Создадим базу данных:

Далее в созданной БД создадим соответствующие таблицы:

mysql> CREATE TABLE animal_type (

    -> id_type INT NOT NULL AUTO_INCREMENT,

    -> name_type VARCHAR(25) NOT NULL,

    -> PRIMARY KEY(id_type));

```
mysql> CREATE TABLE dogs (
    -> id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    -> name VARCHAR(45) NOT NULL,
    -> birth_date DATE NOT NULL,
    -> animal_type_id INT NOT NULL,
    -> commands VARCHAR(100),
    -> FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
```



```
mysql> CREATE TABLE cats (
    -> id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    -> name VARCHAR(45) NOT NULL,
    -> birth_date DATE NOT NULL,
    -> animal_type_id INT NOT NULL,
    -> commands VARCHAR(100),
    -> FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);


mysql> CREATE TABLE hamsters (
    -> id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    -> name VARCHAR(45) NOT NULL,
    -> birth_date DATE NOT NULL,
    -> animal_type_id INT NOT NULL,
    -> commands VARCHAR(100),
    -> FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
```

```
mysql> CREATE TABLE horses (
    -> id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    -> name VARCHAR(45) NOT NULL,
    -> birth_date DATE NOT NULL,
    -> animal_type_id INT NOT NULL,
    -> commands VARCHAR(100),
    -> FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);


mysql> CREATE TABLE camels (
    -> id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    -> name VARCHAR(45) NOT NULL,
    -> birth_date DATE NOT NULL,
    -> animal_type_id INT NOT NULL,
    -> commands VARCHAR(100),
    -> FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);


mysql> CREATE TABLE donkeys (
    -> id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    -> name VARCHAR(45) NOT NULL,
    -> birth_date DATE NOT NULL,
    -> animal_type_id INT NOT NULL,
    -> commands VARCHAR(100),
    -> FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
```
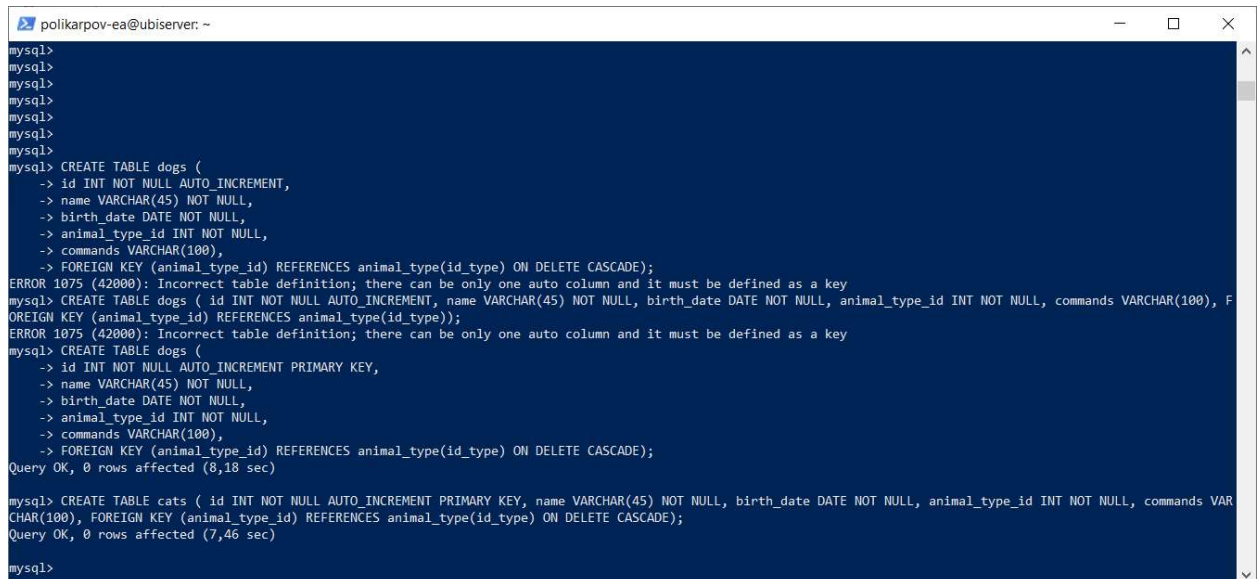


```
polikarpov-ea@ubiserver: ~                                                                              —    □    ✕
mysql> CREATE TABLE dogs ( id INT NOT NULL AUTO_INCREMENT, name VARCHAR(45) NOT NULL, birth_date DATE NOT NULL, animal_type_id INT NOT NULL, commands VARCHAR(100), F
OREIGN KEY (animal_type_id) REFERENCES animal_type(id_type));
ERROR 1075 (42000): Incorrect table definition; there can be only one auto column and it must be defined as a key
mysql> CREATE TABLE dogs (
    -> id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    -> name VARCHAR(45) NOT NULL,
    -> birth_date DATE NOT NULL,
    -> animal_type_id INT NOT NULL,
    -> commands VARCHAR(100),
    -> FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
Query OK, 0 rows affected (8,18 sec)

mysql> CREATE TABLE cats ( id INT NOT NULL AUTO_INCREMENT PRIMARY KEY, name VARCHAR(45) NOT NULL, birth_date DATE NOT NULL, animal_type_id INT NOT NULL, commands VAR
CHAR(100), FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
Query OK, 0 rows affected (7,46 sec)

mysql> CREATE TABLE hamsters ( id INT NOT NULL AUTO_INCREMENT PRIMARY KEY, name VARCHAR(45) NOT NULL, birth_date DATE NOT NULL, animal_type_id INT NOT NULL, commands
 VARCHAR(100), FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
Query OK, 0 rows affected (11,21 sec)

mysql> CREATE TABLE horses ( id INT NOT NULL AUTO_INCREMENT PRIMARY KEY, name VARCHAR(45) NOT NULL, birth_date DATE NOT NULL, animal_type_id INT NOT NULL, commands V
ARCHAR(100), FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
Query OK, 0 rows affected (7,51 sec)

mysql> CREATE TABLE camels ( id INT NOT NULL AUTO_INCREMENT PRIMARY KEY, name VARCHAR(45) NOT NULL, birth_date DATE NOT NULL, animal_type_id INT NOT NULL, commands V
ARCHAR(100), FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
Query O^C
mysql> CREATE TABLE donkeys ( id INT NOT NULL AUTO_INCREMENT PRIMARY KEY, name VARCHAR(45) NOT NULL, birth_date DATE NOT NULL, animal_type_id INT NOT NULL, commands
VARCHAR(100), FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
Query OK, 0 rows affected (23,03 sec)

mysql>
```

