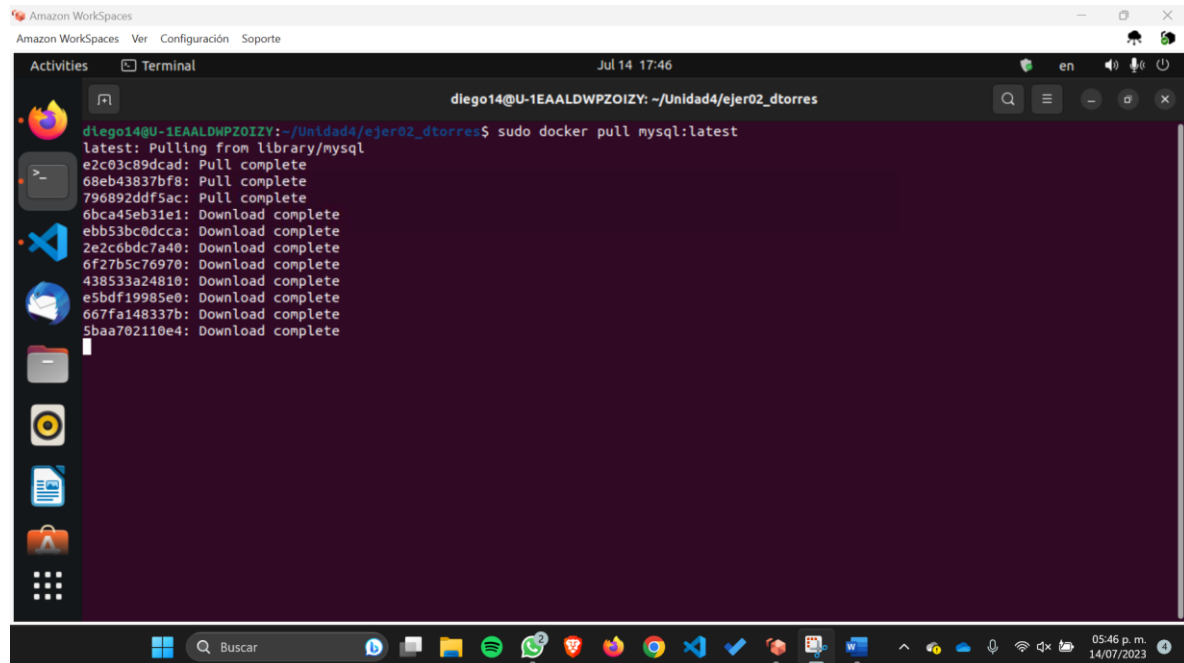


Actividad 3 – MySQL

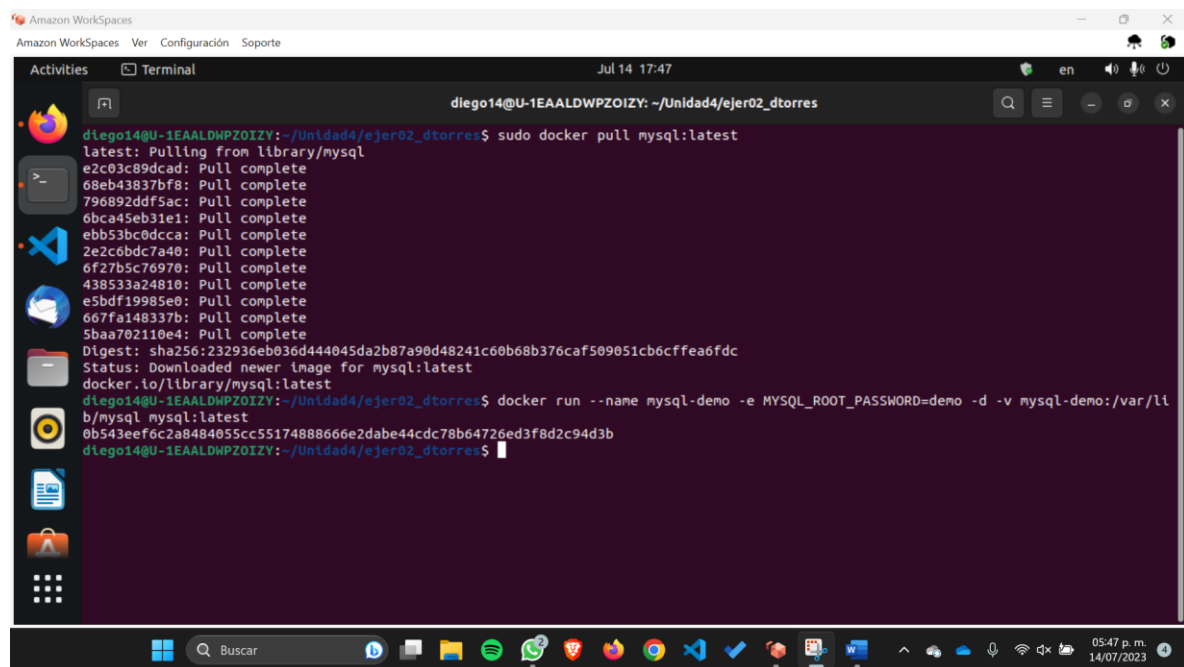
Diego Torres Pérez

Descargar imagen.



```
diego14@U-1EAALDWPZOIZY: ~/Unidad4/ejer02_dtorres
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ sudo docker pull mysql:latest
latest: Pulling from library/mysql
e2c03c89dcad: Pull complete
68eb43837bf8: Pull complete
796892ddf5ac: Pull complete
6bca45eb31e1: Download complete
ebb53bc0dcca: Download complete
2e2c6bdc7a40: Download complete
6f27b5c76970: Download complete
438533a24810: Download complete
e5bdf19985e0: Download complete
667fa148337b: Download complete
5baa702110e4: Download complete
```

Crear imagen.



```
diego14@U-1EAALDWPZOIZY: ~/Unidad4/ejer02_dtorres
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ sudo docker pull mysql:latest
latest: Pulling from library/mysql
e2c03c89dcad: Pull complete
68eb43837bf8: Pull complete
796892ddf5ac: Pull complete
6bca45eb31e1: Pull complete
