

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.

```
lab1-03@lab1-03: ~$ docker pull mysql:latest
Cannot connect to the Docker daemon at unix:///home/lab1-03/.docker/desktop/docker.sock. Is the docker daemon running?
lab1-03@lab1-03: ~$ sudo docker pull mysql:latest
latest: Pulling from library/mysql
Digest: sha256:15f069202c46cf861ce429423ae3f8dfa6423306fbf399eaf36094ce30dd75c
Status: Image is up to date for mysql:latest
docker.io/library/mysql:latest
lab1-03@lab1-03: ~$ sudo docker rmi mysql:latest
Untagged: mysql:latest
Deleted: sha256:15f069202c46cf861ce429423ae3f8dfa6423306fbf399eaf36094ce30dd75c
Deleted: sha256:91b53e26240431e562ed907699a586c5e78387f2cb4dad968f051ade8398aa1
Deleted: sha256:29fa1268c0126f0998677211dc486d6a1b1ab4a9556a0974990fcedda7b488
Deleted: sha256:f271de7413df4881b2d3607b02453c1c06d9664fc1d93c5b1d3608381b4b94d
Deleted: sha256:974dc031751c2282d328963dc22bfc52cc1cfa840091207026c3218d1bd6ff0
Deleted: sha256:50497a1d54548384f46f61c2623218d130302f1b0feef1c08a101715f1026285
Deleted: sha256:cbfdb307419c4d9a481c2076c692a1e3ecb1da3e4069a8a6486c2029e7d65d
Deleted: sha256:0cc34805f7a13b6a3e1c8853fc8e483c8805e8cfe7de93da14036472627cbe
Deleted: sha256:6e01ff5e5d41ba0fdd448cef4d4ac3ca236ff967f93e140882320d423ff8cd4
Deleted: sha256:c3e4c2e6d3e3a513f133b105febe0e52b278c70f9630545c6325031c116915
Deleted: sha256:3d55a8640729c38dc4b3ab7d5c9ac050c7538121f9617fa3fb5fd3bc2af277
Deleted: sha256:91c495d5f32a501a8b966be1b97fbf1df2810f7198de113b9b0d661c5e7714c
Deleted: sha256:fa499cc7379fed2c0f59713f710dda8a8227be84f612f6c1d197e3da1bf4ae
lab1-03@lab1-03: ~$ sudo docker pull mysql:latest
latest: Pulling from library/mysql
46ef68baacb7: Pull complete
94c114b2ebc: Pull complete
ff0e63f38802: Pull complete
41cc3fd9912: Pull complete
07bbc8bdf52a: Pull complete
6d08f83726a9: Pull complete
cfc7d5d3317: Pull complete
9db3175a2a66: Pull complete
feadeb27fa9: Pull complete
cf93e7784414: Pull complete
b1778d3c329: Pull complete
Digest: sha256:15f069202c46cf861ce429423ae3f8dfa6423306fbf399eaf36094ce30dd75c
Status: Downloaded newer image for mysql:latest
docker.io/library/mysql:latest
lab1-03@lab1-03: ~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eno2: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 2c:f0:5d:49:b4:4b brd ff:ff:ff:ff:ff:ff
    altname enp0s31f6
    inet 172.16.12.109/24 brd 172.16.12.255 scope global dynamic noprefixroute eno2
        valid_lft 3183sec preferred_lft 3183sec
    inet6 fe80::8dc:c77c:3a3b/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
3: wlo1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
    link/ether 98:af:6b:04:c1:55 brd ff:ff:ff:ff:ff:ff
    altname wlp0s20f3
    inet 172.16.2.50/24 brd 172.16.2.255 scope global dynamic noprefixroute wlo1
        valid_lft 1744sec preferred_lft 1744sec
    inet6 fe80::a87:50c:1a3c:80b/64 scope link noprefixroute
```

