ACTIVITY security and views (MANDATORY)

1. With the jardineria database, create the CompteComandesMadrid view, which shows the NomClient, NomContacte, and NombreDeComandes fields sorted in ascending order by the name of the client, of all clients in the Madrid region.

```sql
create view CompteComandesMadrid as select NomClient,
                                 NomContacte,
                                 (select count(CodiComanda)
                                     from Comandes
                                     where Clients.CodiClient = Comandes.CodiClient) as 'NumeroDeComandes'
                                 from Clients
                                 where Regio = 'Madrid'
                                 order by NomClient asc;
```

2. Create an X@localhost user and grant them select permissions in the NomClient and NombreDeComandes fields of the CompteComandesMadrid view, and select permissions on the Clients table.

```sql
create user X identified by 'X';
grant select (NomClient, NomContacte, NumeroDeComandes) on CompteComandesMadrid to X;
grant select on Clients to X;
```

No he posat que l'usuari es connecti només des del localhost perquè al emprar docker me dona error a l'hora d'intentar connectar-me.

```
┌─snnas at PinkCode in ⌂
└─λ  mycli -u X
Password:
MySQL
mycli 1.26.1
Home: http://mycli.net
Bug tracker: https://github.com/dbcli/mycli/issues
Thanks to the contributor - Artem Bezsmertnyi
┌─X on localhost ⬛ (none)
└─X █
```

3. **With the user X@localhost, run a query, using the CompteComandesMadrid view and the Clients table showing the client's name, postal code and telephone of the 5 clients in Madrid with more orders (if they have the same number of orders, we sort them by client name).**

```
─X on localhost 🗄 JARDINERIA
└ 🔀  select cm.`NomClient`, c.`CodiPostal`, c.`Telefon`
└ ⟩  from `CompteComandesMadrid` cm
└ ⟩  join `Clients` as c on c.`NomClient` = cm.`NomClient`
└ ⟩  order by `NumeroDeComandes` desc, cm.NomClient asc
└ ⟩  limit 5;
+------------------------+-------------+--------------+
| NomClient              | CodiPostal  | Telefon      |
+------------------------+-------------+--------------+
| Flores Marivi          | 28945       | 666555444    |
| Jardineria Sara        | 27584       | 675124537    |
| Agrojardin             | 28904       | 675432926    |
| Beragua                | 28942       | 654987321    |
| Camunas Jardines S.L.  | 28145       | 34914873241  |
+------------------------+-------------+--------------+

5 rows in set
Time: 0.007s
─X on localhost 🗄 JARDINERIA
└ 🔀 []
```

4. **Create a view called Top5Madrid that shows the information above. Give X@localhost select permissions.**

```
-- 4
create view Top5Madrid as select cm.`NomClient`, c.`CodiPostal`, c.`Telefon`
                         from `CompteComandesMadrid` cm
                         join `Clients` as c on c.`NomClient` = cm.`NomClient`
                         order by `NumeroDeComandes` desc, cm.NomClient asc
                         limit 5;
```

```
grant select (NomClient, CodiPostal, Telefon) on Top5Madrid to X;
```

Marc Sans Vera

5. **Now remove the X@localhost select permissions on CompteComandesMadrid and Clients, reconnect with X@localhost and try to do a**

```
revoke select (NomClient, NomContacte, NumeroDeComandes) on CompteComandesMadrid from X;
revoke select on Clients from X;
```

```
Time: 0.009s
X on localhost JARDINERIA
 X select * from Clients;
(1142, "SELECT command denied to user 'X'@'::1' for table 'Clients'")
X on localhost JARDINERIA
 X select * from `CompteComandesMadrid`;
(1142, "SELECT command denied to user 'X'@'::1' for table 'CompteComandesMadrid'")
X on localhost JARDINERIA
 X
```

Select * from Top5Madrid;

Is it possible?

```
X on localhost JARDINERIA
 X select * from Top5Madrid;
+-----------------------+------------+--------------+
| NomClient             | CodiPostal | Telefon      |
+-----------------------+------------+--------------+
| Flores Marivi         | 28945      | 666555444    |
| Jardineria Sara       | 27584      | 675124537    |
| Agrojardin            | 28904      | 675432926    |
| Beragua               | 28942      | 654987321    |
| Camunas Jardines S.L. | 28145      | 34914873241  |
+-----------------------+------------+--------------+

5 rows in set
Time: 0.009s
X on localhost JARDINERIA
 X
```