ebb53bc0dcca: Pull complete
2e2c6bdc7a40: Pull complete
6f27b5c76970: Pull complete
438533a24810: Pull complete
e5bdf19985e0: Pull complete
667fa148337b: Pull complete
5baa702110e4: Pull complete
Digest: sha256:232936eb036d444045da2b87a90d48241c60b68b376caf509051cb6cfea6fdc
Status: Downloaded newer image for mysql:latest
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ docker run --name mysql-demo -e MYSQL_ROOT_PASSWORD=demo -d -v mysql-demo:/var/lib/mysql mysql:latest
0b543eef6c2a8484055cc55174888666e2dabe44cdc78b64726ed3f8d2c94d3b
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$
```

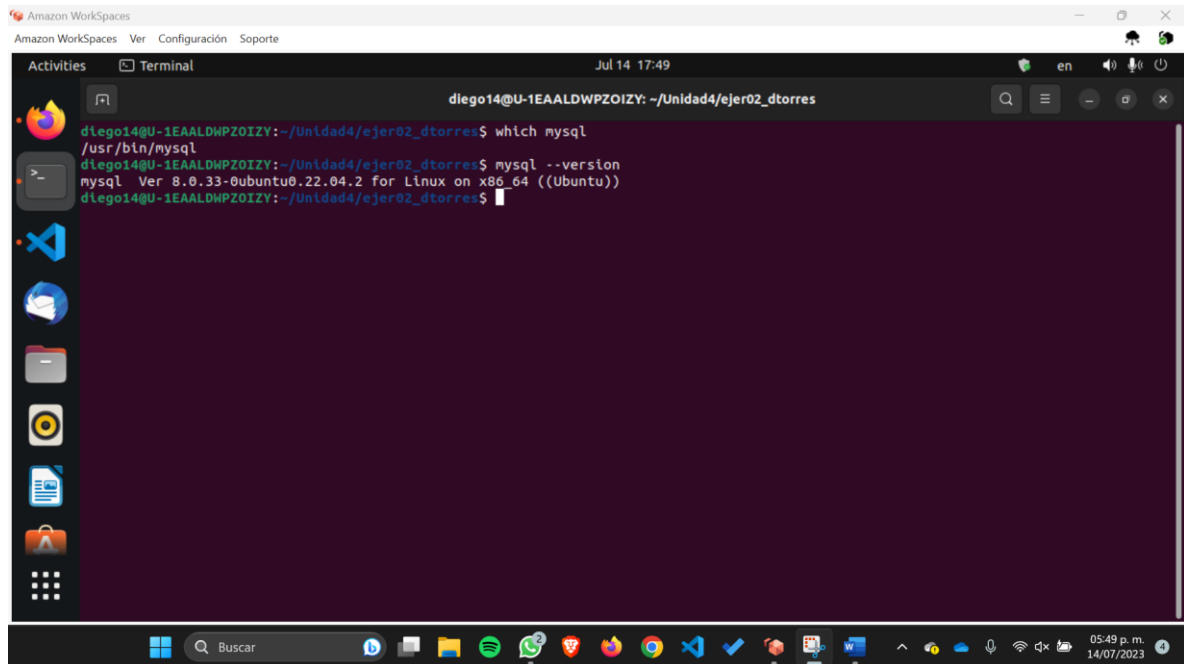
Sudo Docker ps

```
diego14@U-1EAALDWPZOIZY: ~/Unidad4/ejer02_dtorres
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
0b543eef6c2a   mysql:latest "docker-entrypoint.s..." 29 seconds ago Up 29 seconds 3306/tcp, 33060/tcp               mysql-demo
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$
```

