

Práctica 05 Contenedor Docker para MySQL

Objetivo

El alumnado deberá de generar contenedor para la base de datos en MySql utilizando Docker

Instrucciones

1. Descargar contenedor Docker de MySql.

```

python 3 ae960359c2a 10 months ago 922MB
postgres latest e09e90144645 10 months ago 376MB
python-docker latest f13173d9ed58 11 months ago 146MB
python-docker-web latest d62213ad05a5 12 months ago 349MB
python-docker-dev latest 96a114ec5ac8 12 months ago 337MB
python 3.8-slim-buster 8efad32061c2 12 months ago 117MB
python 3.8-slim 61c5c6d0b49 12 months ago 124MB

lab1_06@lab1-06:~/pract04$ sudo docker pull mysql:latest
latest: Pulling from library/mysql
46ef6bba3c7: Pull complete
94c1114b2e9c: Pull complete
f1f0e3f380e2: Pull complete
41c3f059912: Pull complete
07bbc8bd52a: Pull complete
60d8f8372d68: Pull complete
c74c70d0377: Pull complete
9db3175a2a66: Pull complete
fead0627f49: Pull complete
c10b7784414: Pull complete
bl770b1c329: Pull complete
Digest: sha256:15f06920248cf801c129423ae3f8f6423306fbf399eaf36094ce30dd75c
Status: Downloaded newer image for mysql:latest
docker.io/library/mysql:latest
lab1_06@lab1-06:~/pract04$ docker run --name mysql-demo -e MYSQL_ROOT_PASSWORD=demo -d -v mysql-demo:/var/lib/mysql mysql:latest
docker: permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Post "http://2fvar2f2run2fdocker.sock/v1.24/containers/create?name=mysql-demo": dial unix /var/run/docker.sock: connect: permission denied.
See 'docker run --help'.
lab1_06@lab1-06:~/pract04$ sudo docker run --name mysql-demo -e MYSQL_ROOT_PASSWORD=demo -d -v mysql-demo:/var/lib/mysql mysql:latest
387720fb7f99e7383b94c57364b7173232a4b5f6f0f38e9c719c05
lab1_06@lab1-06:~/pract04$ docker ps -a
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://2fvar2f2run2fdocker.sock/v1.24/containers/json?all=1": dial unix /var/run/docker.sock: connect: permission denied
lab1_06@lab1-06:~/pract04$ sudo docker ps -a
CONTAINER ID        IMAGE               COMMAND                  CREATED              STATUS              PORTS              NAMES
ae39ec387720fb7f99e7383b94c57364b7173232a4b5f6f0f38e9c719c05    mysql:latest        "docker-entrypoint.s..." 15 seconds ago      Up 14 seconds      3306/tcp, 33060/tcp    mysql-demo
ba53c3448086        node:1.0           "docker-entrypoint.s..." 2 days ago          Exited (0) 2 days ago                                objective_blackwell
1c4e0b05c6a8        exp:node:1.0       "docker-entrypoint.s..." 2 weeks ago         Exited (0) 13 days ago                                amazing_gormain
a53352bc675d        review:1.0         "/docker-entrypoint. ..." 2 weeks ago         Exited (0) 13 days ago                                gifted_edison
g35c5c64712        review:1.0         "/docker-entrypoint. ..." 2 weeks ago         Exited (0) 2 weeks ago                                cranky_pike
80c76257e72a        django.compose.web "python manage.py ru ..." 10 months ago       Exited (0) 10 months ago                             django.compose.web.1
bca9808598a8        postgres           "docker-entrypoint.s..." 10 months ago       Exited (1) 10 months ago                             django.compose.db.1
7424dae52c5        django.web         "python manage.py ru ..." 10 months ago       Exited (0) 10 months ago                             django.web.1
2dc249782e17        postgres           "docker-entrypoint.s..." 10 months ago       Exited (1) 10 months ago                             django.db.1
84c6b9967c0        composedjango.web "python manage.py ru ..." 10 months ago       Exited (0) 10 months ago                             composedjango.web.1
7b4ccc74c0b8        postgres           "docker-entrypoint.s..." 10 months ago       Exited (1) 10 months ago                             composedjango.db.1
e293232b99a8        python-docker       "python3 -m flask ru ..." 11 months ago       Exited (0) 11 months ago                             condescending_heaver
c363603c658        python-docker       "python3 -m flask ru ..." 11 months ago       Exited (0) 11 months ago                             laughing_noyce
lab1_06@lab1-06:~/pract04$

