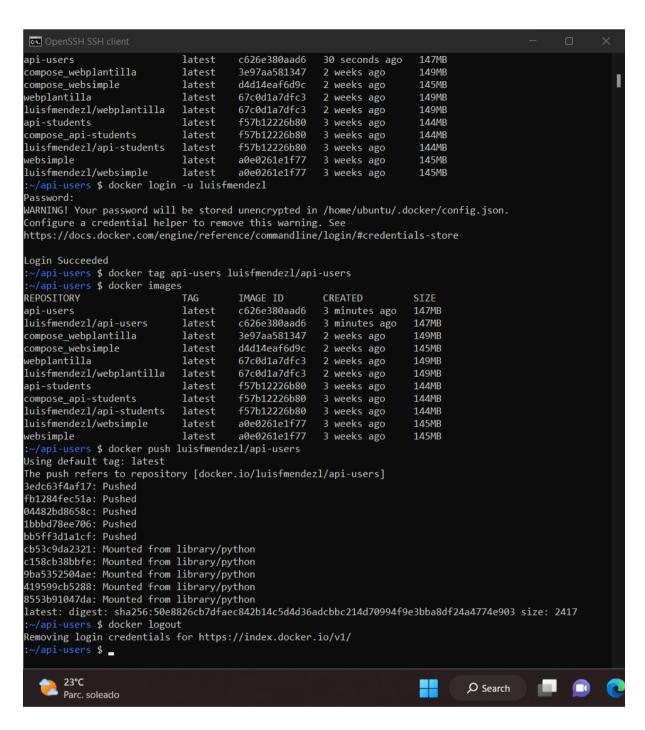
## Padlet (Evaluación continua) - Semana 6 Taller 2

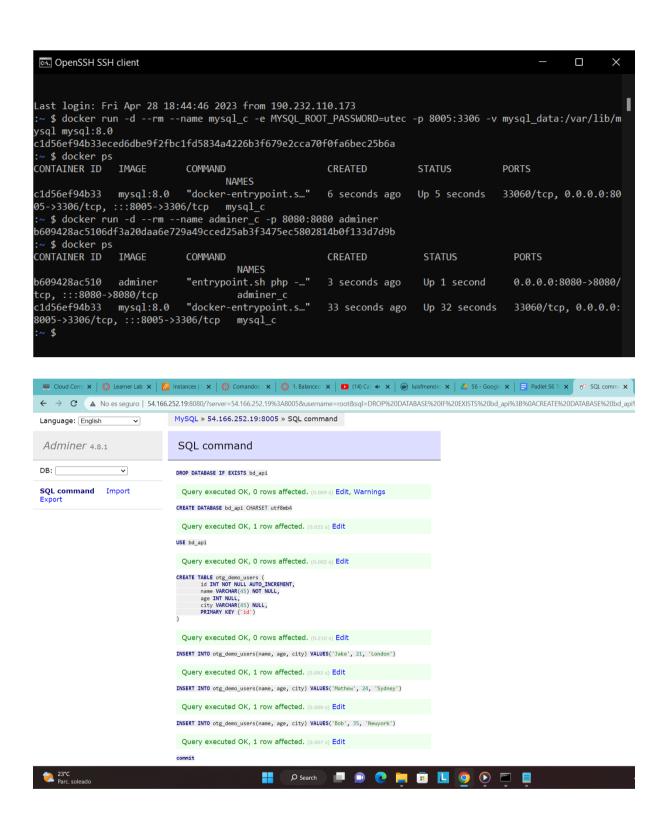
## Exercise 1 Creating image

```
OpenSSH SSH client
                                                                                                                                 Last login: Fri Apr 21 02:41:55 2023 from 190.232.110.173
/home/ubuntu
 :∼ $ mkdir api-users
 ~ $ cd api-users
 :~/api-users $ ls -l
total 0
 :~/api-users $ ls -l
total 16
-rw-rw-r-- 1 ubuntu ubuntu 170 Sep 18 2022 Dockerfile
-rw-rw-r-- 1 ubuntu ubuntu 4133 Sep 22 2022 app.py
-rw-rw-r-- 1 ubuntu ubuntu 486 Sep 22 2022 db.txt
 :~/api-users $ cat db.txt
DROP DATABASE IF EXISTS bd_api;
 CREATE DATABASE bd_api CHARSET utf8mb4;
USE bd_api;
CREATE TABLE otg_demo_users (
  id INT NOT NULL AUTO_INCREMENT,
  name VARCHAR(45) NOT NULL,
  age INT NULL,
  city VARCHAR(45) NULL,
 PRIMARY KEY (`id`));
INSERT INTO otg_demo_users(name, age, city) VALUES('Jake', 21, 'London');
INSERT INTO otg_demo_users(name, age, city) VALUES('Mathew', 24, 'Sydney');
INSERT INTO otg_demo_users(name, age, city) VALUES('Bob', 35, 'Newyork');
 :~/api-users $ pico app.py
 :~/api-users $ :~/api-users $ cat Dockerfile
FROM python:3-slim
WORKDIR /programas/api-users
RUN pip3 install flask
RUN pip3 install flask-mysql
RUN pip3 install Flask-RESTful
COPY .
CMD [ "python3", "./app.py" ]
:~/api-users $ docker build -t api-users .
[+] Building 12.7s (11/11) FINISHED
         23°C
                                                                                                          O Search
         Parc. soleado
```

