

Pt0 - postgraphile & GraphQL

1.Instalación de PostgreSQL

Primero se debe instalar el software necesario.

```
sudo apt-get install postgresql postgresql-contrib
```

```
root@rojas:~# apt-get install postgresql postgresql-contrib
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias
Leyendo la información de estado... Hecho
postgresql ya está en su versión más reciente (10+190).
postgresql-contrib ya está en su versión más reciente (10+190).
0 actualizados, 0 nuevos se instalarán, 0 para eliminar y 30 no actualizados.
root@rojas:~#
```

Luego se debe iniciar el postgresQL.

```
service postgresql start
```

```
root@rojas:~# service postgresql start
root@rojas:~#
```

Finalmente se conecta al postgresQL

```
psql
```

```
root@rojas:~# psql
psql (10.6 (Ubuntu 10.6-0ubuntu0.18.04.1))
Type "help" for help.

mirokshi=#
```

2.Instalación Posgraphile

Para poder instalarlo se debe tener el node.js y el npm

*NodeJs

```
→ ~ node -v  
v10.14.2
```

*npm

```
→ ~ npm -v  
6.9.0
```

Instalación del postGraphile mediante *npm*.

```
npm install -g postgraphile
```

```
→ ~ npm install -g postgraphile  
/home/mirokshi/node-v10.14.2-linux-x64/bin/postgraphile -> /home/mirokshi/node  
-v10.14.2-linux-x64/lib/node_modules/postgraphile/build/postgraphile/cli.js  
+ postgraphile@4.3.3  
added 112 packages from 137 contributors in 2.967s  
→ ~
```

```
→ ~ postgraphile --help  
Usage: postgraphile [options...]  
  
A GraphQL schema created by reflection over a PostgreSQL schema 🐘 (previously known as PostGraphQL)
```

```
Get started:  
  
$ postgraphile  
$ postgraphile -c postgres://localhost/my_db  
$ postgraphile --connection postgres://user:pass@localhost/my_db --schema my_schema --watch --dynamic-json
```

```
→ ~ npm install -g npx  
/home/mirokshi/node-v10.14.2-linux-x64/bin/npx -> /home/mirokshi/node-v10.14.2  
-linux-x64/lib/node_modules/npx/index.js  
+ npx@10.2.0  
added 484 packages from 651 contributors in 8.626s
```

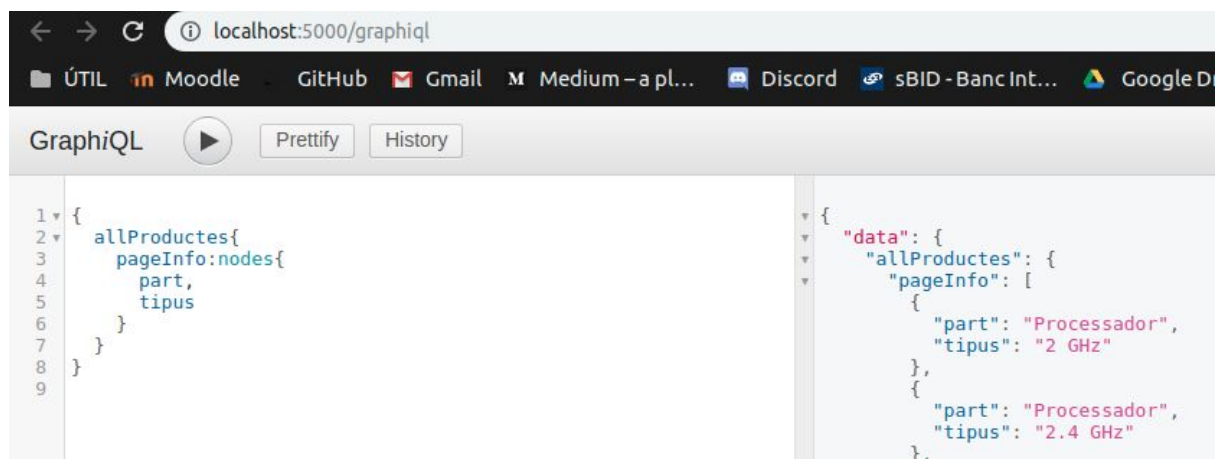
Conexion :D

```
→ ~ npx postgraphile -c postgres://mirokshi:140299@localhost/mirokshi -a -j
PostGraphile v4.3.3 server listening on port 5000 🚀

▶ GraphQL API: http://localhost:5000/graphql
▶ GraphiQL GUI/IDE: http://localhost:5000/graphiql (enhance with '--enhance-graphiql')
▶ Postgres connection: postgres://mirokshi:\[SECRET\]@localhost/mirokshi
▶ Postgres schema(s): public
▶ Documentation: https://graphile.org/postgraphile/introduction/
▶ Join Clay Smith in supporting PostGraphile development: https://graphile.org/sponsor/

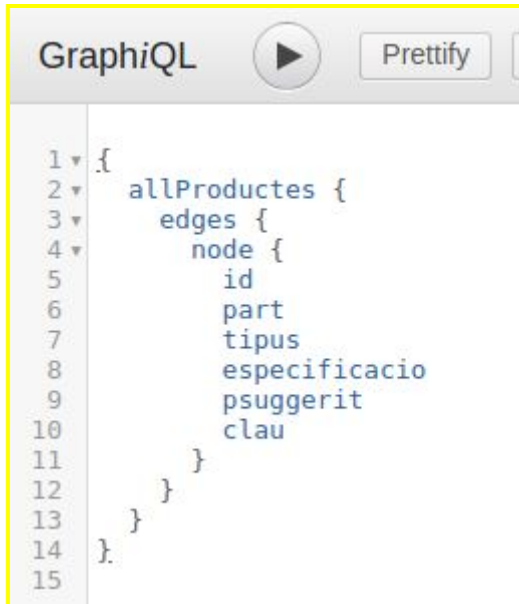
* * *
```

```
npx postgraphile -c postgres://mirokshi:140299@localhost/mirokshi -a -j
```



