Ingeniería Electrónica
Proyectos Computacionales Aplicados a Ingeniería Electrónica
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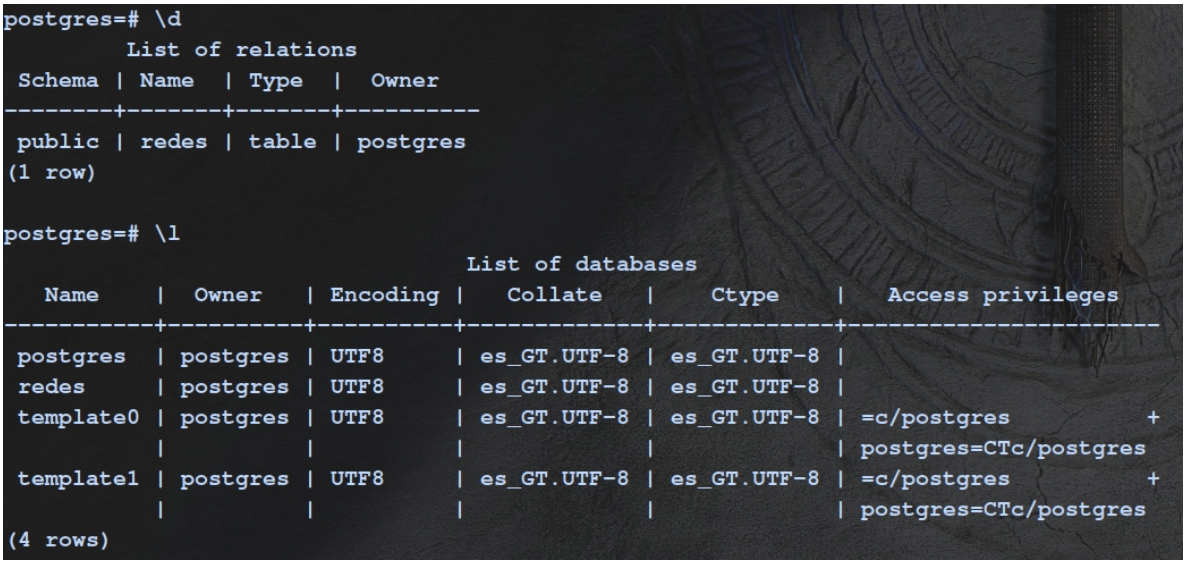
PostgreSQL

```
(base) hefecaso@Fernando-Carrera:~$ sudo apt-get install postgresql postgresql-contrib
[sudo] password for hefecaso:
Reading package lists... Done
Building dependency tree
Reading state information... Done
postgresql is already the newest version (12+214ubuntu0.1).
postgresql-contrib is already the newest version (12+214ubuntu0.1).
The following packages were automatically installed and are no longer required:
  libboost-date-time-dev libboost-filesystem-dev libboost-program-options-dev libboost-r
egex-dev libboost-system-dev libboost-test-dev libboost-thread-dev
  libgnuradio-analog libgnuradio-audio libgnuradio-blocks libgnuradio-channels libgnurad
io-digital libgnuradio-dtv libgnuradio-fec libgnuradio-fft
  libgnuradio-filter libgnuradio-network libgnuradio-pmt libgnuradio-qtgui libgnuradio-r
untime libgnuradio-soapy libgnuradio-trellis libgnuradio-uhd
  libgnuradio-video-sdl libgnuradio-vocoder libgnuradio-wavelet libgnuradio-zeromq linux
-image-5.11.0-46-generic linux-modules-5.11.0-46-generic
  linux-modules-extra-5.11.0-46-generic
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 21 not upgraded.
(base) hefecaso@Fernando-Carrera:~$
```

```
(base) hefecaso@Fernando-Carrera:~$ sudo -u postgres psql
[sudo] password for hefecaso:
psql (12.9 (Ubuntu 12.9-0ubuntu0.20.04.1))
Type "help" for help.
```

```
postgres=# create database redes;
CREATE DATABASE
```

```
redes=# create table redes(
redes(# Nombre varchar(20),
redes(# Carnet int not null
redes(# );
CREATE TABLE
```



```
postgres=# \d
         List of relations
 Schema | Name  | Type  |  Owner
--------+-------+-------+----------
 public | redes | table | postgres
(1 row)

postgres=# \l
                                  List of databases
   Name    |  Owner   | Encoding |   Collate   |    Ctype    |   Access privileges
-----------+----------+----------+-------------+-------------+-----------------------
 postgres  | postgres | UTF8     | es_GT.UTF-8 | es_GT.UTF-8 |
 redes     | postgres | UTF8     | es_GT.UTF-8 | es_GT.UTF-8 |
 template0 | postgres | UTF8     | es_GT.UTF-8 | es_GT.UTF-8 | =c/postgres          +
           |          |          |             |             | postgres=CTc/postgres
 template1 | postgres | UTF8     | es_GT.UTF-8 | es_GT.UTF-8 | =c/postgres          +
           |          |          |             |             | postgres=CTc/postgres
(4 rows)
```

```
>> pkg install -forge database
warning: creating installation directory /home/hefecaso/octave
warning: called from
    install at line 30 column 5
    pkg at line 441 column 9
configure: error: unable to find the PQconnectdb() function in pq
checking for mkoctfile... /usr/bin/mkoctfile
checking for octave-config... /usr/bin/octave-config
checking for pg_config... pg_config
checking for gawk... no
checking for mawk... mawk
checking for a sed that does not truncate output... /usr/bin/sed
checking whether the C++ compiler works... yes
checking for C++ compiler default output file name... a.out
checking for suffix of executables...
checking whether we are cross compiling... no
checking for suffix of object files... o
checking whether we are using the GNU C++ compiler... yes
checking whether g++ accepts -g... yes
checking how to run the C++ preprocessor... g++ -E
checking for gcc... gcc
checking whether we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes
checking for gcc option to accept ISO C89... none needed
checking for PQconnectdb in -lpq... no

pkg: error running the configure script for database.
error: called from
    configure_make at line 82 column 9
    install at line 192 column 7
    pkg at line 441 column 9
```

* Tarea_5.m

```
1  pkg load database
2
3  conn = pq_connect(setdbopts('dbname','redes','host','localhost',
4  'port','5432','user','postgres','password','123456'))
5
6  N=pq_exec_params(conn, "insert into redes values ('Carlos','201400524');") %insertar datos en la tabla
7
8  N=pq_exec_params(conn, 'select * from redes;')
```

```
>> Tarea_5
password:
conn = <PGconn object>
N =  1
N =

  scalar structure containing the fields:

    data =
    {
      [1,1] = Carlos
      [1,2] = 201400524
    }

    columns =
    {
      [1,1] = nombre
      [1,2] = carnet
    }

    types =

      1x2 struct array containing the fields:

        name
        is_array
        is_composite
        is_enum
        elements
```