2. Ingresar al contenedor.

```
lab1-03@lab1-03: ~
mysql> exit
Bye
lab1-03@lab1-03: ~$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED    STATUS    PORTS    NAMES
9315ba79ebef   mysql:latest "docker-entrypoint.s..." 4 minutes ago Up 4 minutes 3306/tcp, 33060/tcp   mysql-demo
9315ba79ebef
lab1-03@lab1-03: ~$ sudo docker rm 9315ba79ebef
9315ba79ebef
lab1-03@lab1-03: ~$ sudo docker volume create mysql-db-data
mysql-db-data
lab1-03@lab1-03: ~$ docker volume ls
Cannot connect to the Docker daemon at unix:///home/lab1-03/.docker/desktop/docker.sock. Is the docker daemon running?
lab1-03@lab1-03: ~$ sudo docker volume ls
DRIVER      VOLUME NAME
local       2ef62a0d4e7f69ed01e1c72213f5e7ccc7455c7f422aaa7dee6d6d1b4867f
local       3109c8c53c8658436e0f2596ea77e082cb144708c73c55ae42d3a283082e3100
local       0990561e3c51763b01d6d47ee4137d14cd8c1b0189754278f89e4d1058cc0e7f
local       mysql
local       mysql-db-data
local       mysql-demo
local       mysql_config
local       python-docker_mysql
local       python-docker_mysql_config
lab1-03@lab1-03: ~$ docker network ls
Cannot connect to the Docker daemon at unix:///home/lab1-03/.docker/desktop/docker.sock. Is the docker daemon running?
lab1-03@lab1-03: ~$ sudo docker network ls
NETWORK ID    NAME        DRIVER    SCOPE
21807a8bb4dc  bridge     bridge    local
636a801585e2  django_compose_default bridge    local
0a459126790e  host       host      local
230b212e4d30  mysqlnet   bridge    local
faaf4211bff  network-mysql bridge    local
695f7774a79  none       null       local
0a7d2c61cadb  python-docker_default bridge    local
lab1-03@lab1-03: ~$ sudo docker run --name mysql-demo -e MYSQL_ROOT_PASSWORD=demo -d -v mysql-demo:/var/lib/mysql --network network-mysql mysql:latest
199747aca6e0ffcdede994c41caf5b96d6cb788eb2c7c815c7f9278e13e
lab1-03@lab1-03: ~$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED    STATUS    PORTS    NAMES
199747aca6e0   mysql:latest "docker-entrypoint.s..." 4 seconds ago Up 4 seconds 3306/tcp, 33060/tcp   mysql-demo
lab1-03@lab1-03: ~$ sudo docker inspect -f '{{range.NetworkSettings.Networks}}{{.IPAddress}}{{end}}' mysql-demo
172.21.0.2
lab1-03@lab1-03: ~$ mysql -h 172.21.0.2 -P 3306 --protocol=TCP -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.33 MySQL Community Server - GPL

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

mysql>
```

