```
andre@virt:~$ pwd

/home/andre

andre@virt:~$ mysql -uroot -p

andre@virt:~$

andre@virt:~$ system status mysql

Command 'system' not found, did you mean:

  command 'system3' from deb simh (3.8.1-6.1)

  command 'systemd' from deb systemd (249.11-0ubuntu3.11)

Try: sudo apt install <deb name>

andre@virt:~$ systemctl status mysql

● mysql.service - MySQL Community Server

   Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset:>

   Active: active (running) since Tue 2023-12-05 21:55:04 +05; 8min ago

  Process: 712 ExecStartPre=/usr/share/mysql/mysql-systemd-start pre (code=ex>

 Main PID: 791 (mysqld)

   Status: "Server is operational"

    Tasks: 38 (limit: 5440)

   Memory: 424.3M

      CPU: 4.265s

   CGroup: /system.slice/mysql.service

           └─791 /usr/sbin/mysqld


дек 05 21:54:54 virt systemd[1]: Starting MySQL Community Server...

дек 05 21:55:04 virt systemd[1]: Started MySQL Community Server.

andre@virt:~$

andre@virt:~$ mysql -uroot -p

andre@virt:~$ sudo mysql_installation

sudo: mysql_installation: command not found

andre@virt:~$ sudo mysql

Welcome to the MySQL monitor.  Commands end with ; or \g.

Your MySQL connection id is 11

Server version: 8.0.35-0ubuntu0.22.04.1 (Ubuntu)

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Owners.
```

```
mysql> show databases;

+----------------------------+
| Database                   |
+----------------------------+
| information_schema   |
| mysql                      |
| performance_schema |
| sys                        |
+----------------------------+
4 rows in set (0,01 sec)


mysql> create schema frends;
Query OK, 1 row affected (0,01 sec)


mysql> use frends;
Database changed
mysql> create table types(
    -> id int not null,
    -> name varchar(10) not null)
    -> engine = innodb;
Query OK, 0 rows affected (0,04 sec)


mysql> create table animal(
    -> id int primary key auto_increment,
    -> name varchar(10) not null,
    -> birthday date not null,
    -> type int not null,
    -> commands varchar(100) not null)
    -> engine = innodb;
Query OK, 0 rows affected (0,04 sec)


mysql> insert into types(id, name) value (1, 'dog');
Query OK, 1 row affected (0,01 sec)


mysql> insert into types(id, name) value (2, 'cat');
Query OK, 1 row affected (0,01 sec)
```

```
mysql> insert into types(id, name) value (3, 'hamster');
Query OK, 1 row affected (0,01 sec)

mysql> insert into types(id, name) value (4, 'horse');
Query OK, 1 row affected (0,01 sec)

mysql> insert into types(id, name) value (5, 'camel');
Query OK, 1 row affected (0,01 sec)

mysql> insert into types(id, name) value (6, 'donkey');
Query OK, 1 row affected (0,01 sec)

mysql>
mysql> insert into animal(name, birthday, type, commands) value('Sharik', '2020-02-15', 1, 'jamp, sleep');
Query OK, 1 row affected (0,01 sec)

mysql> insert into animal(name, birthday, type, commands) value('Gaf', '2016-08-23', 2, 'sleep, run, lei');
Query OK, 1 row affected (0,01 sec)

mysql> insert into animal(name, birthday, type, commands) value('Nayda', '2012-10-01', 1, 'sit, sleep');
Query OK, 1 row affected (0,00 sec)

mysql> insert into animal(name, birthday, type, commands) value('Showflake', '2021-06-01', 3, 'poll, there');
Query OK, 1 row affected (0,00 sec)

mysql> insert into animal(name, birthday, type, commands) value('Shadow', '2023-06-16', 2, 'jamp, run');
Query OK, 1 row affected (0,01 sec)

mysql> insert into animal(name, birthday, type, commands) value('Butch', '2019-01-10', 3, 'polli, there');
Query OK, 1 row affected (0,01 sec)

mysql> insert into animal(name, birthday, type, commands) value('Jilius', '2022-05-13', 4, 'ride, stand, there');
Query OK, 1 row affected (0,00 sec)

mysql> insert into animal(name, birthday, type, commands) value('Moses', '2022-01-19', 6, 'stand, sleep');
```

Query OK, 1 row affected (0,01 sec)

mysql> insert into animal(name, birthday, type, commands) value('Vasia', '2020-08-10', 5, 'stand, sleep');

Query OK, 1 row affected (0,01 sec)

mysql> insert into animal(name, birthday, type, commands) value('Gambit', '2020-09-12', 4, 'sleep, ride');

Query OK, 1 row affected (0,01 sec)

mysql> insert into animal(name, birthday, type, commands) value('Tailak', '2016-03-05', 5, 'sleep, run');

Query OK, 1 row affected (0,02 sec)

mysql> insert into animal(name, birthday, type, commands) value('Sekret', '2021-11-29', 6, 'polli');

Query OK, 1 row affected (0,00 sec)

mysql> select * from types;

```
+----+------------+
| id | name       |
+----+------------+
|  1 | dog        |
|  2 | cat        |
|  3 | hamster    |
|  4 | horse      |
|  5 | camel      |
|  6 | donkey     |
+----+------------+
6 rows in set (0,00 sec)
```


mysql> select * from animal;

```
+----+--------------+-----------------+------+--------------------+
| id | name       --| birthday - ----| type | commands         |
+----+--------------+-----------+------+-------------------------+
|  1 | Sharik       | 2020-02-15 |   1 | jamp, sleep       |
|  2 | Gaf          | 2016-08-23 |   2 | sleep, run, lei   |
|  3 | Nayda        | 2012-10-01 |   1 | sit, sleep        |
```

```
|  4 | Showflake | 2021-06-01 |    3 | poll, there        |
|  5 | Shadow    | 2023-06-16 |    2 | jamp, run          |
|  6 | Butch     | 2019-01-10 |    3 | polli, there       |
|  7 | Jilius    | 2022-05-13 |    4 | ride, stand, there |
|  8 | Moses     | 2022-01-19 |    6 | stand, sleep       |
|  9 | Vasia     | 2020-08-10 |    5 | stand, sleep       |
| 10 | Gambit    | 2020-09-12 |    4 | sleep, ride        |
| 11 | Tailak    | 2016-03-05 |    5 | sleep, run         |
| 12 | Sekret    | 2021-11-29 |    6 | polli              |
+----+-----------+------------+------+--------------------+
```
12 rows in set (0,01 sec)

mysql> create or replace view Pets as

    -> select types.name as type, animal.name as name, animal.birthday, animal.commands

    -> from

    -> animal

    -> join types o mysql>

n (animal.type = types.id)

    -> where

    -> types.id=1 or types.id=2 or types.id=3;

Query OK, 0 rows affected (0,02 sec)

mysql> select * from Pets;
```
+---------+-----------+------------+-----------------+
| type    | name      | birthday   | commands        |
+---------+-----------+------------+-----------------+
| dog     | Sharik    | 2020-02-15 | jamp, sleep     |
| cat     | Gaf       | 2016-08-23 | sleep, run, lei |
| dog     | Nayda     | 2012-10-01 | sit, sleep      |
| hamster | Showflake | 2021-06-01 | poll, there     |
| cat     | Shadow    | 2023-06-16 | jamp, run       |
| hamster | Butch     | 2019-01-10 | polli, there    |
+---------+-----------+------------+-----------------+
```

6 rows in set (0,00 sec)

mysql> create or replace view Pack_animal as

    -> select types.name as type, animal.name as name, animal.birthday, animal.commands

    -> from

    -> animal

    -> join types on (animal.type = types.id)

    -> where

    -> types.id=4 or types.id=5 or types.id=6;

Query OK, 0 rows affected (0,01 sec)

mysql> select * from Pack_animal;

```
+--------+--------+------------+-------------------+
| type   | name   | birthday   | commands          |
+--------+--------+------------+-------------------+
| horse  | Jilius | 2022-05-13 | ride, stand, there |
| donkey | Moses  | 2022-01-19 | stand, sleep      |
| camel  | Vasia  | 2020-08-10 | stand, sleep      |
| horse  | Gambit | 2020-09-12 | sleep, ride       |
| camel  | Tailak | 2016-03-05 | sleep, run        |
| donkey | Sekret | 2021-11-29 | polli             |
+--------+--------+------------+-------------------+
```

6 rows in set (0,00 sec)

mysql> delete from animal

    -> where animal.type=5;

Query OK, 2 rows affected (0,00 sec)

mysql>

mysql> create or replace view Pack_animal as

    -> select types.name as type, animal.name as name, animal.birthday, animal.commands

    -> from

    -> animal

    -> join types on (animal.type = types.id)

```
    -> where
    -> types.id=4 or types.id=6;
Query OK, 0 rows affected (0,01 sec)


mysql> select * from Pack_animal;
+----------+-----------+---------------+-----------------------+
| type     | name      | birthday      | commands              |
+----------+-----------+---------------+-----------------------+
| horse    | Jilius    | 2022-05-13    | ride, stand, there    |
| donkey   | Moses     | 2022-01-19    | stand, sleep          |
| horse    | Gambit    | 2020-09-12    | sleep, ride           |
| donkey   | Sekret    | 2021-11-29    | polli                 |
+----------+-----------+---------------+-----------------------+
4 rows in set (0,00 sec)


mysql>
mysql> create or replace view age as
    -> select animal.name as name, types.name as type, animal.birthday,
    -> TIMESTAMPDIFF(YEAR, animal.birthday, curdate()) as Year,
    -> (TIMESTAMPDIFF(month, animal.birthday, curdate()) %12) as Month
    -> from
    -> (animal join types on ((animal.type = types.id)));
Query OK, 0 rows affected (0,01 sec)


mysql>
mysql> create or replace view young_animal as
    -> select age.name as name, age.type as type, age.birthday as birthday, age.Year as age, age.Month as month
    -> from
    -> age
    -> where
    -> ((age.Year >=1) and (age.Year <=3));
Query OK, 0 rows affected (0,00 sec)


mysql> select * from young_animal;
```

```
+--------------+------------+--------------+------+-----------+
| name         | type       | birthday     | age  | month     |
+--------------+------------+--------------+------+-----------+
| Sharik       | dog        | 2020-02-15 |  3   |   9       |
| Showflake    | hamster    | 2021-06-01 |  2   |   6       |
| Jilius       | horse      | 2022-05-13 |  1   |   6       |
| Moses        | donkey     | 2022-01-19 |  1   |   10      |
| Gambit       | horse      | 2020-09-12 |  3   |   2       |
| Sekret       | donkey     | 2021-11-29 |  2   |   0       |
+--------------+------------+----------------+-------+-------+
6 rows in set (0,00 sec)

mysql>

mysql> create or replace view all_animal as
    -> select
    -> types.name as type, animal.name as name, animal.birthday as birthday,animal. commands as commands
    -> from
    -> (animal join types on ((animal.type = types.id)));
Query OK, 0 rows affected (0,01 sec)


mysql> select * from all_animal;
+------------+---------------+---------------+----------------------+
| type       | name          | birthday      | commands             |
+------------+---------------+---------------+----------------------+
| dog        | Sharik        | 2020-02-15 | jamp, sleep           |
| cat        | Gaf           | 2016-08-23 | sleep, run, lei       |
| dog        | Nayda         | 2012-10-01 | sit, sleep            |
| hamster    | Showflake     | 2021-06-01 | poll, there           |
| cat        | Shadow        | 2023-06-16 | jamp, run             |
| hamster    | Butch         | 2019-01-10 | polli, there          |
| horse      | Jilius        | 2022-05-13 | ride, stand, there    |
| donkey     | Moses         | 2022-01-19 | stand, sleep          |
| horse      | Gambit        | 2020-09-12 | sleep, ride           |
| donkey     | Sekret        | 2021-11-29 | polli                 |
+-------------+---------------+------------+--------------------------+
```

10 rows in set (0,00 sec)