel	6 Archray St, Glasgow G32 9...	1413577419
2	C093	Tony	Shaw	12 Park Pl, Glasgow G4 0QR	1412257025

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

dreamhome/postgres@PostgreSQL 13

Query Editor Query History

```
1 SELECT * FROM propertyforrent WHERE rent > (SELECT AVG(rent) FROM propertyforrent) AND city = 'Glasgow';
```

Data Output Explain Messages Notifications

	propertyno [PK] character (10)	street character varying (30)	city character varying (30)	postcode character varying (30)	ttype character varying (10)	rooms integer	rent integer	owner_no character (10)	staff_no character (10)
1	PG21	18 Dale Rd	Glasgow	G12	House		5 600	CO87	SG37

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

dreamhome/postgres@PostgreSQL 13

Query Editor Query History

```
1 SELECT * FROM propertyforrent WHERE branch_no IN (SELECT branch_no FROM branch WHERE street = '22 Deer Rd');
```

Data Output Explain Messages Notifications

	propertyno [PK] character (10)	street character varying (30)	city character varying (30)	postcode character varying (30)	ttype character varying (10)	rooms integer	rent integer	owner_no character (10)	staff_no character (10)

6. Mostrar quien gana más de los asistentes.

dreamhome/postgres@PostgreSQL 13


Query Editor Query History

```
1 SELECT * FROM staff WHERE salary = (SELECT MAX(salary) FROM staff WHERE pposition = 'Assistant');
```

Data Output Explain Messages Notifications

	staff_no [PK] character (6)	f_name character varying (30)	l_name character varying (30)	pposition character varying (20)	sex character varying (2)	dob character varying (30)	salary integer	branch_no character (10)
1	SG37	Ann	Beech	Assistant	F	10-Nov-60	12000	B003

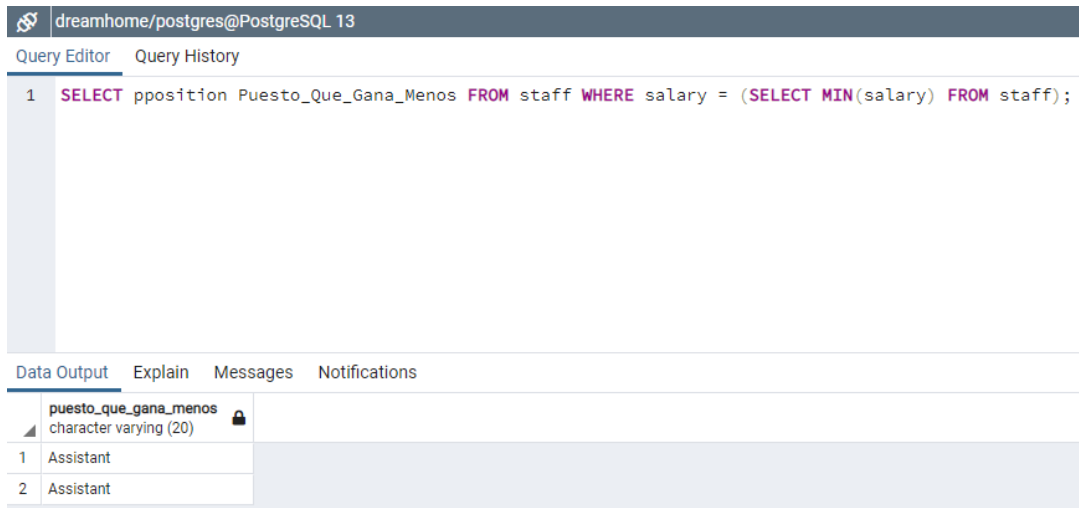
7. Mostrar que puesto gana más.



The screenshot shows a PostgreSQL Query Editor interface. The title bar indicates the connection is to 'dreamhome/postgres@PostgreSQL 13'. The 'Query Editor' tab is active, displaying a SQL query: `1 SELECT pposition Puesto_Que_Gana_Mas FROM staff WHERE salary = (SELECT MAX(salary) FROM staff);`. Below the query editor, the 'Data Output' tab is selected, showing a table with one row. The table has a column named 'puesto_que_gana_mas' of type 'character varying (20)'. The single row contains the value 'Manager'.

	puesto_que_gana_mas character varying (20)
1	Manager

8. Mostrar que puesto gana menos.



The screenshot shows a PostgreSQL Query Editor interface. The title bar indicates the connection is to 'dreamhome/postgres@PostgreSQL 13'. The 'Query Editor' tab is active, displaying a SQL query: `1 SELECT pposition Puesto_Que_Gana_Menos FROM staff WHERE salary = (SELECT MIN(salary) FROM staff);`. Below the query editor, the 'Data Output' tab is selected, showing a table with two rows. The table has a column named 'puesto_que_gana_menos' of type 'character varying (20)'. The two rows contain the values 'Assistant' and 'Assistant'.

	puesto_que_gana_menos character varying (20)
1	Assistant
2	Assistant