```

2. Ingresar al contenedor.

```

lab1_06@lab1-06:~/pract04$ sudo docker images
REPOSITORY        TAG                IMAGE ID            CREATED             SIZE
node               1.0               c8d2471b99cb       2 days ago         1.11GB
mysql              latest            918336262404       10 days ago        560MB
exp node           1.0               b2cfed405813       2 weeks ago        1.02GB
review             1.0               07c5fc52a84a       2 weeks ago        143MB
<none>             <none>            880772c6c809       2 weeks ago        1.33GB
django.compose.web latest            15d32bea4cd0       10 months ago      1.01GB
django.web         latest            7f55f117b825       10 months ago      1GB
composedjango.web latest            a4404f53332f       10 months ago      1.01GB
python             3                 ae960359c2a        10 months ago      922MB
postgres           latest            e09e90144645       10 months ago      376MB
python-docker       latest            f13173d9ed58       11 months ago      146MB
python-docker-web   latest            d62213ad05a5       12 months ago      349MB
python-docker-dev   latest            96a114ec5ac8       12 months ago      337MB
python             3.8-slim-buster   8efad32061c2       12 months ago      117MB
python             3.8-slim          61c5c6d0b49        12 months ago      124MB

lab1_06@lab1-06:~/pract04$ docker inspect -f '{{(range.NetworkSettings.Networks)}}{{{IPAddress}}}{{end}}' mysql-demo
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://2fvar2f2run2fdocker.sock/v1.24/containers/mysql-demo/json": dial unix /var/run/docker.sock: connect: permission denied
lab1_06@lab1-06:~/pract04$ sudo docker inspect -f '{{(range.NetworkSettings.Networks)}}{{{IPAddress}}}{{end}}' mysql-demo
172.17.0.2
lab1_06@lab1-06:~/pract04$ mysql -h 172.17.0.2 -P 3306 --protocol=tcp -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 13
Server version: 8.0.33 MySQL Community Server - GPL

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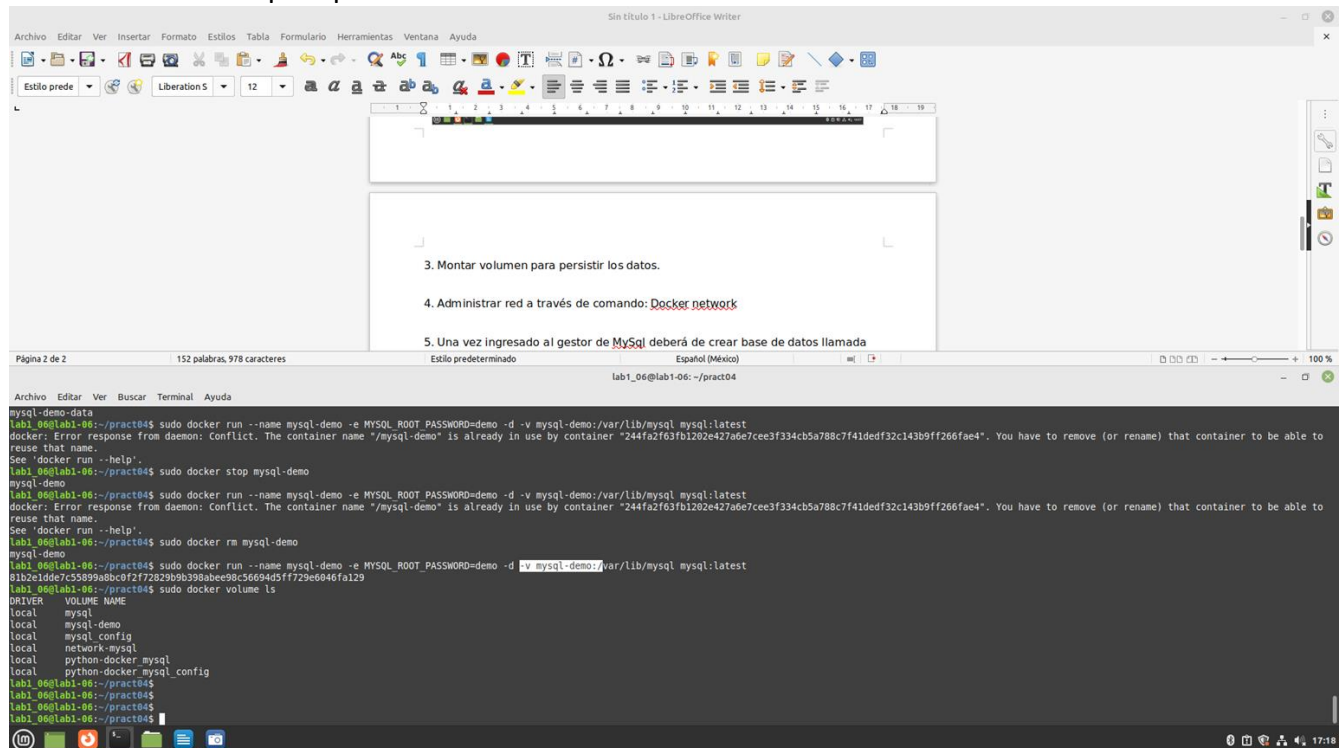
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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

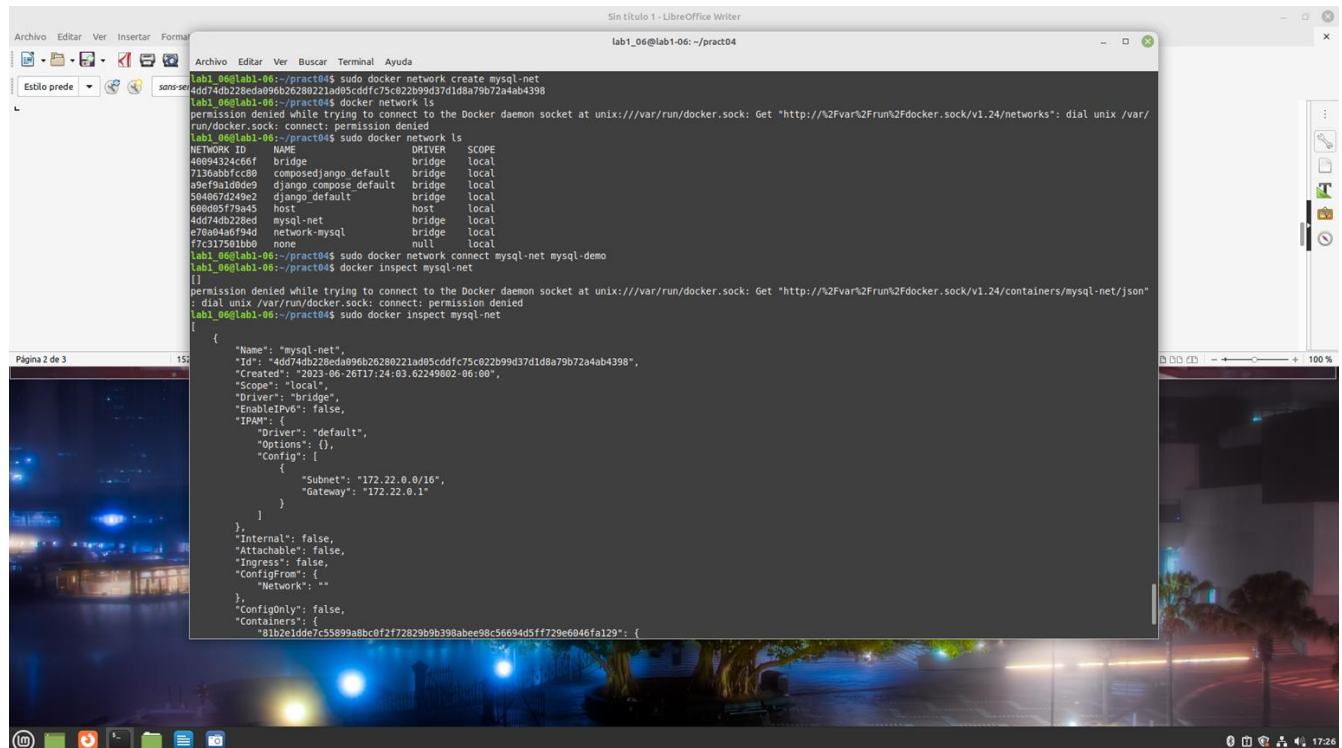
mysql>

