## Práctica 5

En primer lugar accedemos a la interfaz de mysql con:

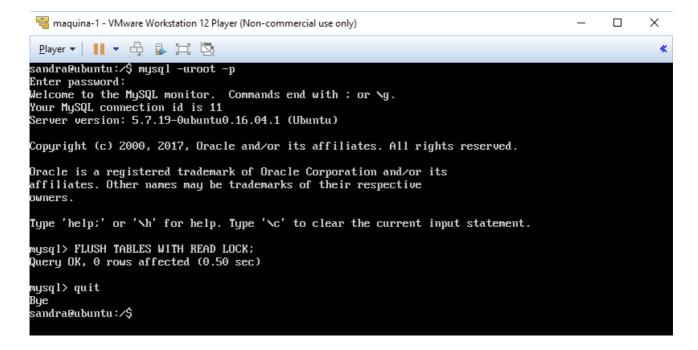
```
mysql -uroot -p
```

luego creamos una nueva base de datos, accedemos a ella y creamos una tabla en la que insertaremos algunos datos:

```
🧠 maquina-1 - VMware Workstation 12 Player (Non-commercial use only)
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sandra@ubuntu:/$ mysql -uroot -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or g.
Your MySQL connection id is 8
Server version: 5.7.19-Oubuntu0.16.04.1 (Ubuntu)
Copyright (c) 2000, 2017, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> create database contactos
Query OK, 1 row affected (0.12 sec)
mysql> use contactos;
Database changed
mysql> show tables:
Empty set (0.00 sec)
mysql> create table datos(nombre varchar(100), tlf int);
Query OK, O rows affected (0.76 sec)
mysql> show tables;
 Tables_in_contactos |
 datos
 row in set (0.00 sec)
mysql>
```

```
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sandra@ubuntu:/$ mysql -uroot -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 5.7.19-Oubuntu0.16.04.1 (Ubuntu)
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owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> select * from datos;
ERROR 1046 (3D000): No database selected
mysql> use contactos
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 ''' at line 1
mysql> use contactos;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
mysql> select * from datos;
  nombre | tlf
                        I
           1 95834987
  pepe
           I 95834987
  pepe
2 rows in set (0.00 sec)
mysql> clear
nysql> clear:
mysql>
```

Para evitar que la BD se esté actualizand al realizar la copia hacemos lo siguiente:



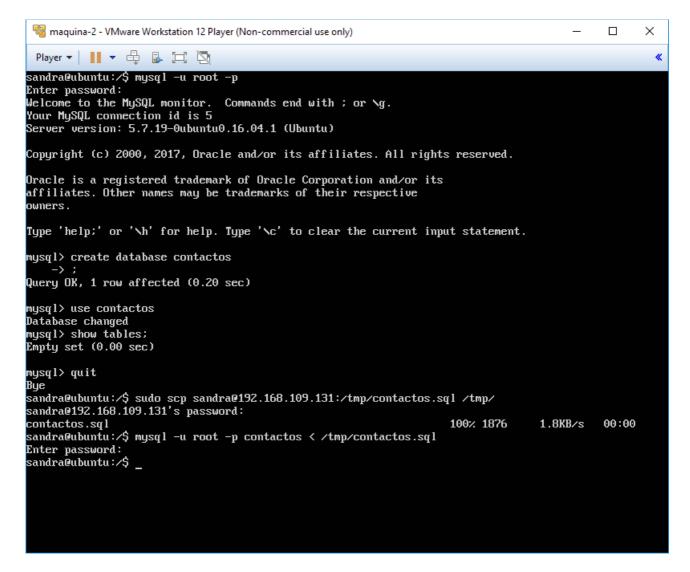
Y ahora con mysqldump guardamos los datos en la máquina principal y luego desbloqueamos las tablas:

```
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 <u>P</u>layer ▼ | | | ▼ 🖶 🖟 💢
sandra@ubuntu:/$ mysqldump contactos -u root -p > /tmp/contactos.sql
Enter password:
sandra@ubuntu:/$ mysql -uroot -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \Sg.
Your MySQL connection id is 13
Server version: 5.7.19-Oubuntu0.16.04.1 (Ubuntu)
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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> UNLOCK TABLES;
Query OK, 0 rows affected (0.00 sec)
mysql> quit
Bye
sandra@ubuntu:/$_
```

Ahora vamos a la máquina 2 (esclavo) y copiamos el archivo sql con:

```
scp 192.168.109.131:/tmp/contactos.sql /tmp/
```