Заполним таблицы значениями:

mysql> INSERT INTO animal_type (id_type, name_type) VALUES

    -> (1, 'Pet'),

    -> (2, 'Pack animals');

```
polikarpov-ea@ubiserver: ~                                                    —    □    ✕

mysql> CREATE TABLE cats ( id INT NOT NULL AUTO_INCREMENT PRIMARY KEY, name VARCHAR(45) NOT NULL, birth_date DATE NOT NULL, animal_type_id INT NOT NULL, commands VAR
CHAR(100), FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
Query OK, 0 rows affected (7,46 sec)

mysql> CREATE TABLE hamsters ( id INT NOT NULL AUTO_INCREMENT PRIMARY KEY, name VARCHAR(45) NOT NULL, birth_date DATE NOT NULL, animal_type_id INT NOT NULL, commands
 VARCHAR(100), FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
Query OK, 0 rows affected (11,21 sec)

mysql> CREATE TABLE horses ( id INT NOT NULL AUTO_INCREMENT PRIMARY KEY, name VARCHAR(45) NOT NULL, birth_date DATE NOT NULL, animal_type_id INT NOT NULL, commands V
ARCHAR(100), FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
Query OK, 0 rows affected (7,51 sec)

mysql> CREATE TABLE camels ( id INT NOT NULL AUTO_INCREMENT PRIMARY KEY, name VARCHAR(45) NOT NULL, birth_date DATE NOT NULL, animal_type_id INT NOT NULL, commands V
ARCHAR(100), FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
Query O^C
mysql> CREATE TABLE donkeys ( id INT NOT NULL AUTO_INCREMENT PRIMARY KEY, name VARCHAR(45) NOT NULL, birth_date DATE NOT NULL, animal_type_id INT NOT NULL, commands
VARCHAR(100), FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
Query OK, 0 rows affected (23,03 sec)

mysql> INSERT INTO animal_type (id_type, name_type) VALUES
    -> (1, 'Pet'),
    -> (2, 'Pack animals'));
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
 3
mysql> INSERT INTO animal_type (id_type, name_type) VALUES
    -> (1, 'Pet'),
    -> (2, 'Pack animals');
Query OK, 2 rows affected (6,35 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql>
```

