

# M02UF3-A6\_Roles



**Nicolás Rubiales Guerrero**

**1rASIX**

**UF3**

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# CREAR USUARIS

Per crear els usuaris ho he fet amb l'arxiu 'create\_user.sql'

```
You, hace 1 segundo | 1 author (You)
1 USE mysql;
2
3 -- Crear els usuaris vendedor
4 CREATE USER 'DanRoberts'@'localhost' IDENTIFIED BY 'P@ssw0rd1' PASSWORD EXPIRE INTERVAL 60 DAY FAILED_LOGIN_ATTEMPTS 3;
5 CREATE USER 'SueSmith'@'localhost' IDENTIFIED BY 'P@ssw0rd1' PASSWORD EXPIRE INTERVAL 60 DAY FAILED_LOGIN_ATTEMPTS 3;
6 CREATE USER 'PaulCruz'@'localhost' IDENTIFIED BY 'P@ssw0rd1' PASSWORD EXPIRE INTERVAL 60 DAY FAILED_LOGIN_ATTEMPTS 3;
7
8 -- Crear los usuarios director
9 CREATE USER 'BobSmith'@'localhost' IDENTIFIED BY 'P@ssw0rd2' PASSWORD EXPIRE INTERVAL 1 DAY FAILED_LOGIN_ATTEMPTS 2 ACCOUNT LOCK;
10 CREATE USER 'LarryFitch'@'localhost' IDENTIFIED BY 'P@ssw0rd2' PASSWORD EXPIRE INTERVAL 1 DAY FAILED_LOGIN_ATTEMPTS 2 ACCOUNT LOCK;
11
12 -- Crear el usuari gerente
13 CREATE USER 'SamClark'@'localhost' IDENTIFIED BY 'P@ssw0rd3' FAILED_LOGIN_ATTEMPTS 2 ACCOUNT LOCK;
14
15 -- Mostrar informaci3 dels usuaris creats per comprovar el correcte funcionament
16 SELECT *
17 FROM mysql.user
18 WHERE user IN ('DanRoberts', 'SueSmith', 'PaulCruz', 'BobSmith', 'LarryFitch', 'SamClark');
```

Per tal d'evitar errors i poder treballar de manera m3s neta i ordenada he creat un script per netejar els usuaris i desbloquejar-los

```
M02UF3-A6_Roles > USERS > drop_users.sql
You, hace 10 segundos | 1 author (You)
-- Eliminar usuarios
1 DROP USER IF EXISTS 'DanRoberts'@'localhost';
2 DROP USER IF EXISTS 'SueSmith'@'localhost';
3 DROP USER IF EXISTS 'PaulCruz'@'localhost';
4 DROP USER IF EXISTS 'BobSmith'@'localhost';
5 DROP USER IF EXISTS 'LarryFitch'@'localhost';
6 DROP USER IF EXISTS 'SamClark'@'localhost';
7
8
9 -- Eliminar roles You, hace 5 minutos * arasi
10 DROP ROLE IF EXISTS 'Vendedor';
11 DROP ROLE IF EXISTS 'Director';
12 DROP ROLE IF EXISTS 'Gerent';
13
14 -- Desbloquear cuentas de usuario
15 ALTER USER 'DanRoberts'@'localhost' ACCOUNT UNLOCK;
16 ALTER USER 'SueSmith'@'localhost' ACCOUNT UNLOCK;
17 ALTER USER 'PaulCruz'@'localhost' ACCOUNT UNLOCK;
18 ALTER USER 'BobSmith'@'localhost' ACCOUNT UNLOCK;
19 ALTER USER 'LarryFitch'@'localhost' ACCOUNT UNLOCK;
20 ALTER USER 'SamClark'@'localhost' ACCOUNT UNLOCK;
21
```

# CREAR ROLS I ASSIGNAR PRIVILEGIS

Un altre cop utilitzat un script 'role\_creator.sql' he creat els rols i amb el script anterior també els dropejo per tal d'evitar errors.

```
M02UF3-A6_Roles > USERS > role_creator.sql
You, hace 21 minutos | 1 author (You)
1  -- Crear rols
2  CREATE ROLE venedor;
3  CREATE ROLE director;
4  CREATE ROLE gerent;
5
6  -- Assignar privilegis als rols
7  GRANT SELECT, INSERT, UPDATE ON vk22.comandes TO venedor;
8  GRANT SELECT, INSERT, UPDATE ON vk22.detall TO venedor;
9  GRANT SELECT ON vk22.clients TO venedor;
10
11 GRANT SELECT, UPDATE, DELETE, DROP, ALTER ON vk22.* TO director;
12
13 GRANT ALL PRIVILEGES ON vk22.* TO gerent;      You, hace 21 minutos * Uncommitted changes
14
```

# ASSIGNAR ROLS ALS USUARIS

Mitjançant el script 'role\_assignment.sql' assignem els rols corresponents a cada usuari.

```
M02UF3-A6_Roles > USERS > role_assignment.sql
You, hace 1 segundo | 1 author (You)
1  -- Assignar rols als usuaris
2  GRANT venedor TO 'DanRoberts'@'localhost', 'SueSmith'@'localhost', 'PaulCruz'@'localhost';
3  GRANT director, venedor TO 'BobSmith'@'localhost', 'LarryFitch'@'localhost';
4  GRANT gerent, director TO 'SamClark'@'localhost';
5
6
7  -- Establis els rols predeterminats a cada usuari      You, hace 1 segundo * Uncommitted changes
8  SET DEFAULT ROLE ALL TO 'SamClark'@'localhost'; -- Gerent
9  SET DEFAULT ROLE ALL TO 'BobSmith'@'localhost', 'LarryFitch'@'localhost'; -- Director1 y Director2
10 SET DEFAULT ROLE ALL TO 'DanRoberts'@'localhost', 'SueSmith'@'localhost', 'PaulCruz'@'localhost'; -- Venedor1, Venedor2 y Venedor3
11
12 FLUSH PRIVILEGES;
```

# PROVAR ELS PERMISOS

Per provar els permisos he creat un script per a cada rol, m'he logejat amb cadascun i mitjançant un tee i un source he realitzat les proves amb sortida als corresponent fitxers.

```
You, hace 14 minutos | 1 author (You)
1  mysql:[SamClark:(none)]> source /home/lasso/BBDD_SQL/M02UF3-A6_Roles/TESTS/gerent.sql
2  Reading table information for completion of table and column names
3  You can turn off this feature to get a quicker startup with -A
4
5  Database changed
6  +-----+-----+-----+-----+-----+-----+-----+-----+
7  | num_ven | nom          | any_naix | oficina_ven | titol    | contracte | director | quota | vendes |
8  +-----+-----+-----+-----+-----+-----+-----+-----+
9  |      101 | Dan Roberts  | 1945     | 12           | Venedor  | 1986-10-20 | 104      | 300000 | 354637 |
10 +-----+-----+-----+-----+-----+-----+-----+-----+
11 1 row in set (0,00 sec)
12
13 Query OK, 0 rows affected (0,00 sec)
14
15 Query OK, 0 rows affected (0,00 sec)
16
17 Query OK, 0 rows affected (0,02 sec)
18 You, hace 37 minutos * final
19 mysql:[SamClark:vk22]> exit
20
```

```
You, hace 49 minutos | 1 author (You)
1  -- Proves per a l'usuari de tipus gerent
2  USE vk22;
3
4  -- Prova SELECT a la taula "venedors"
5  SELECT * FROM venedors LIMIT 1;
6
7  -- Prova DELETE a la taula "venedors"
8  DELETE FROM venedors WHERE num_ven = 1;
9
10 -- Prova DELETE a la taula "comandes"
11 DELETE FROM comandes WHERE num_comanda = 112885;
12
13 -- Prova creació d'una nova taula de nom 'gerencia'
14 CREATE TABLE gerencia (
15     id_gerencia INT AUTO_INCREMENT PRIMARY KEY,
16     nom_gerencia VARCHAR(255) NOT NULL
17 )
18
```

# CREAR USUARI PROFE

Utilitzant tee he gravat la sortida de la creació de l'usuari profe i l'assignació del rol amb l'usuari root i l'usuari gerent

```
mysql:[root:(none)]> source /home/lasso/BBDD_SQL/M02UF3-A6_Roles/TESTS/profe.sql
Query OK, 0 rows affected (0,01 sec)

Query OK, 0 rows affected (0,00 sec)

Query OK, 0 rows affected (0,01 sec)

mysql:[root:(none)]> SELECT * FROM mysql.user WHERE User = 'profe';
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Host      | User | Select_priv | Insert_priv | Update_priv | Delete_priv | Create_priv | Drop_priv | Reload_priv | Shutdown_priv | Process_priv |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| localhost | profe | N           | N           | N           | N           | N           | N           | N           | N           | N           |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0,00 sec)

mysql:[root:(none)]> DROP USER 'profe'@'localhost';
Query OK, 0 rows affected (0,01 sec)

mysql:[root:(none)]> EXIT
mysql:[SamClark:(none)]> source /home/lasso/BBDD_SQL/M02UF3-A6_Roles/TESTS/profe.sql
ERROR 1227 (42000): Access denied; you need (at least one of) the CREATE USER privilege(s) for this operation
ERROR 1227 (42000): Access denied; you need (at least one of) the WITH ADMIN, ROLE_ADMIN, SUPER privilege(s) for this operation
ERROR 1227 (42000): Access denied; you need (at least one of) the RELOAD privilege(s) for this operation
mysql:[SamClark:(none)]> exit
```

```
You, hace 40 minutos | 1 author (You)
CREATE USER 'profe'@'localhost' IDENTIFIED BY 'P@ssw0rd!';
GRANT gerent TO 'profe'@'localhost';
FLUSH PRIVILEGES;
```