3.Pruebas GraphQL

Consultas



The screenshot shows the GraphQL Playground interface. At the top, there is a header with the text "GraphiQL", a play button icon, and a "Prettify" button. Below the header is a text area containing a GraphQL query. The query is as follows:

```
1 {  
2   allProductes {  
3     edges {  
4       node {  
5         id  
6         part  
7         tipus  
8         especificacio  
9         psuggerit  
10        clau  
11      }  
12    }  
13  }  
14 }  
15
```

```

{
  "data": {
    "allProductes": {
      "edges": [
        {
          "node": {
            "id": "WyJwcm9kdWN0ZXMiLDJd",
            "part": "Processador",
            "tipus": "2 GHz",
            "especificacio": "32 bits",
            "psuggestit": null,
            "clau": 1
          }
        },
        {
          "node": {
            "id": "WyJwcm9kdWN0ZXMiLDJd",
            "part": "Processador",
            "tipus": "2.4 GHz",
            "especificacio": "32 bits",
            "psuggestit": 35,
            "clau": 2
          }
        },
        {
          "node": {
            "id": "WyJwcm9kdWN0ZXMiLDNl",
            "part": "Processador",
            "tipus": "1.7 GHz",
            "especificacio": "64 bits",
            "psuggestit": 205,
            "clau": 3
          }
        }
      ]
    }
  }
}

```

Para poder realizar un CRUD postgraphile requiere ciertos plugins o una configuración exacta

*Intento de hacer un insert



The image shows the PostGraphiQL web interface. At the top, there is a header with the PostGraphiQL logo, a play button, and three buttons: 'Prettify', 'History', and 'Headers'. The main area contains a GraphQL query editor with the following code:

```
1 mutation{
2   createProducte(
3     input : {producte : { id: "1", part: "Disco duro"}}
4   ){
5     producte {
6       id
7       part
8       createdAt
9     }
10  }
11 }
12
```



The image shows a JSON response, likely from a GraphQL API, indicating an error. The structure is as follows:

```
{
  "errors": [
    {
      "message": "Schema is not configured for mutations.",
      "locations": [
        {
          "line": 1,
          "column": 1
        }
      ]
    }
  ]
}
```

WEBGRAFIA

- <https://www.godaddy.com/garage/how-to-install-postgresql-on-ubuntu-14-04/> - Instalación del PostgreSQL
- <https://tecadmin.net/install-latest-nodejs-npm-on-ubuntu/> - Instalación del *npm*
- <https://www.npmjs.com/package/postgraphile> - Documentación del postGraphile en el npm
- <https://www.graphile.org/postgraphile/introduction/> - Instalación del postGraphile siguiendo la documentación
- <https://graphql.org/learn/> - GraphQL