Instalar cliente mysql

```
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ sudo apt install mysql-client -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  mysql-client-8.0 mysql-client-core-8.0 mysql-common
The following NEW packages will be installed:
  mysql-client mysql-client-core-8.0 mysql-client-core-8.0 mysql-common
0 upgraded, 4 newly installed, 0 to remove and 24 not upgraded.
Need to get 2,841 kB of archives.
After this operation, 62.1 MB of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-client-core-8.0 amd64 8.0.33-0ubuntu0.22.04.2 [2,802 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 mysql-common all 5.8+1.0.8 [7,212 B]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-client-8.0 amd64 8.0.33-0ubuntu0.22.04.2 [22.7 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-client all 8.0.33-0ubuntu0.22.04.2 [9,358 B]
Fetched 2,841 kB in 0s (20.3 MB/s)
Selecting previously unselected package mysql-client-core-8.0.
(Reading database ... 257138 files and directories currently installed.)
Preparing to unpack .../mysql-client-core-8.0_8.0.33-0ubuntu0.22.04.2_amd64.deb ...
Unpacking mysql-client-core-8.0 (8.0.33-0ubuntu0.22.04.2) ...
Selecting previously unselected package mysql-common.
Preparing to unpack .../mysql-common_5.8+1.0.8_all.deb ...
Unpacking mysql-common (5.8+1.0.8) ...
Selecting previously unselected package mysql-client-8.0.
Preparing to unpack .../mysql-client-8.0_8.0.33-0ubuntu0.22.04.2_amd64.deb ...
Unpacking mysql-client-8.0 (8.0.33-0ubuntu0.22.04.2) ...
Progress: [ 29%] [#####]
```

