



Ingeniería en Sistemas
Computacionales



INSTITUTO TECNOLÓGICO SUPERIOR DE JEREZ
JEREZ DE GARCÍA SALINAS A 27 DE SEPTIEMBRE DEL 2019

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CARRERA:
INGENIERÍA EN SISTEMAS COMPUTACIONALES

NOMBRE DE LA MATERIA:
TALLER DE BASES DE DATOS

QUINTO SEMESTRE

TEMA 2 - LENGUAJE DE MANIPULACIÓN DE DATOS

**“ACTIVIDAD 2 - EJERCICIOS SQL [CONSULTAS CON FUNCIONES
DE AGREGACIÓN]”**

DOCENTE:
SALVADOR ACEVEDO SANDOVAL

1. Mostrar el salario del empleado que gana mas

```
Simbolo del sistema - mysql -u root -p
C:\Users\guvad>mysql -u root -p
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 85
Server version: 8.0.17 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 bd_dreamhome;
Database changed
mysql> SELECT StaffNo, IName MAX(salary) FROM Staff;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'MAX(salary) F
```

2. Mostrar el salario del empleado que gana menos

```
mysql> SELECT MIN(salary) FROM Staff;
+-----+
| MIN(salary) |
+-----+
| 9000.00     |
+-----+
1 row in set (0.00 sec)

mysql>
```

3. Muestre cual es el promedio del salario que perciben los trabajadores

```
Simbolo del sistema - mysql -u root -p
+-----+
1 row in set (0.00 sec)

mysql> SELECT SUM(salary)/COUNT(*) AS Promedio_Salario FROM Staff;
+-----+
| Promedio_Salario |
+-----+
| 17000.000000     |
+-----+
1 row in set (0.00 sec)

mysql>
```

4. Crear una consulta que muestre la cantidad que gasta la empresa en salarios

```
mysql> SELECT SUM(salary) AS Sumas_Salarios FROM Staff;
+-----+
| Sumas_Salarios |
+-----+
| 102000.00      |
+-----+
1 row in set (0.00 sec)
```

5. Crear una consulta que muestre la cantidad que gasta la empresa en salarios quincenales (suponiendo que el dato almacenado es mensual)

```
Simbolo del sistema - mysql -u root -p
mysql> SELECT SUM(salary)/2 AS Sumas_Salarios FROM Staff;
+-----+
| Sumas_Salarios |
+-----+
| 51000.000000   |
+-----+
1 row in set (0.00 sec)

mysql>
```

6. Mostrar cuantas propiedades en renta existen

```
Simbolo del sistema - mysql -u root -p
+-----+
1 row in set (0.00 sec)

mysql> SELECT COUNT(*) AS PropiedadesEnRenta FROM PropertyForRent;
+-----+
| PropiedadesEnRenta |
+-----+
| 6                  |
+-----+
1 row in set (0.00 sec)

mysql>
```

7. Mostrar cuantas visitas a las propiedades se han hecho

```

Simbolo del sistema - mysql -u root -p
+-----+
1 row in set (0.00 sec)

mysql> SELECT COUNT(*) AS Visitas FROM Viewing;
+-----+
| Visitas |
+-----+
|      5 |
+-----+
1 row in set (0.02 sec)

mysql>

```

8. Mostrar la cantidad de clientes que atiende la empresa

```

Simbolo del sistema - mysql -u root -p
+-----+
1 row in set (0.02 sec)

mysql> SELECT COUNT(*) AS NumClientes FROM Client;
+-----+
| NumClientes |
+-----+
|          4 |
+-----+
1 row in set (0.00 sec)

mysql>

```

9. Mostrar cuantas propiedades en renta que cuesten más de 350 euros existen

```

Simbolo del sistema - mysql -u root -p
+-----+
1 row in set (0.00 sec)

mysql> SELECT COUNT(*) AS PropiedadesEnRenta_Masde350 FROM PropertyForRent WHERE Rent>350;
+-----+
| PropiedadesEnRenta_Masde350 |
+-----+
|                5 |
+-----+
1 row in set (0.00 sec)

mysql>