3. Montar volumen para persistir los datos.

```
lab1-03@lab1-03: ~
Component 'doesn't exist
2023-06-26T22:42:34.400199Z 0 [Warning] [MY-013129] [Server] A message intended for a client cannot be sent there as no client-session is attached. Therefore, we're sending the information to the error-log instead: MY-003543 - The mysql.c
component table is missing or has an incorrect definition.
2023-06-26T22:42:34.400440Z 0 [ERROR] [MY-000069] [Server] /usr/sbin/mysqld: unknown option '-d'.
2023-06-26T22:42:34.400664Z 0 [ERROR] [MY-010119] [Server] Aborting
2023-06-26T22:42:35.854019Z 0 [System] [MY-010910] [Server] /usr/sbin/mysqld: Shutdown complete (mysqld 8.0.33) MySQL Community Server - GPL.
lab1-03@lab1-03: ~$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED    STATUS    PORTS    NAMES
690a08a0344   mysql    "docker-entrypoint.s..." 13 seconds ago Exited (1) 10 seconds ago          mysql-demo
55c01b73ad77   front:4.0 "/docker-entrypoint.s..." 2 days ago Exited (0) 2 days ago          gallant_wescoff
a49e47a06e0    front:4.0 "/docker-entrypoint.s..." 2 days ago Created          determined_curran
230b9f45c855   front:4.0 "/docker-entrypoint.s..." 2 days ago Created          adoring_swartz
732a8164332c   express-node:1.0 "docker-entrypoint.s..." 2 weeks ago Exited (0) 10 days ago 0.0.0.0:3000->3000/tcp, :::3000->3000/tcp serene_thompson
26b999911285   review:1.0 "/docker-entrypoint.s..." 2 weeks ago Exited (0) 2 weeks ago 0.0.0.0:8082->80/tcp, :::8082->80/tcp reverent_montalcini
lab1-03@lab1-03: ~$ sudo docker stop 690a08a0344
690a08a0344
lab1-03@lab1-03: ~$ sudo docker run --name mysql-demo -e MYSQL_ROOT_PASSWORD=demo -v mysql-demo:/var/lib/mysql --network network-mysql mysql:latest
lab1-03@lab1-03: ~$ sudo docker run --name mysql-demo -e MYSQL_ROOT_PASSWORD=demo -d -v mysql-demo:/var/lib/mysql --network network-mysql mysql:latest
docker: Error response from daemon: Conflict. The container name "mysql-demo" is already in use by container "690a08a034453fee443ac72bc22a8d98843e8385cd1650787b795a06f641". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.
lab1-03@lab1-03: ~$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED    STATUS    PORTS    NAMES
690a08a0344   mysql    "docker-entrypoint.s..." 2 minutes ago Exited (1) 2 minutes ago          mysql-demo
55c01b73ad77   front:4.0 "/docker-entrypoint.s..." 2 days ago Exited (0) 2 days ago          gallant_wescoff
a49e47a06e0    front:4.0 "/docker-entrypoint.s..." 2 days ago Created          determined_curran
230b9f45c855   front:4.0 "/docker-entrypoint.s..." 2 days ago Created          adoring_swartz
732a8164332c   express-node:1.0 "docker-entrypoint.s..." 2 weeks ago Exited (0) 10 days ago 0.0.0.0:3000->3000/tcp, :::3000->3000/tcp serene_thompson
26b999911285   review:1.0 "/docker-entrypoint.s..." 2 weeks ago Exited (0) 2 weeks ago 0.0.0.0:8082->80/tcp, :::8082->80/tcp reverent_montalcini
lab1-03@lab1-03: ~$ sudo docker rm 690a08a0344
690a08a0344
lab1-03@lab1-03: ~$ sudo docker run --name mysql-demo -e MYSQL_ROOT_PASSWORD=demo -d -v mysql-demo:/var/lib/mysql --network network-mysql mysql:latest
cf8915a396a025581bf9deaa8991202613ac0bc7bc7d4634cb8807f978e53d
lab1-03@lab1-03: ~$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED    STATUS    PORTS    NAMES
cf8915a396a0   mysql:latest "docker-entrypoint.s..." 3 seconds ago Up 2 seconds 3306/tcp, 33060/tcp   mysql-demo
lab1-03@lab1-03: ~$ sudo docker inspect -f '{{range.NetworkSettings.Networks}}{{.IPAddress}}{{end}}' mysql-demo
172.21.0.2
lab1-03@lab1-03: ~$ mysql -h 172.21.0.2 -P 3306 --protocol=TCP -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.33 MySQL Community Server - GPL

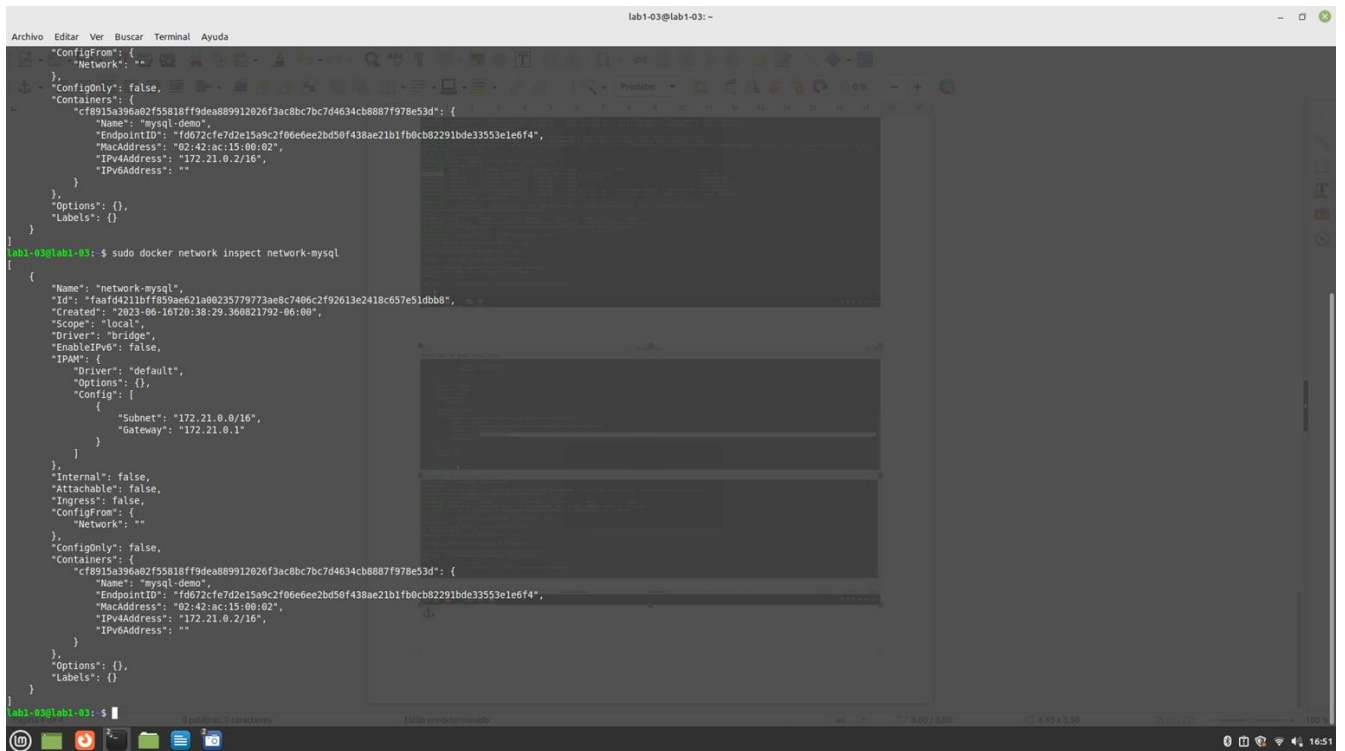
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owners.

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

mysql>
```

