



INSTITUTO TECNOLÓGICO SUPERIOR DE JEREZ

INGENIERÍA EN SISTEMAS COMPUTACIONALES

5to Semestre

Fecha de entrega: 02/10/2020

Actividad 1: Ejercicios SQL [Consultas simples].

Tema 2: Lenguaje de manipulación de datos.

Materia: Taller de Base de Datos.

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Elaborar las consultas SQL que se piden a continuación, utilizando la base de datos DREAMHOME:

1. Mostrar las sucursales ubicadas en Londres
2. Mostrar los datos de la sucursal B003
3. Mostrar Nombre, Apellido y salario de las mujeres
4. Mostrar Calle, ciudad, Tipo y numero de propiedad de las propiedades que sean casas
5. Mostrar Ciudad, cantidad de habitaciones y precio de renta de las propiedades ubicadas en Glasgow
6. Mostrar todos los empleados que no sean Supervisores
7. Crear una lista con el salario diario de todos los empleados
8. Mostrar una lista con los salarios de todos los empleados aumentado un 8.04%
9. Mostrar una lista con los salarios de todos los empleados que sean asistentes aumentados un 8%
10. Mostrar una lista con los salarios de las mujeres decremento un 9.07%

Lo siguiente es hecho en el Gestor de Base de Datos MySQL

1.

```
C:\WINDOWS\system32\CMD.exe - mysql -u root -p
Server version: 8.0.19 MySQL Community Server - GPL
Copyright (c) 2000, 2020, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> Use Dreamhome;
Database changed
mysql> SELECT * FROM PropertyForRent WHERE city = 'London';
```

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 (0.00 sec)
```

2.

```
C:\WINDOWS\system32\CMD.exe - mysql -u root -p
Database changed
mysql> SELECT * FROM PropertyForRent WHERE city = 'London';
```

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 (0.00 sec)

mysql> SELECT * FROM PropertyForRent WHERE BranchNo = 'B003';
```

propertyNo	street	city	postcode	type	rooms	rent	ownerNo	staffNo	branchNo
PG16	5 Novar Dr	Glasgow	G12 9AX	Flat	4	450	C093	SG14	B003
PG21	18 Dale Rd	Glasgow	G12	House	5	600	C087	SG37	B003
PG36	2 Manor Rd	Glasgow	G32 4QX	Flat	3	375	C093	SG37	B003
PG4	6 Lawrance St	Glasgow	G11 9QX	Flat	3	350	C040	SL41	B003

```
4 rows in set (0.01 sec)

mysql>
```

3.

```
C:\WINDOWS\system32\CMD.exe - mysql -u root -p

+-----+-----+-----+-----+-----+-----+-----+-----+
| staffNo | fName | lName | position | sex | DOB       | salary | branchNo |
+-----+-----+-----+-----+-----+-----+-----+-----+
| SA9     | Mary  | Howe  | Assistant | F   | 19-Feb-70 | 9000   | B007     |
| SG37    | Ann   | Beech | Assistant | F   | 10-Nov-60 | 12000  | B003     |
| SG5     | Susan | Brand | Manager   | F   | 3-Jun-40  | 24000  | B003     |
| SL41    | Julie | Lee   | Assistant | F   | 13-Jun-65 | 9000   | B005     |
+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> SELECT fName, lName, salary FROM Staff Where sex = 'F';
+-----+-----+-----+
| fName | lName | salary |
+-----+-----+-----+
| Mary  | Howe  | 9000   |
| Ann   | Beech | 12000  |
| Susan | Brand | 24000  |
| Julie | Lee   | 9000   |
+-----+-----+-----+
4 rows in set (0.00 sec)

mysql>
```

4.

```
C:\WINDOWS\system32\CMD.exe - mysql -u root -p

+-----+-----+-----+
| fName | lName | salary |
+-----+-----+-----+
| Mary  | Howe  | 9000   |
| Ann   | Beech | 12000  |
| Susan | Brand | 24000  |
| Julie | Lee   | 9000   |
+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> SELECT street, city, type, postcode FROM PropertyForRent Where type = 'House';
+-----+-----+-----+-----+
| street   | city      | type  | postcode |
+-----+-----+-----+-----+
| 16 Holhead | Aberdeen | House | AB7 5SU  |
| 18 Dale Rd | Glasgow  | House | G12      |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

5.