Habilitar la extracción de instalación y versión de MySQL



Amazon WorkSpaces

Amazon WorkSpaces Ver Configuración Soporte

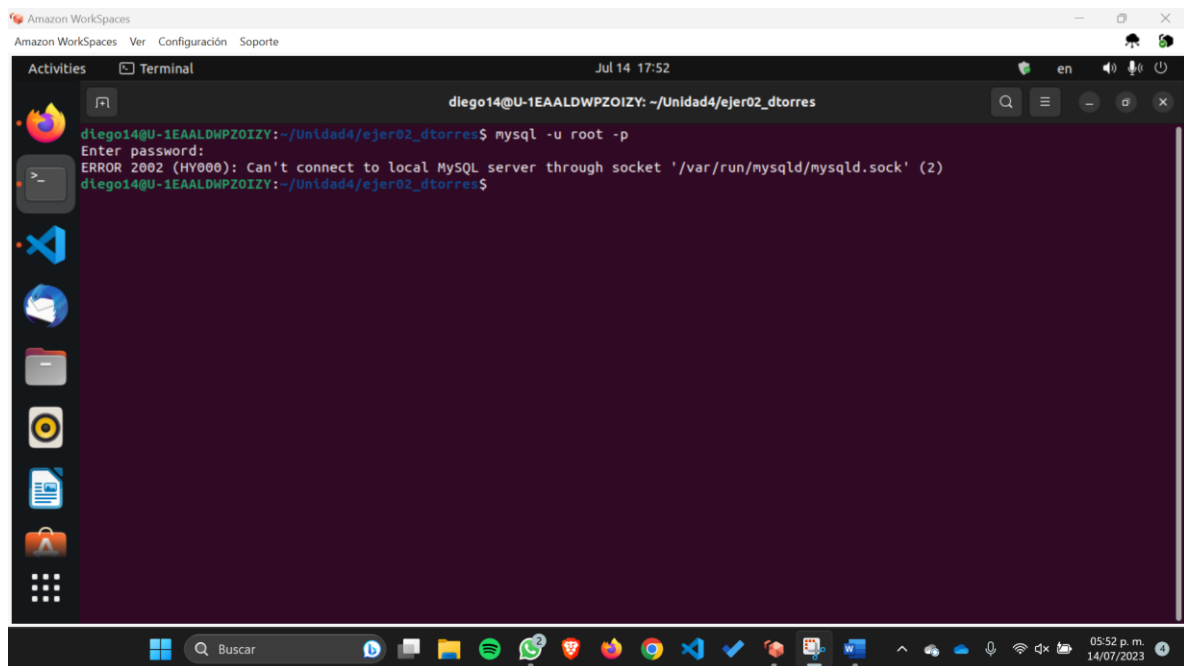
Activities Terminal Jul 14 17:49

diego14@U-1EAALDWPZOIZY: ~/Unidad4/ejer02_dtorres

```
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ which mysql
/usr/bin/mysql
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ mysql --version
mysql Ver 8.0.33-0ubuntu0.22.04.2 for Linux on x86_64 ((Ubuntu))
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$
```

05:49 p. m. 14/07/2023

Establecer conexión.



Amazon WorkSpaces

Amazon WorkSpaces Ver Configuración Soporte

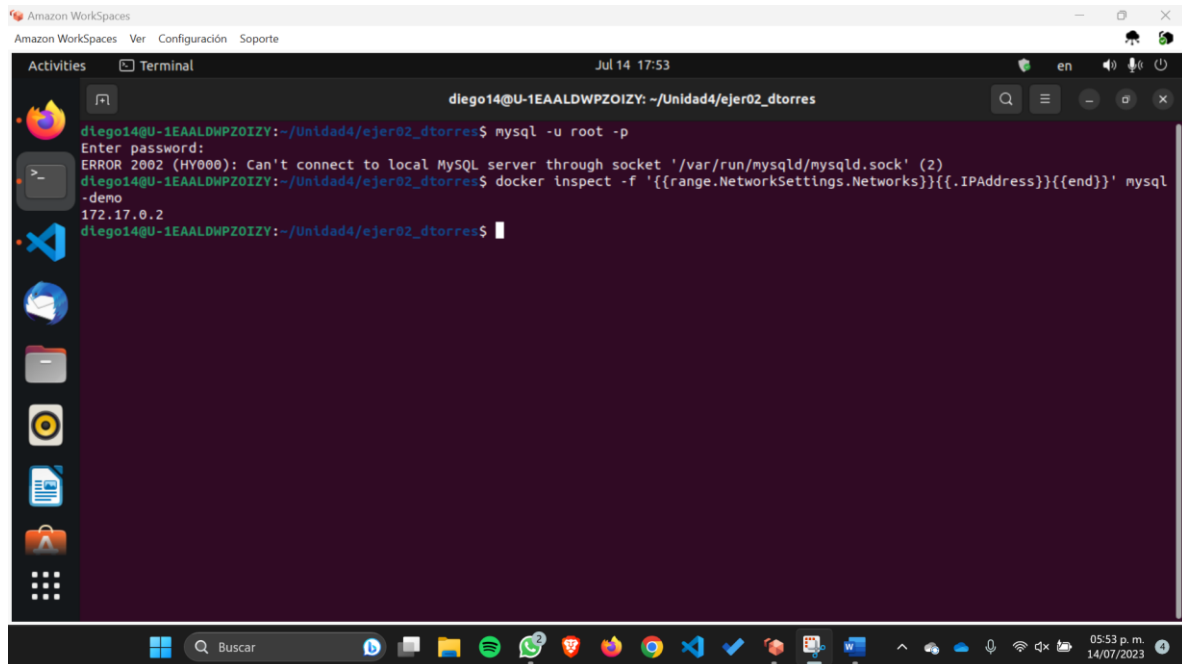
Activities Terminal Jul 14 17:52

diego14@U-1EAALDWPZOIZY: ~/Unidad4/ejer02_dtorres

```
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ mysql -u root -p
Enter password:
ERROR 2002 (HY000): Can't connect to local MySQL server through socket '/var/run/mysqld/mysqld.sock' (2)
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$
```