mysql> INSERT INTO dogs (name, birth_date, animal_type_id, commands) VALUES

    -> ('Sharik', '2020-01-02', 1, ''),

    -> ('Blober', '2021-02-01', 1, 'Fetch'),

    -> ('Karrat', '2019-03-22', 1, 'Sit, Stay');

```
polikarpov-ea@ubiserver: ~                                                    —    □    ✕

mysql> CREATE TABLE camels ( id INT NOT NULL AUTO_INCREMENT PRIMARY KEY, name VARCHAR(45) NOT NULL, birth_date DATE NOT NULL, animal_type_id INT NOT NULL, commands V
ARCHAR(100), FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
Query O^C
mysql> CREATE TABLE donkeys ( id INT NOT NULL AUTO_INCREMENT PRIMARY KEY, name VARCHAR(45) NOT NULL, birth_date DATE NOT NULL, animal_type_id INT NOT NULL, commands
VARCHAR(100), FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
Query OK, 0 rows affected (23,03 sec)

mysql> INSERT INTO animal_type (id_type, name_type) VALUES
    -> (1, 'Pet'),
    -> (2, 'Pack animals'));
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
 3
mysql> INSERT INTO animal_type (id_type, name_type) VALUES
    -> (1, 'Pet'),
    -> (2, 'Pack animals');
Query OK, 2 rows affected (6,35 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> INSERT INTO dogs (id, name, birth_date, animal_type, commands) VALUES
    -> (1, 'Sharik', '2020-01-02', 1, ''),
    -> (2, 'Blober', '2021-02-01', 1, ''),
    -> (3, 'Karrat', '2019-03-22', 1, 'Sit, Stay');
ERROR 1054 (42S22): Unknown column 'animal_type' in 'field list'
mysql> INSERT INTO dogs (name, birth_date, animal_type_id, commands) VALUES
    -> ('Sharik', '2020-01-02', 1, ''),
    -> ('Blober', '2021-02-01', 1, 'Fetch'),
    -> ('Karrat', '2019-03-22', 1, 'Sit, Stay');
Query OK, 3 rows affected (1,14 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql>
```

mysql> INSERT INTO cats (name, birth_date, animal_type_id, commands) VALUES

    -> ('Kitty', '2022-04-19', 1, 'Sit, Scratch'),

    -> ('Moony', '2021-11-04', 1, 'Sit'),

    -> ('Tooly', '2023-02-20', 1, '');

mysql> INSERT INTO hamsters (name, birth_date, animal_type_id, commands) VALUES

    -> ('Boby', '2021-10-11', 1, 'Roll'),

    -> ('Toby', '2022-11-11', 1, 'Spin, Roll'),

    -> ('Budy', '2023-05-15', 1, '');

mysql> INSERT INTO horses (name, birth_date, animal_type_id, commands) VALUES

    -> ('Rock', '2018-04-12', 2, 'Gallop'),

    -> ('Blackwood', '2017-03-11', 2, 'Gallop, Trot'),

    -> ('Boris', '2010-03-11', 2, 'Gallop, Trot, Canter');

mysql> INSERT INTO camels (name, birth_date, animal_type_id, commands) VALUES

    -> ('Sahed', '2016-02-20', 2, 'Walk, Stay'),

    -> ('Fate', '2020-06-18', 2, 'Load'),

    -> ('Tribune', '2021-07-01', 2, '');

mysql> INSERT INTO donkeys (name, birth_date, animal_type_id, commands) VALUES

    -> ('Barrone', '2019-08-18', 2, 'Load, Walk, Stay'),

    -> ('Graph', '2022-05-18', 2, 'Walk, Stay'),

    -> ('Gerda', '2020-10-30', 2, 'Walk, Stay, Load, Run');

Удалить все записи о верблюдах:

mysql> DELETE FROM camels;


```
polikarpov-ea@ubiserver: ~                                    —   □   ×

mysql> DELETE FROM camels;
Query OK, 3 rows affected (1,97 sec)

mysql>
```

Создадим таблицу лошади и ослы, затем заполним ее:

mysql> CREATE TABLE horses_and_donkeys (

   -> id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,

   -> name VARCHAR(45) NOT NULL,

   -> name_animals_type VARCHAR(15) NOT NULL,

   -> birth_date DATE NOT NULL,

   -> animal_type_id INT NOT NULL,

   -> commands VARCHAR(100),

   -> FOREIGN KEY (animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);