4. Administrar red a través de comando: [Docker network](#)



The screenshot shows a terminal window with a menu bar (Archivo, Editar, Ver, Buscar, Terminal, Ayuda) and a title bar (lab1-03@lab1-03: ~). The terminal displays the following content:

```

{
  "ConfigFrom": {
    "Network": ""
  },
  "ConfigOnly": false,
  "Containers": {
    "cf8915a396a02f55818ff9dea889912026f3ac8bc7bc7d4634cb8887f978e53d": {
      "Name": "mysql-demo",
      "EndpointID": "fd672cfe7d2e15a9c2f86e6ee2bd50f438ae21b1fb0cb82291bde33553e1e6f4",
      "MacAddress": "02:42:ac:15:00:02",
      "IPv4Address": "172.21.0.2/16",
      "IPv6Address": ""
    }
  },
  "Options": {},
  "Labels": {}
}
}

lab1-03@lab1-03: $ sudo docker network inspect network-mysql
[
  {
    "Name": "network-mysql",
    "Id": "faaf4d211bfff859ae621a0023577973ae8c7466c2f92613e2418c657e51dbb8",
    "Created": "2023-06-16T20:38:29.308021792-06:00",
    "Scope": "local",
    "Driver": "bridge",
    "EnableIPv6": false,
    "IPAM": {
      "Driver": "default",
      "Options": {},
      "Config": [
        {
          "Subnet": "172.21.0.0/16",
          "Gateway": "172.21.0.1"
        }
      ]
    },
    "Internal": false,
    "Attachable": false,
    "Ingress": false,
    "ConfigFrom": {
      "Network": ""
    },
    "ConfigOnly": false,
    "Containers": {
      "cf8915a396a02f55818ff9dea889912026f3ac8bc7bc7d4634cb8887f978e53d": {
        "Name": "mysql-demo",
        "EndpointID": "fd672cfe7d2e15a9c2f86e6ee2bd50f438ae21b1fb0cb82291bde33553e1e6f4",
        "MacAddress": "02:42:ac:15:00:02",
        "IPv4Address": "172.21.0.2/16",
        "IPv6Address": ""
      }
    },
    "Options": {},
    "Labels": {}
  }
]

```

The terminal window also shows a status bar at the bottom with icons for terminal, file manager, and other applications, along with system information like "0 palabras en 0 caracteres" and "100%".

5. Una vez ingresado al gestor de MySQL deberá de crear base de datos llamada [practica04](#)

```
lab1-03@lab1-03: ~  
$ sudo docker rm 690a08a00344  
690a08a00344  
$ sudo docker run --name mysql-demo -e MYSQL_ROOT_PASSWORD=demo -d -v mysql-demo:/var/lib/mysql --network network-mysql mysql:latest  
cf8915a396a02f5581d7f9de889912026f3ac8bc7bc7d4634cb8897f978e53d  
$ sudo docker ps  
CONTAINER ID   IMAGE     COMMAND                  CREATED      STATUS      PORTS      NAMES  
cf8915a396a0   mysql:latest   "docker-entrypoint.s..." 3 seconds ago Up 2 seconds 3306/tcp, 33060/tcp   mysql-demo  
172.21.0.2  
$ sudo docker inspect -f '{{range.NetworkSettings.Networks}}{{.IPAddress}}{{end}}' mysql-demo  
172.21.0.2  
$ mysql -h 172.21.0.2 -P 3306 --protocol=tcp -u root -p  
Enter password:  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 8  
Server version: 8.0.33 MySQL Community Server - GPL  
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owners.  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
mysql> create database practica04;  
Query OK, 1 row affected (0.02 sec)  
mysql> show databases;  
+-----+  
| Database |  
+-----+  
| automiza |  
| information_schema |  
| mysql |  
| performance_schema |  
| practica04 |  
| sys |  
+-----+  
6 rows in set (0.01 sec)  
mysql> use database practica04;  
ERROR 1049 (42000): Unknown database 'database'  
mysql> use practica04;  
Database changed  
mysql> show databases;  
+-----+  
| Database |  
+-----+  
| automiza |  
| information_schema |  
| mysql |  
| performance_schema |  
| practica04 |  
| sys |  
+-----+  
6 rows in set (0.00 sec)  
mysql>
```