05:52 p. m. 14/07/2023

Comando de inspección

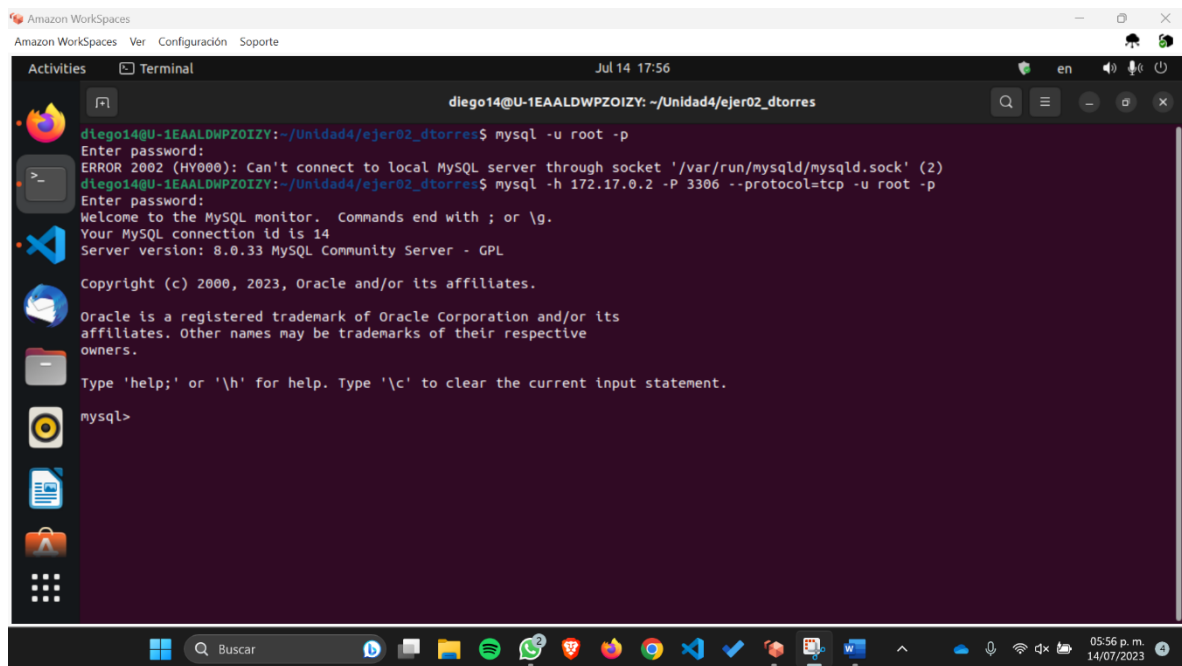


The screenshot shows a terminal window titled "Amazon WorkSpaces" with a menu bar containing "Amazon WorkSpaces", "Ver", "Configuración", and "Soporte". The terminal output is as follows:

```
diego14@U-1EAALDWPZOIZY: ~/Unidad4/ejer02_dtorres
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ mysql -u root -p
Enter password:
ERROR 2002 (HY000): Can't connect to local MySQL server through socket '/var/run/mysqld/mysqld.sock' (2)
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ docker inspect -f '{{range.NetworkSettings.Networks}}{{.IPAddress}}{{end}}' mysql
172.17.0.2
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$
```

The terminal window has a sidebar with application icons and a taskbar at the bottom with a search bar labeled "Buscar" and system status icons.

Conectarse



The screenshot shows the same terminal window after a successful connection. The terminal output is as follows:

```
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ mysql -u root -p
Enter password:
ERROR 2002 (HY000): Can't connect to local MySQL server through socket '/var/run/mysqld/mysqld.sock' (2)
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ 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 14
Server version: 8.0.33 MySQL Community Server - GPL

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql>
```

The terminal window interface remains the same, with the sidebar and taskbar visible.

Mostrar bases de datos

```
Amazon WorkSpaces
Amazon WorkSpaces Ver Configuración Soporte

Activities Terminal Jul 14 17:58
diego14@U-1EAALDWPZOIZY: ~/Unidad4/ejer02_dtorres

diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ mysql -u root -p
Enter password:
ERROR 2002 (HY000): Can't connect to local MySQL server through socket '/var/run/mysqld/mysqld.sock' (2)
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ 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 14
Server version: 8.0.33 MySQL Community Server - GPL

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> show databases
+-----+
| Database |
+-----+
| information_schema |
| mysql      |
| performance_schema |
| sys        |
+-----+
4 rows in set (0.01 sec)

mysql>
```