mysql> INSERT INTO horses_and_donkeys (name, name_animal_type, birth_date, animal_type_id, commands)
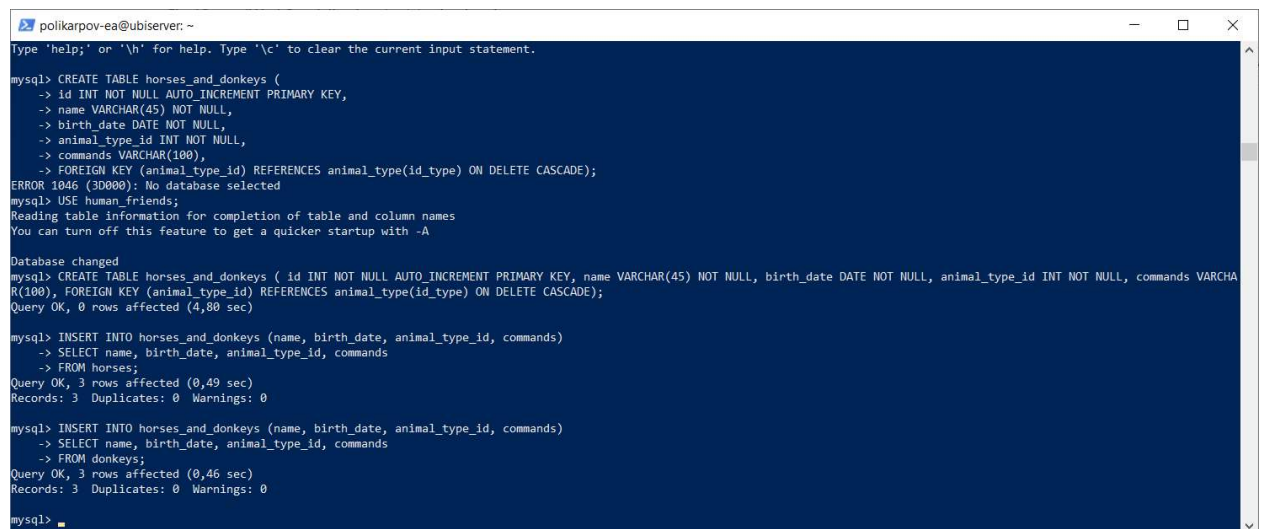
   -> SELECT name, 'horses' as nametype, birth_date, animal_type_id, commands

   -> FROM horses;

mysql> INSERT INTO horses_and_donkeys (name, name_animal_type, birth_date, animal_type_id, commands)

   -> SELECT name, 'donkeys' as nametype, birth_date, animal_type_id, commands

   -> FROM donkeys;

Проверим результат:

mysql> SELECT id, name, name_animals_type, birth_date, name_type, commands

FROM horses_and_donkeys

LEFT JOIN animal_type ON id_type = animal_type_id;

```
Query OK, 3 rows affected (0,42 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> DELETE FROM horses_and_donkeys;
Query OK, 3 rows affected (0,37 sec)

mysql> INSERT INTO horses_and_donkeys (name, name_animals_type, birth_date, animal_type_id, commands) SELECT name, 'horses' as name_type, birth_date, animal_type_id, commands FROM ho
rses;
Query OK, 3 rows affected (0,46 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> INSERT INTO horses_and_donkeys (name, name_animals_type, birth_date, animal_type_id, commands) SELECT name, 'donkeys' as name_type, birth_date, animal_type_id, commands FROM d
onkeys;
Query OK, 3 rows affected (0,42 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> SELECT id, name, name_animal_type, birth_date, name_type, commands  FROM horses_and_donkeys LEFT JOIN animal_type ON id_type = animal_type_id;
ERROR 1054 (42S22): Unknown column 'name_animal_type' in 'field list'
mysql> SELECT id, name, name_animals_type, birth_date, name_type, commands  FROM horses_and_donkeys LEFT JOIN animal_type ON id_type = animal_type_id;
+----+-----------+-------------------+------------+-------------+-----------------------+
| id | name      | name_animals_type | birth_date | name_type   | commands              |
+----+-----------+-------------------+------------+-------------+-----------------------+
|  4 | Rock      | horses            | 2018-04-12 | Pack animals| Gallop                |
|  5 | Blackwood | horses            | 2017-03-11 | Pack animals| Gallop, Trot          |
|  6 | Boris     | horses            | 2010-03-11 | Pack animals| Gallop, Trot, Canter  |
|  7 | Barrone   | donkeys           | 2019-08-18 | Pack animals| Load, Walk, Stay      |
|  8 | Graph     | donkeys           | 2022-05-18 | Pack animals| Walk, Stay            |
|  9 | Gerda     | donkeys           | 2020-10-30 | Pack animals| Walk, Stay, Load, Run |
+----+-----------+-------------------+------------+-------------+-----------------------+
6 rows in set (0,00 sec)

mysql>
```