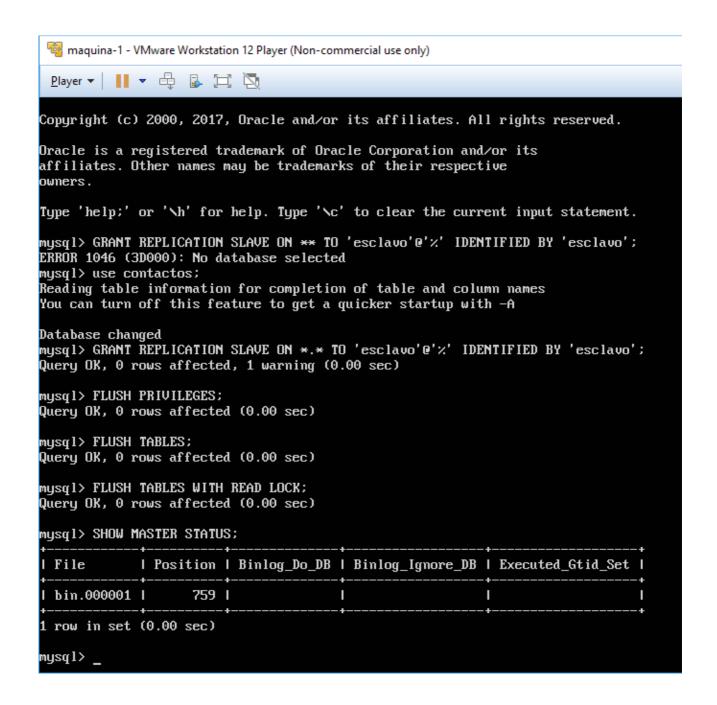
y para importar la base de datos, primero creamos la base de taos y luego restauramos los datos:



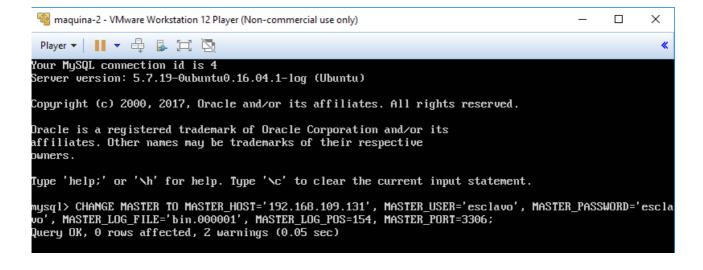
Configuramos mysql del maestro (máquina 1) tal y como se nos indica en el guión y reiniciamos el servicio.

Luego configuramos de manera similar mysql en el esclavo (máquina 2) y reiniciamos el servicio.

Una vez hecho esto volvemos al maestro y ejecutamos las siguientes sentencias en mysql:



## Ahora vamos al esclavo y hacemos lo siguiente:



Después de esto iniciamos el esclavo con:

```
MYSQL> START SLAVE;
```

y volvemos al maestro para desbloquear las tablas con:

```
MYSQL> UNLOCK TABLES;
```

Ahora, para comprobar que todo funciona perfectamente vamos al esclavo y ejecutamos la siguiente sentencia:

MYSQL> SHOW SLAVE STATUS\G;

```
 maquina-2 - VMware Workstation 12 Player (Non-commercial use only)
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              Master_SSL_Allowed: No
              Master_SSL_CA_File:
Master_SSL_CA_Path:
Master_SSL_Cert:
               Master_SSL_Cipher:
          Master_SSL_Key:
Seconds_Behind_Master: 0
Master_SSL_Verify_Server_Cert: No
                   Last_IO_Errno: 0
Last_IO_Error:
Last_SQL_Errno: 0
                    Last_SQL_Error:
  Replicate_Ignore_Server_Ids:
                 Master_Server_Id: 1
                        Master_UUID: f4f0df03-80c6-11e7-b851-000c2945c5f0
            Master_Info_File: /var/lib/mysql/master.info
SQL_Delay: 0
SQL_Remaining_Delay: NULL
       Slave_SQL_Running_State: Slave has read all relay log; waiting for more updates
              Master_Retry_Count: 86400
                        Master_Bind:
       Last_IO_Error_Timestamp:
      Last_TO_ETTOT_TIMEStamp:
Last_SQL_Error_Timestamp:
Master_SSL_Crl;
Master_SSL_Crlpath:
              Retrieved_Gtid_Set:
Executed_Gtid_Set:
Auto_Position: 0
           Replicate_Rewrite_DB:
                      Channel_Name:
 Master_TLS_Version:
row in set (0.00 sec)
No query specified
mysql> _
```

Todo está funcionando correctamente ya que el valos de "Seconds\_Behind\_Master" no es null.

Ahora introducimos nuevos datos en la tabla desde el maestro y vamos al esclavo para comprobar que aparecen:

```
🖥 maquina-2 - VMware Workstation 12 Player (Non-commercial use only)
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     Last_SQL_Error_Timestamp:
            Master_SSL_Crl;
Master_SSL_Crlpath;
Retrieved_Gtid_Set;
Executed_Gtid_Set;
                   Auto_Position: 0
          Replicate_Rewrite_DB:
                    Channel_Name:
             Master_TLS_Version:
  row in set (0.00 sec)
ERROR:
No query specified
mysql> SELECT * FROM DATOS;
ERROR 1146 (42S02): Table 'contactos.DATOS' doesn't exist
mysql> SELECT * FROM datos;
 nombre | tlf
           1 95834987
  pepe
           1 95834987
  pepe
  rows in set (0.00 sec)
mysq1> SELECT * FROM datos;
  nombre | tlf
  pepe
              95834987 I
          I 95834987
I 958123456
  pepe
  maria
  sandra | 958789456
  rows in set (0.00 sec)
mysql> _
```