Crear base de datos

```
Amazon WorkSpaces
Amazon WorkSpaces Ver Configuración Soporte

Activities Terminal Jul 14 17:59
diego14@U-1EAALDWPZOIZY: ~/Unidad4/ejer02_dtorres

diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ 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 14
Server version: 8.0.33 MySQL Community Server - GPL

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

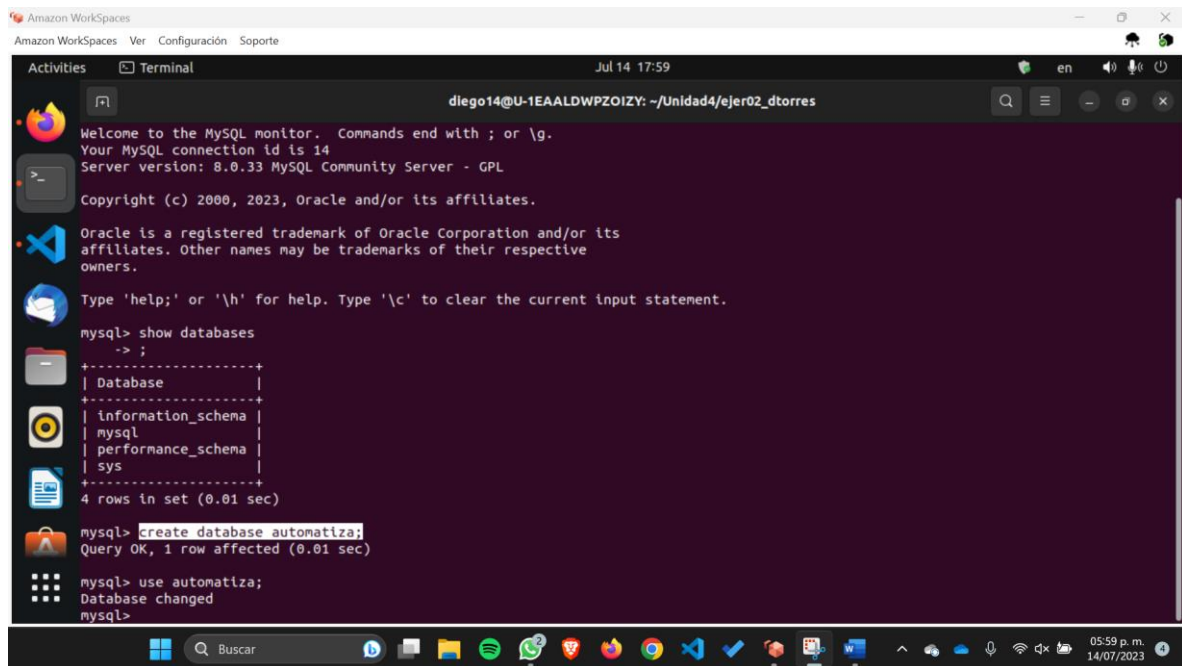
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases
+-----+
| Database |
+-----+
| information_schema |
| mysql      |
| performance_schema |
| sys        |
+-----+
4 rows in set (0.01 sec)

mysql> create database automatiza;
Query OK, 1 row affected (0.01 sec)

mysql>
```

Usar base de datos



Amazon WorkSpaces

Amazon WorkSpaces Ver Configuración Soporte

Activities Terminal Jul 14 17:59

diego14@U-1EAALDWPZOIZY: ~/Unidad4/ejer02_dtorres

```
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 14
Server version: 8.0.33 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

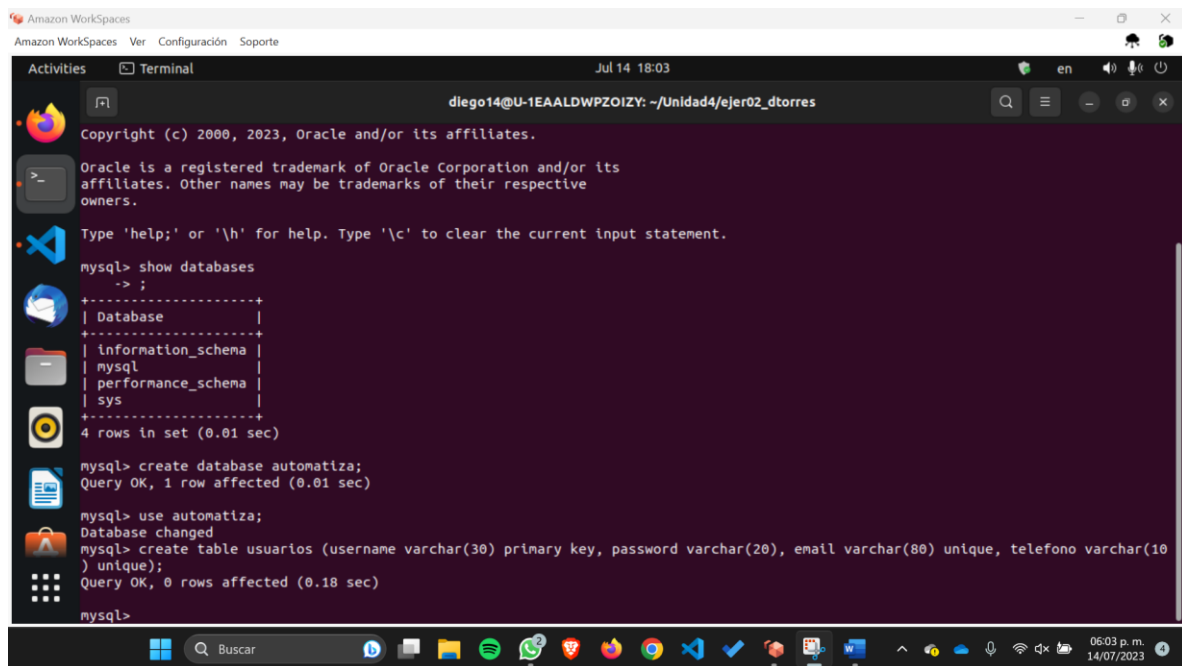
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases
-> ;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.01 sec)

mysql> create database automatiza;
Query OK, 1 row affected (0.01 sec)

mysql> use automatiza;
Database changed
mysql>
```