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

```
lab1-03@lab1-03: ~  
$ mysql -h 172.21.0.2 -P 3306 --protocol=tcp -u root -p  
Enter password:  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 8  
Server version: 8.0.33 MySQL Community Server - GPL  
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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 |  
+-----+  
| automiza |  
| information_schema |  
| mysql |  
| performance_schema |  
| practica04 |  
| sys |  
+-----+  
6 rows in set (0.01 sec)  
mysql> use database practica04;  
Database changed  
mysql> show databases;  
+-----+  
| Database |  
+-----+  
| automiza |  
| information_schema |  
| mysql |  
| performance_schema |  
| practica04 |  
| sys |  
+-----+  
6 rows in set (0.00 sec)  
mysql> CREATE TABLE Usuarios (  
-> id INT AUTO INCREMENT PRIMARY KEY,  
-> name VARCHAR(255) NOT NULL,  
-> email VARCHAR(255) NOT NULL,  
-> confirmed TINYINT(1) NOT NULL DEFAULT 0,  
-> emailVerified VARCHAR(255),  
-> multiFactorAuthentication VARCHAR(255),  
-> fatherLastName VARCHAR(255),  
-> motherLastName VARCHAR(255),  
-> age INT,  
-> dateBirth DATETIME,  
-> avatar VARCHAR(255)  
-> );  
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'AUTO_INCREMENT PRIMARY KEY, name VARCHAR(255) NOT NULL, email VARCHAR(255) NOT NULL, at line 2  
mysql> CREATE TABLE Usuarios (  
-> id INT AUTO INCREMENT PRIMARY KEY,  
-> name VARCHAR(255) NOT NULL,  
-> email VARCHAR(255) NOT NULL,  
-> confirmed TINYINT(1) NOT NULL DEFAULT 0,  
-> emailVerified VARCHAR(255),  
-> multiFactorAuthentication VARCHAR(255),  
-> fatherLastName VARCHAR(255),  
-> motherLastName VARCHAR(255),  
-> age INT,  
-> dateBirth DATETIME,  
-> avatar VARCHAR(255)  
-> );  
Query OK, 0 rows affected, 1 warning (0.06 sec)  
mysql>
```

Browser window showing Swagger UI for 172.16.2.142:8081/swagger-ui/index.html. The page displays three JSON schemas:

```
numLike integer($int32)
multimedia string
share string
user User > {...}
}
```

```
ResponsePost {
  status string
  message string
  list > [...]
  count integer($int32)
  data Post > {...}
}
```

```
User {
  idUser integer($int32)
  name string
  email string
  password string
  confirmed boolean
  emailVerified string
  multiFactorAuthentication string
  fatherLastName string
  motherLastName string
  age integer($int32)
  dateBirth string($date-time)
  avatar string
}
```

The browser's taskbar at the bottom shows the system clock as 05:50 p. m. on 26/06/2023, with a temperature of 29°C and weather conditions of Mayorm. soleado.

7. Ejecutar operaciones:

- Insertar al menos cinco registros distintos a la tabla recién creada en paso anterior.
- Listar todos los registros de la tabla.
- Modificar al menos dos registros
- Eliminar el último registro insertado en la tabla

```

lab1-03@lab1-03:~$
Archivo Editar Ver Buscar Terminal Ayuda
-> ('Usuario4','usuario4@example.com',1,'verified','disabled','ApellidoPadre4','ApellidoMadre4',40,'1983-09-20','avatar4.jpg'),
-> ('Usuario5','usuario5@example.com',0,'pending','disabled','ApellidoPadres','ApellidoMadre5',45,'1978-11-25','avatar5.jpg');
Query OK, 5 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM usuarios;
ERROR 1146 (42502): Table 'practica4.usuarios' doesn't exist
mysql> SELECT * FROM Usuarios;

+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| id | name | email | confirmed | emailVerified | multiFactorAuthentication | fatherLastName | motherLastName | age | dateBirth | avatar |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Alejandro | alejandro@gmail.com | 1 | verified | enabled | Tadeo | Martinez | 26 | 2000-08-03 00:00:00 | avatar1.jpg | |
| 2 | Usuario2 | usuario2@example.com | 0 | pending | disabled | ApellidoPadre2 | ApellidoMadre2 | 30 | 1993-05-10 00:00:00 | avatar2.jpg |
| 3 | Usuario3 | usuario3@example.com | 1 | verified | enabled | 8-07-15 'avatar3 | ApellidoPadre3 | ApellidoMadre3 | 35 | 1988-07-15 00:00:00 | avatar3.jpg |
| 4 | Usuario4 | usuario4@example.com | 1 | verified | disabled | ApellidoPadre4 | ApellidoMadre4 | 40 | 1983-09-20 00:00:00 | avatar4.jpg |
| 5 | Usuario5 | usuario5@example.com | 0 | pending | disabled | Usuario4 | ApellidoPadre5 | ApellidoMadre5 | 45 | 1978-11-25 00:00:00 | avatar5.jpg |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> UPDATE Usuarios SET age = 26 WHERE id = 1;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE Usuarios SET emailVerified = 'verified', multiFactorAuthentication = 'enabled' WHERE id = 3;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1 Changed: 0 Warnings: 0

mysql> SELECT * FROM Usuarios;

+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| id | name | email | confirmed | emailVerified | multiFactorAuthentication | fatherLastName | motherLastName | age | dateBirth | avatar |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Alejandro | alejandro@gmail.com | 1 | verified | enabled | Tadeo | Martinez | 26 | 2000-08-03 00:00:00 | avatar1.jpg |
| 2 | Usuario2 | usuario2@example.com | 0 | pending | disabled | ApellidoPadre2 | ApellidoMadre2 | 30 | 1993-05-10 00:00:00 | avatar2.jpg |
| 3 | Usuario3 | usuario3@example.com | 1 | verified | enabled | ApellidoPadre3 | ApellidoMadre3 | 35 | 1988-07-15 00:00:00 | avatar3.jpg |
| 4 | Usuario4 | usuario4@example.com | 1 | verified | disabled | ApellidoPadre4 | ApellidoMadre4 | 40 | 1983-09-20 00:00:00 | avatar4.jpg |
| 5 | Usuario5 | usuario5@example.com | 0 | pending | disabled | ApellidoPadre5 | ApellidoMadre5 | 45 | 1978-11-25 00:00:00 | avatar5.jpg |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> UPDATE Usuarios SET emailVerified = 'verified', multiFactorAuthentication = 'enabled' WHERE id = 4;
Query OK, 1 row affected (0.02 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> SELECT * FROM Usuarios;

+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| id | name | email | confirmed | emailVerified | multiFactorAuthentication | fatherLastName | motherLastName | age | dateBirth | avatar |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Alejandro | alejandro@gmail.com | 1 | verified | enabled | Tadeo | Martinez | 26 | 2000-08-03 00:00:00 | avatar1.jpg |
| 2 | Usuario2 | usuario2@example.com | 0 | pending | disabled | ApellidoPadre2 | ApellidoMadre2 | 30 | 1993-05-10 00:00:00 | avatar2.jpg |
| 3 | Usuario3 | usuario3@example.com | 1 | verified | enabled | ApellidoPadre3 | ApellidoMadre3 | 35 | 1988-07-15 00:00:00 | avatar3.jpg |
| 4 | Usuario4 | usuario4@example.com | 1 | verified | enabled | ApellidoPadre4 | ApellidoMadre4 | 40 | 1983-09-20 00:00:00 | avatar4.jpg |
| 5 | Usuario5 | usuario5@example.com | 0 | pending | disabled | ApellidoPadre5 | ApellidoMadre5 | 45 | 1978-11-25 00:00:00 | avatar5.jpg |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
mysql>