```
mysql> SELECT city, rooms, rent FROM PropertyForRent Where city = 'Glasgow';
+-----+-----+-----+
| city    | rooms | rent |
+-----+-----+-----+
| Glasgow | 4     | 450  |
| Glasgow | 5     | 600  |
| Glasgow | 3     | 375  |
| Glasgow | 3     | 350  |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

6.

```
mysql> SELECT * FROM Staff Where Position != 'Supervisor';
+-----+-----+-----+-----+-----+-----+-----+-----+
| staffNo | fName | lName | position | sex | DOB       | salary | branchNo |
+-----+-----+-----+-----+-----+-----+-----+-----+
| SA9     | Mary  | Howe  | Assistant | F   | 19-Feb-70 | 9000   | B007     |
| SG37    | Ann   | Beech | Assistant | F   | 10-Nov-60 | 12000  | B003     |
| SG5     | Susan | Brand | Manager   | F   | 3-Jun-40  | 24000  | B003     |
| SL21    | John  | White | Manager   | M   | 1-Oct-45  | 30000  | B005     |
| SL41    | Julie | Lee   | Assistant | F   | 13-Jun-65 | 9000   | B005     |
+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)
```

7.

```
mysql> SELECT salary FROM Staff;
```

```
+-----+
| salary |
+-----+
| 9000   |
| 18000  |
| 12000  |
| 24000  |
| 30000  |
| 9000   |
+-----+
6 rows in set (0.00 sec)

mysql>
```

8.

```
mysql> SELECT(salary) * 1.0804 AS SALARIOS_CON_8_04_PORCIENTO_IVA From Staff;
```

```
+-----+
| SALARIOS_CON_8_04_PORCIENTO_IVA |
+-----+
| 9723.6000 |
| 19447.2000 |
| 12964.8000 |
| 25929.6000 |
| 32412.0000 |
| 9723.6000 |
+-----+
6 rows in set (0.00 sec)
```

9.

```
mysql> SELECT(salary) * 1.08 AS SALARIOS_CON_8_PORCIENTO_IVA From Staff Where position = 'Assistant';
```

```
+-----+
| SALARIOS_CON_8_PORCIENTO_IVA |
+-----+
| 9720.00 |
| 12960.00 |
| 9720.00 |
+-----+
3 rows in set (0.00 sec)

mysql>
```

10.

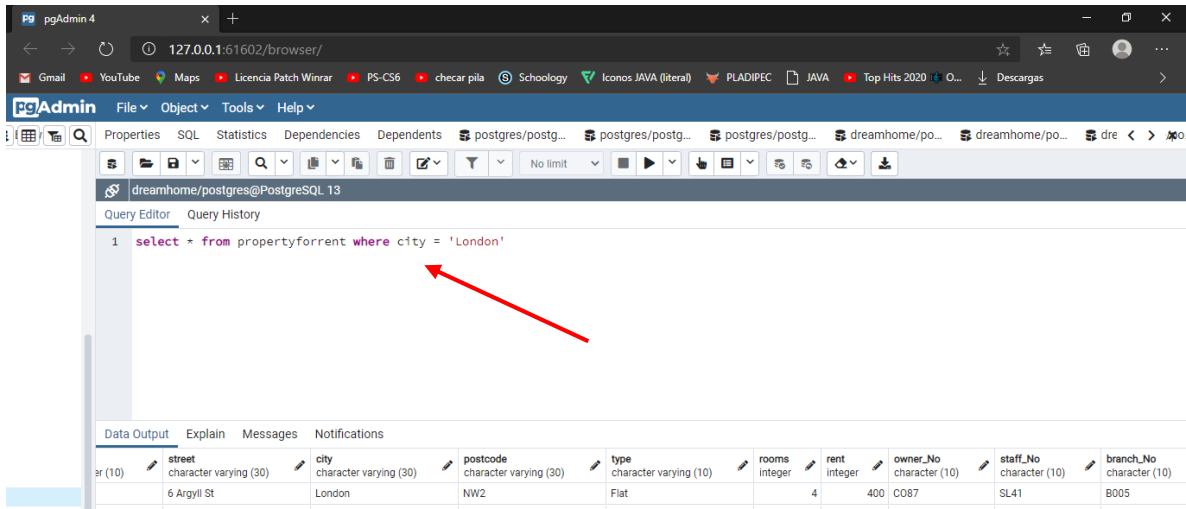
```
mysql> SELECT(salary) * 1.0907 AS SALARIOS_MUJERES_9_0_7_IVA From Staff Where sex = 'F';
```

```
+-----+
| SALARIOS_MUJERES_9_0_7_IVA |
+-----+
| 9816.3000 |
| 13088.4000 |
| 26176.8000 |
| 9816.3000 |
+-----+
4 rows in set (0.00 sec)

mysql>
```

Lo siguiente es hecho en el Gestor de Base de Datos que me tocó (PostgreSQL)

1.



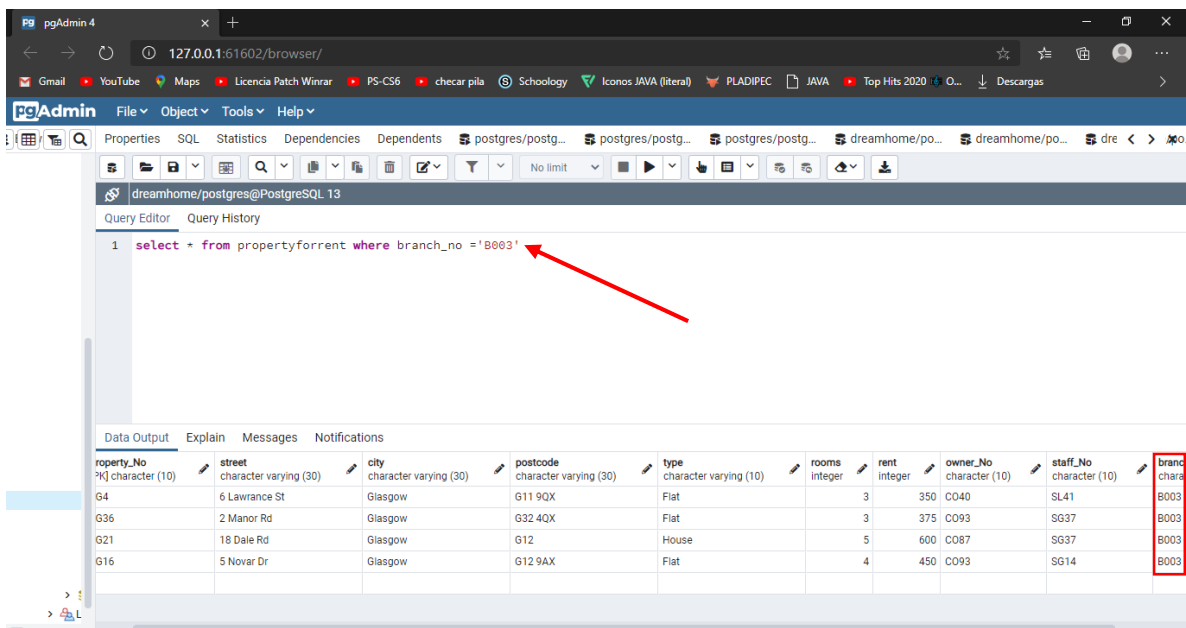
The screenshot shows the pgAdmin 4 interface. The Query Editor contains the following SQL query:

```
1 select * from propertyforrent where city = 'London'
```

A red arrow points to the `city = 'London'` condition in the query. Below the query editor, the Data Output tab is active, displaying a single row of data:

property_No	street	city	postcode	type	rooms	rent	owner_No	staff_No	branch_No
G4	6 Argyll St	London	NW2	Flat	4	400	C087	SL41	B005

2.