Crear tabla



Amazon WorkSpaces

Amazon WorkSpaces Ver Configuración Soporte

Activities Terminal Jul 14 18:03

diego14@U-1EAALDWPZOIZY: ~/Unidad4/ejer02_dtorres

```
Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> show databases
-> ;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.01 sec)

mysql> create database automatiza;
Query OK, 1 row affected (0.01 sec)

mysql> use automatiza;
Database changed
mysql> create table usuarios (username varchar(30) primary key, password varchar(20), email varchar(80) unique, telefono varchar(10) unique);
Query OK, 0 rows affected (0.18 sec)

mysql>
```

Salir

```
Amazon WorkSpaces
Amazon WorkSpaces Ver Configuración Soporte

Activities Terminal Jul 14 18:04
diego14@U-1EAALDWPZOIZY: ~/Unidad4/ejer02_dtorres

+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.01 sec)

mysql> create database automatiza;
Query OK, 1 row affected (0.01 sec)

mysql> use automatiza;
Database changed
mysql> create table usuarios (username varchar(30) primary key, password varchar(20), email varchar(80) unique, telefono varchar(10) unique);
Query OK, 0 rows affected (0.18 sec)

mysql> select * from usuarios;
Empty set (0.01 sec)

mysql> clear
mysql> ;
ERROR:
No query specified

mysql> quit
Bye
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$
```