Создадим таблицу животных от 1 до 3х лет:

mysql> CREATE TABLE young_animals (

-> id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,

-> name VARCHAR(45) NOT NULL,

-> name_animals_type VARCHAR(15) NOT NULL,

-> birth_date DATE NOT NULL,

-> animal_type_id INT NOT NULL,

-> commands VARCHAR(100),

-> FOREIGN KEY(animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);


```
    -> FOREIGN KEY(animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
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 'PRIMARY_KEY,
name VARCHAR(45) NOT NULL,
name_animals_type VARCHAR(15) NOT NULL,
' at line 2
mysql> CREATE TABLE young_animals (
    -> id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    -> name VARCHAR(45) NOT NULL,
    -> name_animals_type VARCHAR(15) NOT NULL,
    -> birth_date DATE NOT NULL,
    -> animal_type_id INT NOT NULL,
    -> commands VARCHAR(100),
    -> FOREIGN KEY(animal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
ERROR 1046 (3D000): No database selected
mysql> USE human_friends;
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> CREATE TABLE young_animals ( id INT NOT NULL AUTO_INCREMENT PRIMARY KEY, name VARCHAR(45) NOT NULL, name_animals_
type VARCHAR(15) NOT NULL, birth_date DATE NOT NULL, animal_type_id INT NOT NULL, commands VARCHAR(100), FOREIGN KEY(ani
mal_type_id) REFERENCES animal_type(id_type) ON DELETE CASCADE);
Query OK, 0 rows affected (2,80 sec)

mysql>
```
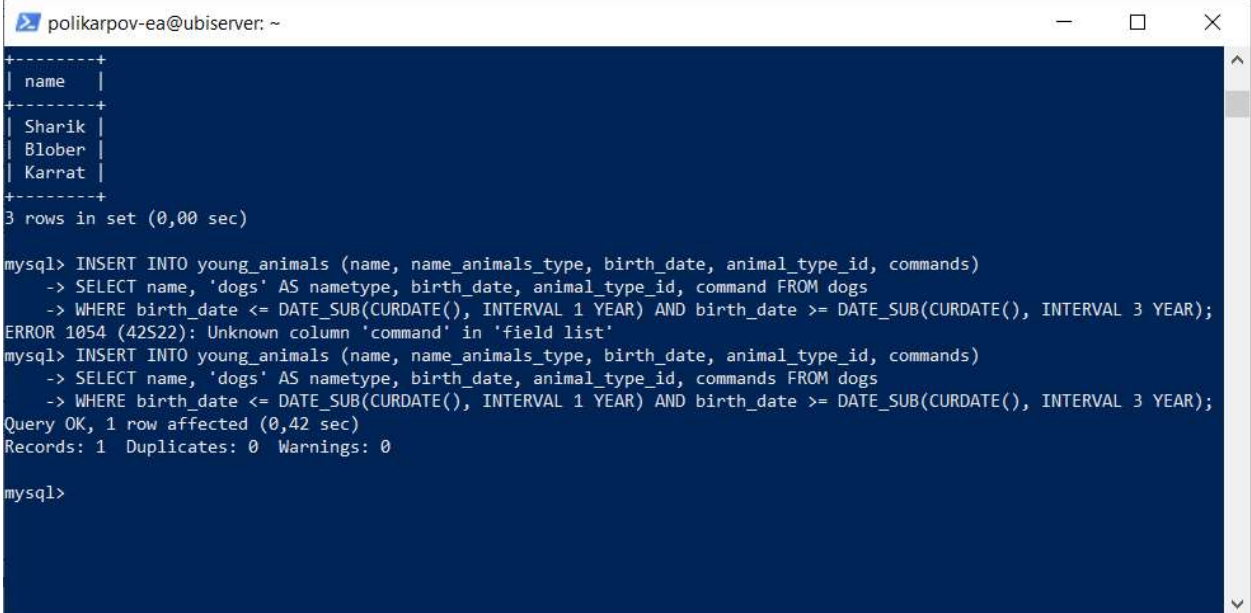
Заполним таблицу соответствующими значениями:

mysql> INSERT INTO young_animals (name, name_animals_type, birth_date, animal_type_id, commands)

   -> SELECT name, 'dogs' AS nametype, birth_date, animal_type_id, commands FROM dogs

   -> WHERE birth_date <= DATE_SUB(CURDATE(), INTERVAL 1 YEAR) AND birth_date >= DATE_SUB(CURDATE(), INTERVAL 3 YEAR);


```
+--------+
| name   |
+--------+
| