

Práctica DCL: grant y revoke

Otorgando permisos para crear usuarios a mi usuario base (en vez de SUPERUSER se puede poner solamente CREATEROLE).

```
ronald@PC-ron:~/dam$ su - postgres
Contraseña:
postgres@PC-ron:~$ psql template1
psql (10.10 (Ubuntu 10.10-0ubuntu0.18.04.1))
Type "help" for help.

template1=# ALTER USER ronald WITH SUPERUSER;
ALTER ROLE
template1=# \du

               List of roles
Role name | Attributes                                     | Member of
-----+-----+-----
dam1      | Cannot login                                | {}
dam2      |                                              | {}
postgres  | Superuser, Create role, Create DB, Replication, Bypass RLS | {}
ronald    | Superuser, Create role, Create DB          | {}

template1=# \q
postgres@PC-ron:~$ logout
ronald@PC-ron:~/dam$
```

Creación de rol *jefes* y asignación de privilegios

```
ronald@PC-ron:~/dam$ psql template1
Password:
psql (10.10 (Ubuntu 10.10-0ubuntu0.18.04.1))
Type "help" for help.

template1=# CREATE ROLE jefes;
CREATE ROLE

training=# GRANT ALL ON cliente TO jefes;
GRANT
training=# GRANT ALL ON oficina TO jefes;
GRANT
training=# GRANT ALL ON pedido TO jefes;
GRANT
training=# GRANT ALL ON producto TO jefes;
GRANT
training=# GRANT ALL ON repventa TO jefes;
GRANT
training=#
```

Creación de rol *comercials* y asignación de privilegios

```
templatel=# CREATE ROLE comerciales;  
CREATE ROLE
```

```
templatel=# \c training  
You are now connected to database "training" as user "ronald".  
training=# GRANT ALL ON cliente TO comerciales;  
GRANT  
training=# GRANT ALL ON pedido TO comerciales;  
GRANT  
training=# GRANT ALL ON producto TO comerciales;  
GRANT  
training=# GRANT SELECT ON oficina TO comerciales;  
GRANT
```

```
training=# REVOKE SELECT ON repventa FROM comerciales;  
REVOKE  
training=#
```

Creación de usuarios y asignación de roles

```
training=# CREATE USER user1 WITH PASSWORD 'user1';  
CREATE ROLE  
training=# CREATE USER user2 WITH PASSWORD 'user2';  
CREATE ROLE  
training=# GRANT jefes TO user1;  
GRANT ROLE  
training=# GRANT comerciales TO user2;  
GRANT ROLE  
training=# \du
```

Role name	List of roles Attributes	Member of
comercials	Cannot login	{}
dam1	Cannot login	{}
dam2		{}
jefes	Cannot login	{}
postgres	Superuser, Create role, Create DB, Replication, Bypass RLS	{}
ronald	Superuser, Create role, Create DB	{}
user1		{jefes}
user2		{comercials}

```
training=#
```

Listado de permisos (los usuarios con rol jefes tienen todos los permisos):

```
training=# \dp
```

Schema	Name	Type	Access privileges	Column privileges	Policies
public	assumpte	table			
public	assumptexprocurador	table			
public	client	table			
public	cliente	table	ronald=arwdDxt/ronald + comercials=arwdDxt/ronald+ jefes=arwdDxt/ronald		
public	contracte	table			
public	dept	table			
public	emp	table			
public	empresa	table			
public	entrevista	table			
public	oficina	table	ronald=arwdDxt/ronald + comercials=r/ronald + jefes=arwdDxt/ronald		
public	pedido	table	ronald=arwdDxt/ronald + comercials=arwdDxt/ronald+ jefes=arwdDxt/ronald		
public	persona	table			
public	procurador	table			
public	producto	table	ronald=arwdDxt/ronald + comercials=arwdDxt/ronald+ jefes=arwdDxt/ronald		
public	puesto	table			
public	repventa	table	ronald=arwdDxt/ronald + comercials=arwdDxt/ronald + jefes=arwdDxt/ronald		
public	salgrade	table			

```
(17 rows)

training=#
```

Usuario con rol comerciales:

- Tiene todo tipo de permisos sobre las tablas cliente, pedido y producto.
- Puede leer la tabla oficina pero no puede insertar datos
- No puede ver la tabla repventas

```
ronald@PC-ron:~/dam$ psql -U user2 training
Password for user user2:
psql (10.10 (Ubuntu 10.10-0ubuntu0.18.04.1))
Type "help" for help.

training=> SELECT * FROM repventa;
ERROR: permission denied for relation repventa
training=> SELECT * FROM oficina;
 ofinum | ciudad | region | director | objetivo | ventas
-----+-----+-----+-----+-----+-----
      22 | Denver | Oeste  |      108 | 300000.00 | 186042.00
      11 | New York | Este   |      106 | 575000.00 | 692637.00
      12 | Chicago | Este   |      104 | 800000.00 | 735042.00
      13 | Atlanta | Este   |      105 | 350000.00 | 367911.00
      21 | Los Angeles | Oeste |      108 | 725000.00 | 835915.00
(5 rows)

training=> INSERT INTO oficina VALUES (24, 'Barcelona', 'Este', 108, 800000, 80000);
ERROR: permission denied for relation oficina
training=>
```

```

training=> SELECT * FROM cliente;
  cliecod |      nombre      | repcod | limcred
-----+-----+-----+-----
    2111 | JCP Inc.         |    103 | 50000.00
    2102 | First Corp.      |    101 | 65000.00
    2103 | Acme Mfg.        |    105 | 50000.00
    2123 | Carter & Sons    |    102 | 40000.00
    2107 | Ace International |    110 | 35000.00
    2115 | Smithson Corp.   |    101 | 20000.00
    2101 | Jones Mfg.       |    106 | 65000.00
    2112 | Zetacorp         |    108 | 50000.00
    2121 | QMA Assoc.       |    103 | 45000.00
    2114 | Orion Corp       |    102 | 20000.00
    2124 | Peter Brothers   |    107 | 40000.00
    2108 | Holm & Landis    |    109 | 55000.00
    2117 | J.P. Sinclair    |    106 | 35000.00
    2122 | Three-Way Lines  |    105 | 30000.00
    2120 | Rico Enterprises |    102 | 50000.00
    2106 | Fred Lewis Corp. |    102 | 65000.00
    2119 | Solomon Inc.     |    109 | 25000.00
    2118 | Midwest Systems  |    108 | 60000.00
    2113 | Ian & Schmidt    |    104 | 20000.00
    2109 | Chen Associates   |    103 | 25000.00
    2105 | AAA Investments   |    101 | 45000.00
(21 rows)

training=> INSERT INTO cliente VALUES (1000, 'Cliente', 108, 800000);
INSERT 0 1
training=> SELECT * FROM cliente WHERE cliecod = 1000
training-> ;
  cliecod | nombre | repcod | limcred
-----+-----+-----+-----
    1000 | Cliente |    108 | 800000.00
(1 row)

training=> 

```

```

training=> DELETE FROM cliente WHERE cliecod = 1000;
DELETE 1
training=> SELECT * FROM cliente WHERE cliecod = 1000;
  cliecod | nombre | repcod | limcred
-----+-----+-----+-----
(0 rows)

training=> 

```