Uploading image api-users to Docker Hub

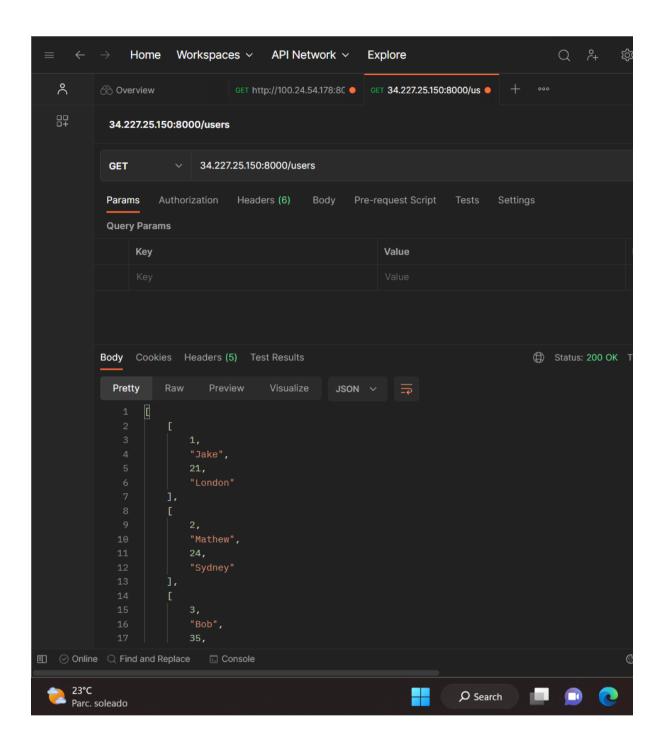


Accessing to DB MySQL and creating a table (VM database)



Now, in VM development

```
OpenSSH SSH client
Last login: Sun May 7 20:14:44 2023 from 190.232.110.173
:∼ $ docker images
REPOSITORY
                                       IMAGE ID
                                                      CREATED
                            TAG
                                                                        ST7F
api-users
                            latest
                                       c626e380aad6
                                                      22 minutes ago
                                                                        147MB
                                      c626e380aad6
luisfmendezl/api-users
                            latest
                                                      22 minutes ago
                                                                        147MB
compose_webplantilla
                                      3e97aa581347
                                                      2 weeks ago
                                                                        1/19MR
                            latest
compose_websimple
                            latest
                                      d4d14eaf6d9c
                                                      2 weeks ago
                                                                        145MB
webplantilla
                            latest
                                      67c0d1a7dfc3
                                                      2 weeks ago
                                                                        149MB
luisfmendezl/webplantilla
                                                                        149MB
                                      67c0d1a7dfc3
                            latest
                                                      2 weeks ago
                            latest
luisfmendezl/api-students
                                       f57b12226b80
                                                      3 weeks ago
                                                                        144MB
                                                      3 weeks ago
                                      f57b12226b80
                                                                        144MB
ani-students
                            latest
compose_api-students
                                      f57b12226b80
                                                                        144MR
                            latest
                                                      3 weeks ago
websimple
                                      a0e0261e1f77
                                                                        145MB
                            latest
                                                      3 weeks ago
                                      a0e0261e1f77
                                                                        145MB
luisfmendezl/websimple
                            latest
                                                      3 weeks ago
:~ $ docker run -d --rm --name api-users_c -p 8000:8000 api-users
bbf7b65030bb111a83bbf4eb92613e522bdbc7b108bfe2a7eb56b4de0b8b1ea5
:∼ $ docker ps
CONTAINER ID IMAGE
                           COMMAND
                                                 CREATED
                                                                 STATUS
                                                                                 PORTS
                   NAMES
bbf7b65030bb api-users
                           "python3 ./app.py"
                                                                                 0.0.0.0:8000->8000/tcp, :
                                                4 seconds ago
                                                                Up 2 seconds
::8000->8000/tcp api-users c
~ $ 1s -1
total 44
drwxrwxr-x 2 ubuntu ubuntu 4096 May 7 20:25 api-users
drwxrwxr-x 2 ubuntu ubuntu 4096 Apr 15 20:19 api01
drwxrwxr-x 5 ubuntu ubuntu 4096 Apr 20 01:13 compose
drwxr-xr-x 2 ubuntu ubuntu 4096 Apr 12 20:08 environment
drwxr-xr-x 5 ubuntu ubuntu 4096 Apr 12 20:19 node_modules
-rw-r--r-- 1 ubuntu ubuntu 1969 Apr 12 20:19 package-lock.json
-rw-r--r-- 1 ubuntu ubuntu 79 Apr 12 20:19 package.json
drwxrwxr-x 3 ubuntu ubuntu 4096 Apr 14 15:15 python3
drwxrwxr-x 3 ubuntu ubuntu 4096 Apr 16 23:58 salient
drwx----- 5 ubuntu ubuntu 4096 Apr 14 14:07 utec
drwxrwxr-x 3 ubuntu ubuntu 4096 Apr 15 19:49 web
:∼ $ cd api-users
:~/api-users $ ls -l
total 16
-rw-rw-r-- 1 ubuntu ubuntu 170 Sep 18 2022 Dockerfile
-rw-rw-r-- 1 ubuntu ubuntu 4137 May 7 20:25 app.py
-rw-rw-r-- 1 ubuntu ubuntu 486 Sep 22 2022 db.txt
:~/api-users $ cat app.py
:~/api-users $ _
from flaskext.mysql import MySQL
from flask_restful import Resource, Api
#Create an instance of Flask
app = Flask(<u>__</u>name<u>__</u>)
       23°C
                                                                             O Search
       Parc. soleado
```



## **Exercise 2**

Deployment

For the 2 production VM run container luisfmendezl/api-users

## **Exercise 3**