```

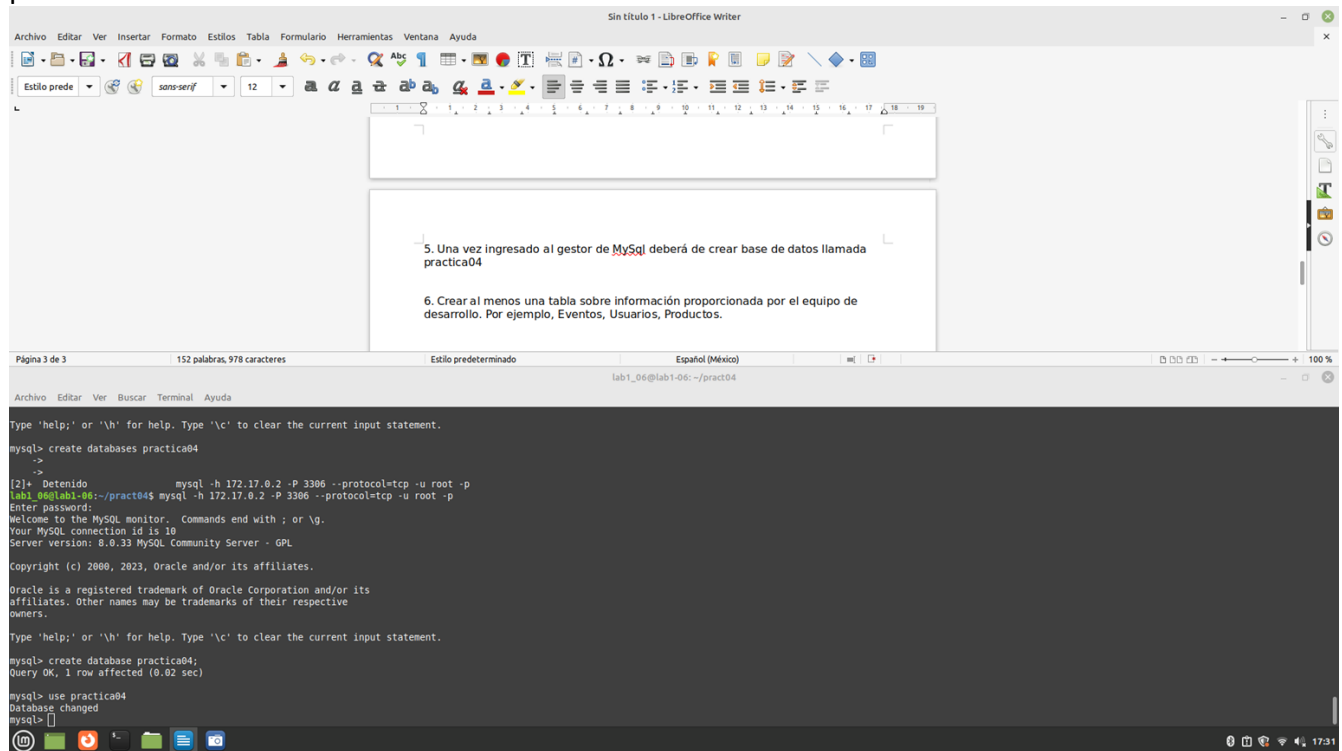
3. Montar volumen para persistir los datos.



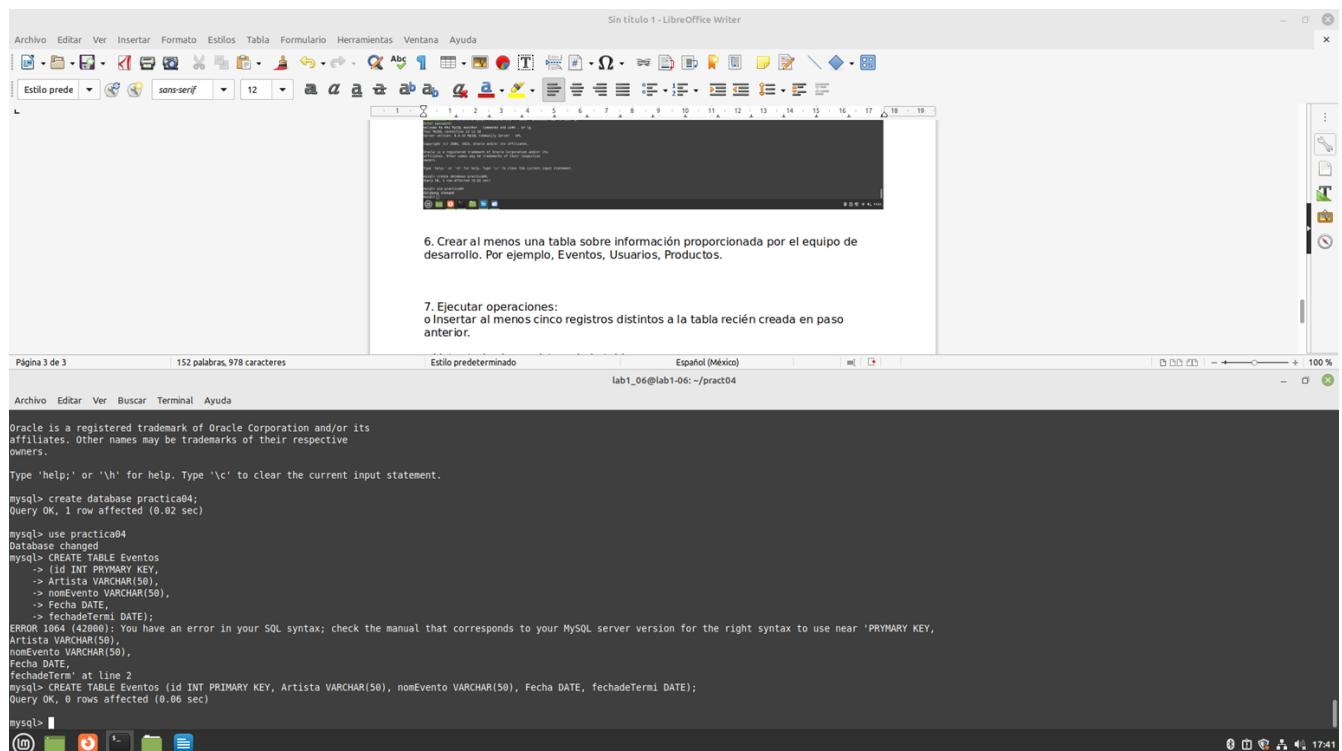
4. Administrar red a través de comando: Docker network