```

```
lab1-03@lab1-03: ~  
Archivo Editor Ver Buscar Terminal Ayuda  
Query OK, 5 rows affected (0.04 sec)  
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM usuarios;  
ERROR 1146 (42S02): Table 'practica04.usuarios' doesn't exist  
mysql> SELECT * FROM Usuarios;
```

id	name	email	confirmed	emailVerified	multiFactorAuthentication	fatherLastName	motherLastName	age	dateBirth	avatar
6	Alejandro	alejandrog@gmail.com	1	verified	enabled	Tadeo	Martinez	23	2000-08-03 00:00:00	avata1.jpg
7	Usuario2	usuario2@example.com	0	pending	disabled	ApellidoPadre2	ApellidoMadre2	30	1993-05-10 00:00:00	avata2.jpg
8	Usuario3	usuario3@example.com	1	verified	enabled	ApellidoPadre3	ApellidoMadre3	35	1988-07-15 00:00:00	avata3.jpg
9	Usuario4	usuario4@example.com	1	verified	disabled	ApellidoPadre4	ApellidoMadre4	40	1983-09-20 00:00:00	avata4.jpg
10	Usuario5	usuario5@example.com	0	pending	disabled	ApellidoPadre5	ApellidoMadre5	45	1978-11-25 00:00:00	avata5.jpg

```
5 rows in set (0.00 sec)
```

Eliminar el ultimo registro insertado en la tabla:

```
mysql> UPDATE Usuarios SET age = 26 WHERE id = 1;  
Query OK, 0 rows affected (0.00 sec)  
Rows matched: 0 Changed: 0 Warnings: 0
```

Copy code

```
mysql> UPDATE Usuarios SET emailVerified = 'verified', multiFactorAuthentication = 'enabled' WHERE id = 3;  
Query OK, 0 rows affected (0.00 sec)  
Rows matched: 0 Changed: 0 Warnings: 0
```

DELETE FROM Usuarios WHERE id =(SELECT MAX(id) FROM usuarios);

```
mysql> DELETE FROM Usuarios WHERE id = 5;  
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> SELECT * FROM usuarios;  
ERROR 1146 (42S02): Table 'practica04.usuarios' doesn't exist  
mysql> SELECT * FROM Usuarios;
```

id	name	email	confirmed	emailVerified	multiFactorAuthentication	fatherLastName	motherLastName	age	dateBirth	avatar
6	Alejandro	alejandrog@gmail.com	1	verified	enabled	Tadeo	Martinez	23	2000-08-03 00:00:00	avata1.jpg
7	Usuario2	usuario2@example.com	0	pending	disabled	ApellidoPadre2	ApellidoMadre2	30	1993-05-10 00:00:00	avata2.jpg
8	Usuario3	usuario3@example.com	1	verified	enabled	ApellidoPadre3	ApellidoMadre3	35	1988-07-15 00:00:00	avata3.jpg
9	Usuario4	usuario4@example.com	1	verified	disabled	ApellidoPadre4	ApellidoMadre4	40	1983-09-20 00:00:00	avata4.jpg
10	Usuario5	usuario5@example.com	0	pending	disabled	ApellidoPadre5	ApellidoMadre5	45	1978-11-25 00:00:00	avata5.jpg

```
5 rows in set (0.00 sec)
```

```
mysql> DELETE FROM Usuarios WHERE id = 10;  
Query OK, 1 row affected (0.04 sec)
```

```
mysql> SELECT * FROM Usuarios;
```