Parar contenedor

```
Amazon WorkSpaces
Amazon WorkSpaces Ver Configuración Soporte

Activities Terminal Jul 14 18:05
diego14@U-1EAALDWPZOIZY: ~/Unidad4/ejer02_dtorres

+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.01 sec)

mysql> create database automatiza;
Query OK, 1 row affected (0.01 sec)

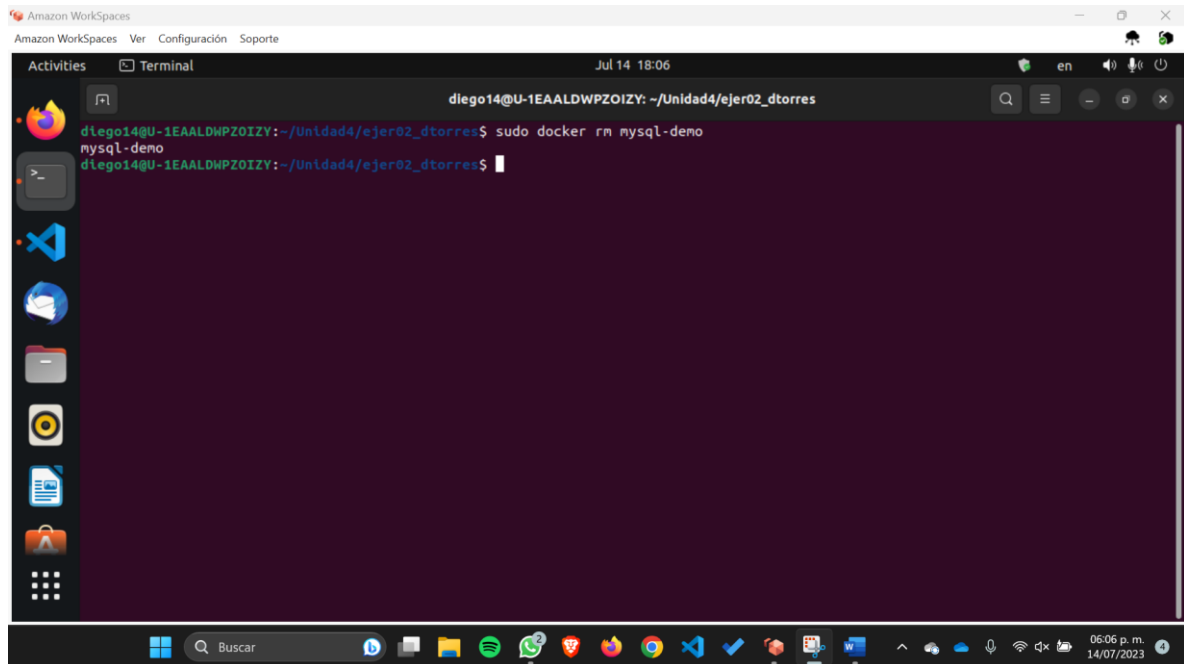
mysql> use automatiza;
Database changed
mysql> create table usuarios (username varchar(30) primary key, password varchar(20), email varchar(80) unique, telefono varchar(10) unique);
Query OK, 0 rows affected (0.18 sec)

mysql> select * from usuarios;
Empty set (0.01 sec)

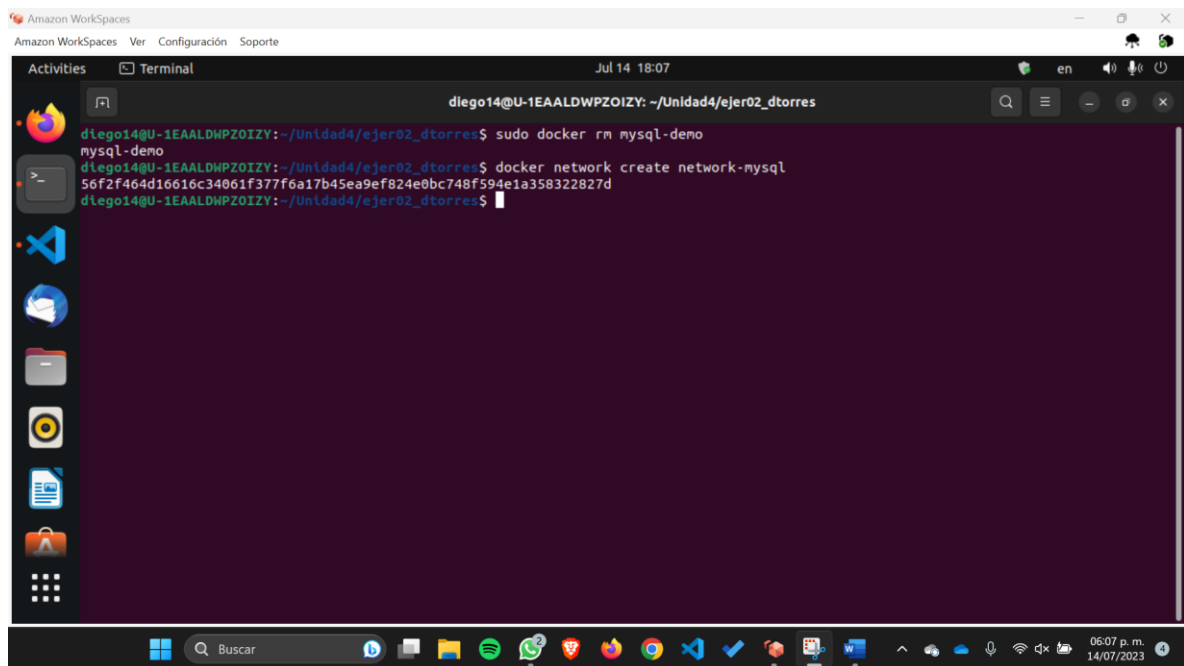
mysql> clear
mysql> ;
ERROR:
No query specified

mysql> quit
Bye
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ sudo docker stop mysql-demo
[sudo] password for diego14:
mysql-demo
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$
```

Eliminar contenedor



Crear contenedor de red



Contenedor con referencia a internet

Amazon WorkSpaces

Amazon WorkSpaces Ver Configuración Soporte

Activities Terminal Jul 14 18:10 en

```
diego14@U-1EAALDWPZOIZY: ~/Unidad4/ejer02_dtorres
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ sudo docker rm mysql-demo
mysql-demo
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ docker network create network-mysql
56f2f464d16616c34061f377f6a17b45ea9ef824e0bc748f594e1a358322827d
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$ docker run --name network-mysql -e MYSQL_ROOT_PASSWORD=demo -d -v mysql-demo:/var
/lib/mysql mysql:latest --network network-mysql \
>
5386657b83e3d695d1732c343c4764d35ccb0a18d29edd39502017b78518612b
diego14@U-1EAALDWPZOIZY:~/Unidad4/ejer02_dtorres$
```

06:10 p. m.
14/07/2023