5. Una vez ingresado al gestor de MySql deberá de crear base de datos llamada practica04

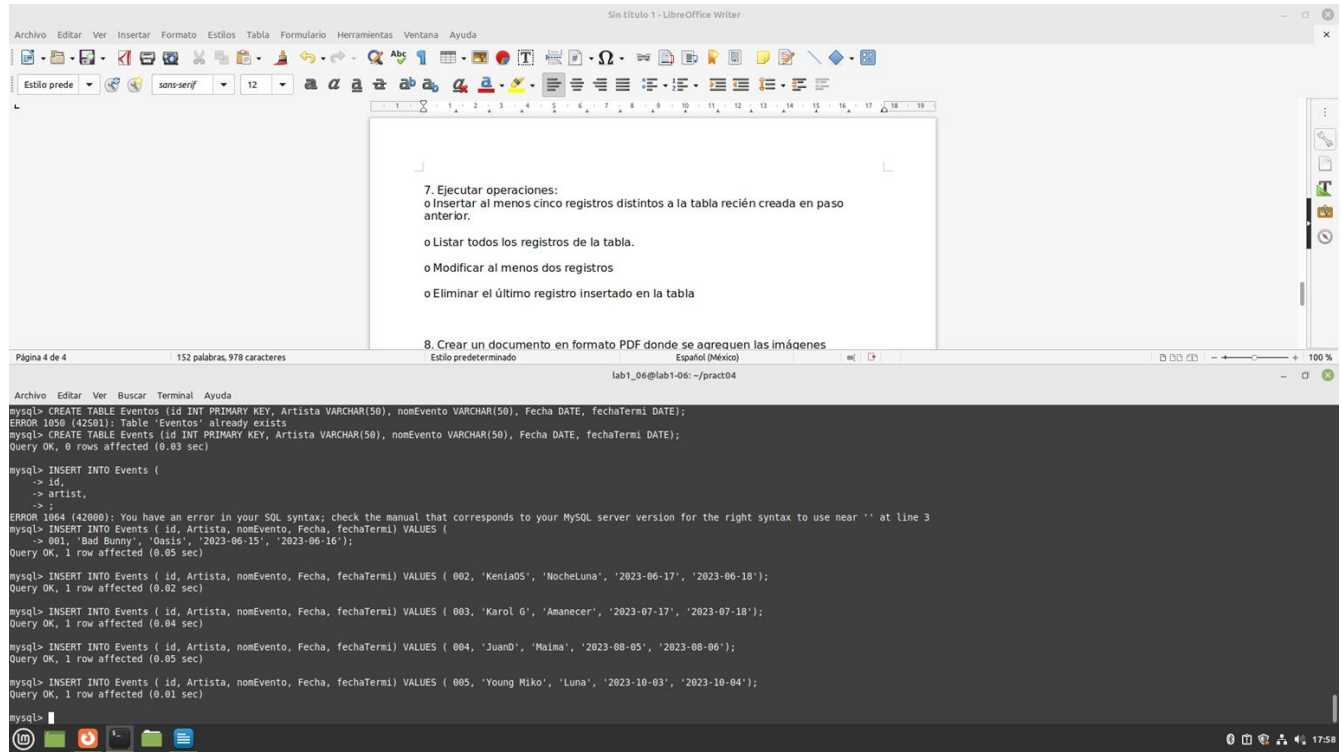


6. Crear al menos una tabla sobre información proporcionada por el equipo de desarrollo. Por ejemplo, Eventos, Usuarios, Productos.



7. Ejecutar operaciones:

o Insertar al menos cinco registros distintos a la tabla recién creada en paso anterior.



o Listar todos los registros de la tabla.

o Modificar al menos dos registros

o Eliminar el último registro insertado en la tabla

8. Crear un documento en formato PDF donde se agreguen las imágenes evidencias de pasos anteriores practica04_[nombre completo].pdf

9. Depositar archivo en carpeta practica04 en repositorio GitHub.