id	name	email	confirmed	emailVerified	multiFactorAuthentication	fatherLastName	motherLastName	age	dateBirth	avatar
6	Alejandro	alejandrog@gmail.com	1	verified	enabled	Tadeo	Martinez	23	2000-08-03 00:00:00	avata1.jpg
7	Usuario2	usuario2@example.com	0	pending	disabled	ApellidoPadre2	ApellidoMadre2	30	1993-05-10 00:00:00	avata2.jpg
8	Usuario3	usuario3@example.com	1	verified	enabled	ApellidoPadre3	ApellidoMadre3	35	1988-07-15 00:00:00	avata3.jpg
9	Usuario4	usuario4@example.com	1	verified	disabled	ApellidoPadre4	ApellidoMadre4	40	1983-09-20 00:00:00	avata4.jpg

```
4 rows in set (0.00 sec)
```

```
mysql>
```

```
Archivo Editar Ver Buscar Terminal Ayuda
lab1-03@lab1-03: ~
Query OK, 5 rows affected (0.02 sec)

mysql> SELECT * FROM Usuarios;
Empty set (0.00 sec)

mysql> INSERT INTO Usuarios (name, email, confirmed, emailVerified, multiFactorAuthentication, fatherLastName, motherLastName, age, dateBirth, avatar)
-> VALUES
-> ('Alejandro', 'alejandrogmail.com', 1, 'verified', 'enabled', 'Tadeo', 'Martinez', 23, '2000-08-03', 'avatar1.jpg'),
-> ('Usuario2', 'usuario2@example.com', 0, 'pending', 'disabled', 'ApellidoPadre2', 'ApellidoMadre2', 30, '1993-05-10', 'avatar2.jpg'),
-> ('Usuario3', 'usuario3@example.com', 1, 'verified', 'enabled', 'ApellidoPadre3', 'ApellidoMadre3', 35, '1988-07-15', 'avatar3.jpg'),
-> ('Usuario4', 'usuario4@example.com', 1, 'verified', 'disabled', 'ApellidoPadre4', 'ApellidoMadre4', 40, '1983-09-20', 'avatar4.jpg'),
-> ('Usuario5', 'usuario5@example.com', 0, 'pending', 'disabled', 'ApellidoPadre5', 'ApellidoMadre5', 45, '1978-11-25', 'avatar5.jpg');
Query OK, 5 rows affected (0.04 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM usuarios;
ERROR 1146 (42S02): Table 'practica04.usuarios' doesn't exist
mysql> SELECT * FROM Usuarios;
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| id | name | email | confirmed | emailVerified | multiFactorAuthentication | fatherLastName | motherLastName | age | dateBirth | avatar |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 6 | Alejandro | alejandrogmail.com | 1 | verified | enabled | Tadeo | Martinez | 23 | 2000-08-03 00:00:00 | avatar1.jpg |
| 7 | Usuario2 | usuario2@example.com | 0 | pending | disabled | ApellidoPadre2 | ApellidoMadre2 | 30 | 1993-05-10 00:00:00 | avatar2.jpg |
| 8 | Usuario3 | usuario3@example.com | 1 | verified | enabled | ApellidoPadre3 | ApellidoMadre3 | 35 | 1988-07-15 00:00:00 | avatar3.jpg |
| 9 | Usuario4 | usuario4@example.com | 1 | verified | disabled | ApellidoPadre4 | ApellidoMadre4 | 40 | 1983-09-20 00:00:00 | avatar4.jpg |