```

10. Mostrar cuantas visitas a la propiedad CR56 se han hecho

```

Simbolo del sistema - mysql -u root -p

mysql> SELECT COUNT(*) AS Visitas FROM Viewing WHERE clientNo=CR56;
ERROR 1054 (42S22): Unknown column 'CR56' in 'where clause'
mysql> SELECT COUNT(*) AS Visitas FROM Viewing WHERE clientNo='CR56';
+-----+
| Visitas |
+-----+
|      3 |
+-----+
1 row in set (0.00 sec)

mysql>

```

11. Mostrar la cantidad de clientes que puedan pagar una renta mayor a 500 euros atiende la empresa

```

Simbolo del sistema - mysql -u root -p
+-----+
1 row in set (0.00 sec)

mysql> SELECT COUNT(*) FROM Client WHERE maxRent>500;
+-----+
| COUNT(*) |
+-----+
|      2 |
+-----+
1 row in set (0.00 sec)

mysql>

```

12. Calcular el promedio de la renta que pueden pagar los clientes

```

Simbolo del sistema - mysql -u root -p
+-----+
1 row in set (0.00 sec)

mysql> SELECT AVG(maxRent) FROM Client;
+-----+
| AVG(maxRent) |
+-----+
| 531.250000 |
+-----+
1 row in set (0.00 sec)

mysql>

```

13. Mostrar el total de rentas recaudadas al mes

```

Simbolo del sistema - mysql -u root -p
+-----+
1 row in set (0.00 sec)

mysql> SELECT SUM(rent) AS RentasRecaudadasAlMes FROM PropertyForRent;
+-----+
| RentasRecaudadasAlMes |
+-----+
| 2825.00 |
+-----+
1 row in set (0.00 sec)

mysql>

```

14. Mostrar cual es la renta más cara pagada y cuál es la más barata

```

Simbolo del sistema - mysql -u root -p

mysql> SELECT MAX(rent) AS RentaMasCara FROM PropertyForRent;
+-----+
| RentaMasCara |
+-----+
| 650.00 |
+-----+
1 row in set (0.00 sec)

mysql> SELECT MIN(rent) AS RentaMasBarata FROM PropertyForRent;
+-----+
| RentaMasBarata |
+-----+
| 350.00 |
+-----+
1 row in set (0.00 sec)

mysql> _

```

15. Calcular el promedio de la renta que recibe la empresa

```

Simbolo del sistema - mysql -u root -p

mysql> SELECT AVG(rent) AS PromedioRentas FROM PropertyForRent;
+-----+
| PromedioRentas |
+-----+
| 470.833333 |
+-----+
1 row in set (0.00 sec)

mysql>

```

16. Mostrar el total de rentas que pueden pagar los clientes al mes

```

Simbolo del sistema - mysql -u root -p

mysql> SELECT SUM(maxRent) FROM Client;
+-----+
| SUM(maxRent) |
+-----+
| 2125.00 |
+-----+
1 row in set (0.00 sec)

mysql> _

```

17. Mostrar el total de rentas recaudadas por rentar CASAS

```

Simbolo del sistema - mysql -u root -p

mysql> SELECT SUM(rent) AS TotalRentas_Casas FROM PropertyForRent WHERE type='House';
+-----+
| TotalRentas_Casas |
+-----+
| 1250.00 |
+-----+
1 row in set (0.00 sec)

mysql> _

```

18. EXPLICAR COMO FUNCIONA max y min UTILIZADO EN CAMPOS VARCHAR
Retornan el valor de la cadena

```
mysql> SELECT * FROM CLIENT;
```

clientNo	fName	lName	telNo	prefType	maxRent
CR56	Aline	Stewart	0141-848-1925	Flat	350.00
CR62	Nary	Tregear	01224-196720	Flat	600.00
CR74	Mike	Ritchie	01475-392178	House	750.00
CR76	John	Kay	0207-774-5632	Flat	425.00

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

```
mysql> SELECT MIN(fName) FROM CLIENT;
```

MIN(fName)
Aline

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

```
mysql> SELECT MAX(fName) FROM CLIENT;
```

MAX(fName)
Mike

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

```
mysql> _
```