The screenshot shows the pgAdmin 4 interface. The Query Editor contains the following SQL query:

```
1 select * from propertyforrent where branch_no = 'B003'
```

A red arrow points to the `branch_no = 'B003'` condition in the query. Below the query editor, the Data Output tab is active, displaying a table with 10 rows of data. The `branch_No` column is highlighted with a red box, showing the value 'B003' for all rows.

property_No	street	city	postcode	type	rooms	rent	owner_No	staff_No	branch_No
G4	6 Lawrence St	Glasgow	G11 9QX	Flat	3	350	C040	SL41	B003
G36	2 Manor Rd	Glasgow	G32 4QX	Flat	3	375	C093	SG37	B003
G21	18 Dale Rd	Glasgow	G12	House	5	600	C087	SG37	B003
G16	5 Novar Dr	Glasgow	G12 9AX	Flat	4	450	C093	SG14	B003

3.

The screenshot shows the pgAdmin 4 interface. The Query Editor contains the following SQL query:

```
1 select (f_name, l_name, salary) as Salario_Mujeres from staff where sex = 'F'
```

A red arrow points to the `sex = 'F'` condition in the query. The Data Output tab shows the results of the query:

salario_mujeres record
1 (Ann,Beech,12000)
2 (Mary,Howe,9000)
3 (Susan,Brand,24000)
4 (Julie,Lee,9000)

4.

The screenshot shows the pgAdmin 4 interface. The Query Editor contains the following SQL query:

```
1 select (street, city, ttype, postcode ) as Casas from propertyforrent where ttype = 'House'
```

The Data Output tab shows the results of the query:

Casas record
1 ('16 Holthead',Aberdeen,House,'AB7 5SU')
2 ('18 Dale Rd',Glasgow,House,G12)

5.

The screenshot shows the pgAdmin 4 web interface in a browser. The left sidebar displays the database structure, with 'Tables (4)' expanded under the 'public' schema. The 'propertyforrent' table is selected. The main pane shows the 'Query Editor' with the following SQL query:

```
1 select (city, rooms, rent) from propertyforrent where city = 'Glasgow'
```

Below the query editor, the 'Data Output' tab is active, displaying the results of the query in a table format:

row	record
1	(Glasgow,3,350)
2	(Glasgow,3,375)
3	(Glasgow,5,600)
4	(Glasgow,4,450)

6.

The screenshot shows the pgAdmin 4 web interface. The left sidebar shows the 'Tables (4)' expanded under the 'public' schema, with the 'staff' table selected. The main pane shows the 'Query Editor' with the following SQL query:

```
1 select * from staff where position != 'Supervisor'
```

Below the query editor, the 'Data Output' tab is active, displaying the results of the query in a table format:

staff_no	f_name	l_name	position	sex	dob	salary	branch_no
1 SL21	John	White	Manager	M	1-Oct-45	30000	B005
2 SG37	Ann	Beech	Assistant	F	10-Nov-60	12000	B003
3 SA9	Mary	Howe	Assistant	F	19-Feb-70	9000	B007
4 SG5	Susan	Brand	Manager	F	3-Jun-40	24000	B003
5 SL41	Julie	Lee	Assistant	F	13-Jun-65	9000	B005

7.

The screenshot shows the pgAdmin 4 interface. The Query Editor contains the following SQL query:

```
1 select salary from staff
```

The Data Output tab is selected, displaying the results of the query in a table:

	salary
1	30000
2	12000
3	18000
4	9000
5	24000
6	9000

8.

The screenshot shows the pgAdmin 4 interface. The Query Editor contains the following SQL query:

```
1 select salary * 1.0804 as IVA from staff
```

The Data Output tab is selected, displaying the results of the query in a table:

	iva
1	32412.0000
2	12964.8000
3	19447.2000
4	9723.6000
5	25929.6000
6	9723.6000

9.

The screenshot shows the pgAdmin 4 interface. The Query Editor contains the following SQL query:

```
1 select salary * 1.08 AS SALARIOS_CON_8_PORCIENTO_IVA From Staff Where position = 'Assistant';
```

The Data Output tab shows the results of the query:

salarios_con_8_porcentaje_iva	numeric
1	12960.00
2	9720.00
3	9720.00

10.

The screenshot shows the pgAdmin 4 interface. The Query Editor contains the following SQL query:

```
1 select salary * 1.0907 as IVA_Mujeres From Staff Where sex = 'F';
```

The Data Output tab shows the results of the query:

iva_mujeres	numeric
1	13088.4000
2	9816.3000
3	26176.8000
4	9816.3000