| 10 | Usuario5 | usuario5@example.com | 0 | pending | disabled | ApellidoPadre5 | ApellidoMadre5 | 45 | 1978-11-25 00:00:00 | avatar5.jpg |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> UPDATE Usuarios SET age = 20 WHERE id = 1;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0

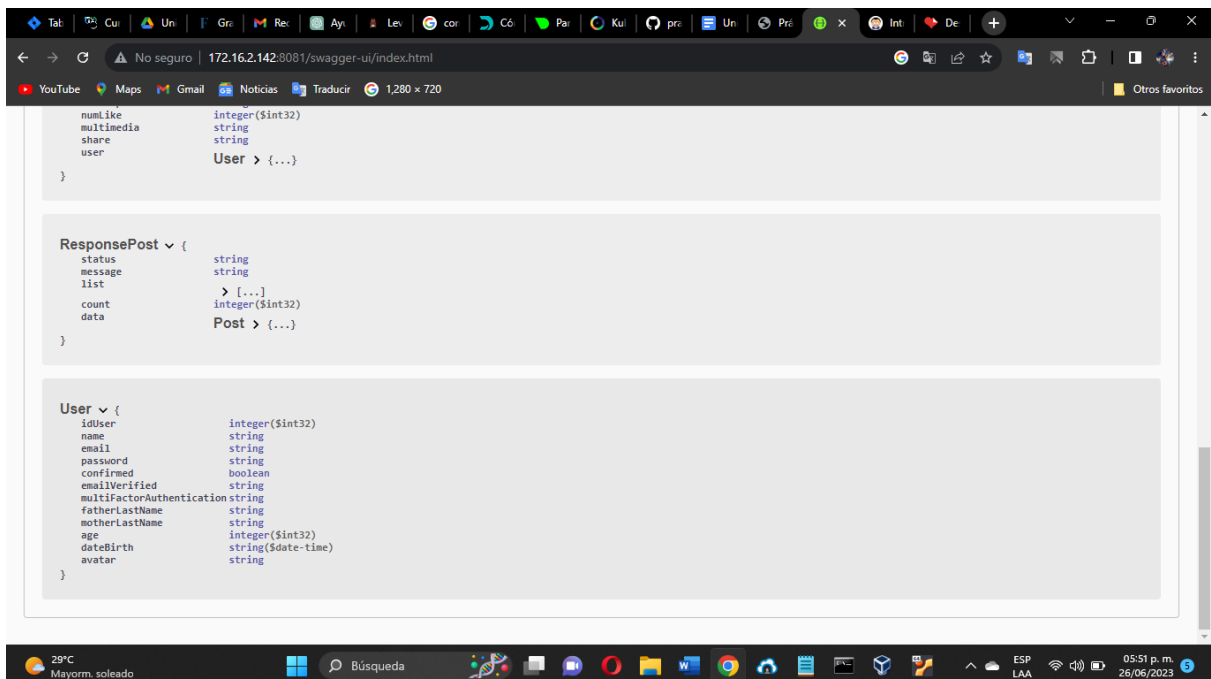
mysql> UPDATE Usuarios SET emailVerified = 'verified', multiFactorAuthentication = 'enabled' WHERE id = 3;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0

mysql> DELETE FROM Usuarios WHERE id = 5;
Query OK, 0 rows affected (0.00 sec)

mysql> SELECT * FROM usuarios;
ERROR 1146 (42S02): Table 'practica04.usuarios' doesn't exist
mysql> SELECT * FROM Usuarios;
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| id | name | email | confirmed | emailVerified | multiFactorAuthentication | fatherLastName | motherLastName | age | dateBirth | avatar |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 6 | Alejandro | alejandrogmail.com | 1 | verified | enabled | Tadeo | Martinez | 23 | 2000-08-03 00:00:00 | avatar1.jpg |
| 7 | Usuario2 | usuario2@example.com | 0 | pending | disabled | ApellidoPadre2 | ApellidoMadre2 | 30 | 1993-05-10 00:00:00 | avatar2.jpg |
| 8 | Usuario3 | usuario3@example.com | 1 | verified | enabled | ApellidoPadre3 | ApellidoMadre3 | 35 | 1988-07-15 00:00:00 | avatar3.jpg |
| 9 | Usuario4 | usuario4@example.com | 1 | verified | disabled | ApellidoPadre4 | ApellidoMadre4 | 40 | 1983-09-20 00:00:00 | avatar4.jpg |
| 10 | Usuario5 | usuario5@example.com | 0 | pending | disabled | ApellidoPadre5 | ApellidoMadre5 | 45 | 1978-11-25 00:00:00 | avatar5.jpg |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> DELETE FROM Usuarios WHERE id = 10;
Query OK, 1 row affected (0.04 sec)

mysql> SELECT * FROM Usuarios;
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| id | name | email | confirmed | emailVerified | multiFactorAuthentication | fatherLastName | motherLastName | age | dateBirth | avatar |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 6 | Alejandro | alejandrogmail.com | 1 | verified | enabled | Tadeo | Martinez | 23 | 2000-08-03 00:00:00 | avatar1.jpg |
| 7 | Usuario2 | usuario2@example.com | 0 | pending | disabled | ApellidoPadre2 | ApellidoMadre2 | 30 | 1993-05-10 00:00:00 | avatar2.jpg |
| 8 | Usuario3 | usuario3@example.com | 1 | verified | enabled | ApellidoPadre3 | ApellidoMadre3 | 35 | 1988-07-15 00:00:00 | avatar3.jpg |
| 9 | Usuario4 | usuario4@example.com | 1 | verified | disabled | ApellidoPadre4 | ApellidoMadre4 | 40 | 1983-09-20 00:00:00 | avatar4.jpg |
| 10 | Usuario5 | usuario5@example.com | 0 | pending | disabled | ApellidoPadre5 | ApellidoMadre5 | 45 | 1978-11-25 00:00:00 | avatar5.jpg |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```



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