



UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO

FACULTAD DE INGENIERÍA

INGENIERÍA EN COMPUTACIÓN

BASE DE DATOS

GRUPO – 01

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- Tarea 04 - MANEJO DE BASE DE DATOS -

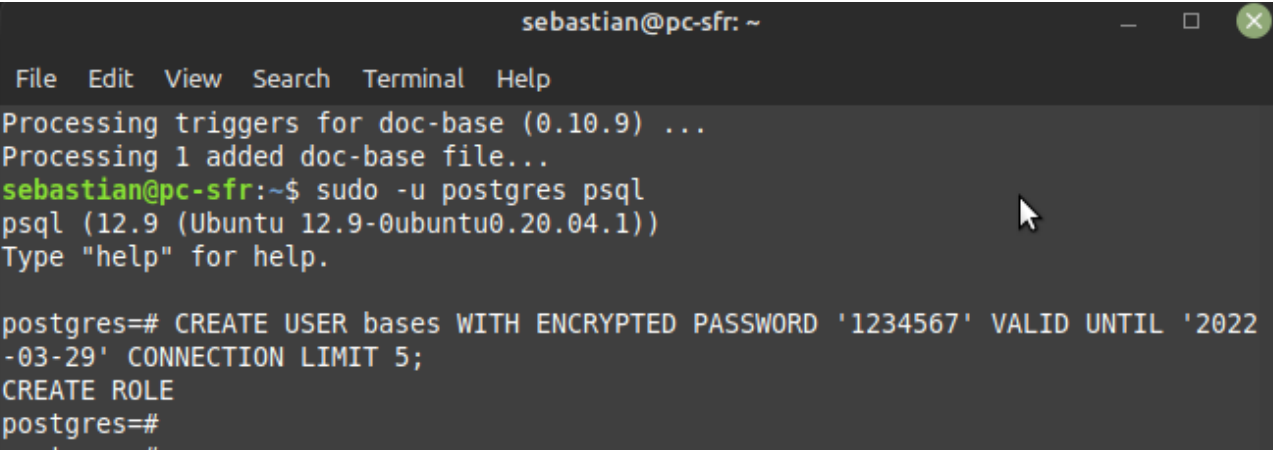
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CREAR UN USUARIO CON CONTRASEÑA, QUE SU CUENTA SEA VÁLIDA POR UN MES, Y ESTABLECER UN LÍMITE DE CONEXIONES.

CREAR UN ROLE, ASIGNAR PERMISOS DE LECTURA, ACTUALIZACIÓN Y BORRADO EN UNA TABLA DE NOMBRE “ESTUDIANTE”. ASIGNAR DICHO ROL AL USUARIO ANTERIOR.

- se crea un usuario llamado “bases” con una conexión de todo marzo, y un límite de 5 conexiones.

A terminal window titled 'sebastian@pc-sfr: ~' with standard window controls. It shows the execution of 'sudo -u postgres psql' to switch to the postgres user. Inside the psql prompt, the command 'CREATE USER bases WITH ENCRYPTED PASSWORD '1234567' VALID UNTIL '2022-03-29' CONNECTION LIMIT 5;' is entered and executed. Then, the command 'CREATE ROLE' is entered, and the prompt returns to the postgres=# state.

```
sebastian@pc-sfr: ~
File Edit View Search Terminal Help
Processing triggers for doc-base (0.10.9) ...
Processing 1 added doc-base file...
sebastian@pc-sfr:~$ sudo -u postgres psql
psql (12.9 (Ubuntu 12.9-0ubuntu0.20.04.1))
Type "help" for help.

postgres=# CREATE USER bases WITH ENCRYPTED PASSWORD '1234567' VALID UNTIL '2022
-03-29' CONNECTION LIMIT 5;
CREATE ROLE
postgres=#
postgres=#
```

- verificamos nuestro nuevo usuario

```
sebastian@pc-sfr: ~  
File Edit View Search Terminal Help  
postgres-#  
postgres-#  
postgres-# du  
postgres-# du/  
postgres-# d  
postgres-# =  
postgres-# exit  
Use \q to quit.  
postgres-# \q  
sebastian@pc-sfr:~$ sudo -u postgres psql  
[sudo] password for sebastian:  
psql (12.9 (Ubuntu 12.9-0ubuntu0.20.04.1))  
Type "help" for help.  
  
postgres=# \l  
postgres=# \du  
  
List of roles  
Role name | Attributes | Member of  
-----+-----+-----  
bases | 5 connections | {}  
 | Password valid until 2022-03-29 00:00:00-06 |  
postgres | Superuser, Create role, Create DB, Replication, Bypass RLS | {}  
  
postgres=#
```

- creamos nuestra tabla estudiante y verificamos su creación

```
sebastian@pc-sfr: ~  
File Edit View Search Terminal Help  
postgres | Superuser, Create role, Create DB, Replication, Bypass RLS | {}  
  
postgres=# create table estudiante (atributo varchar(50));  
CREATE TABLE  
postgres=# \d  
List of relations  
Schema | Name | Type | Owner  
-----+-----+-----+-----  
public | estudiante | table | postgres  
(1 row)  
  
postgres=#
```

- creamos nuestro role y vemos que para este momento no puede conectarse a nuestra tabla

```
sebastian@pc-sfr: ~  
File Edit View Search Terminal Help  
postgres=#  
postgres=#  
postgres=#  
postgres=#  
postgres=#  
postgres=#  
postgres=# create role unrole;  
CREATE ROLE  
postgres=# \du  
  
List of roles  
Role name | Attributes | Member of  
-----+-----+-----  
bases | 5 connections | +| {}  
 | Password valid until 2022-03-29 00:00:00-06 |  
postgres | Superuser, Create role, Create DB, Replication, Bypass RLS | {}  
unrole | Cannot login | {}  
postgres=#
```

- **ASIGNAR PERMISOS DE LECTURA, ACTUALIZACIÓN Y BORRADO EN UNA TABLA DE NOMBRE “ESTUDIANTE”. ASIGNAR DICHO ROL AL USUARIO ANTERIOR.**

```
sebastian@pc-sfr: ~  
File Edit View Search Terminal Help  
postgres=# Password valid until 2022-03-29 00:00:00-06 | {}  
unrole | Superuser, Create role, Create DB, Replication, Bypass RLS | {}  
 | Cannot login | {}  
postgres=# grant SELECT on estudiante to unrole;  
GRANT  
postgres=# \du  
  
List of roles  
Role name | Attributes | Member of  
-----+-----+-----  
bases | 5 connections | +| {}  
 | Password valid until 2022-03-29 00:00:00-06 |  
postgres | Superuser, Create role, Create DB, Replication, Bypass RLS | {}  
unrole | Cannot login | {}  
postgres=# grant UPDATE on estudiante to unrole;  
GRANT  
postgres=# \du  
  
List of roles  
Role name | Attributes | Member of  
-----+-----+-----  
bases | 5 connections | +| {}  
 | Password valid until 2022-03-29 00:00:00-06 |  
postgres | Superuser, Create role, Create DB, Replication, Bypass RLS | {}  
unrole | Cannot login | {}  
postgres=# grant DELETE on estudiante to unrole;  
GRANT  
postgres=# grant unrole to bases;  
GRANT ROLE  
postgres=# \du  
  
List of roles  
Role name | Attributes | Member of  
-----+-----+-----  
bases | 5 connections | +| {unrole}  
 | Password valid until 2022-03-29 00:00:00-06 |  
postgres | Superuser, Create role, Create DB, Replication, Bypass RLS | {}  
unrole | Cannot login | {}  
postgres=#
```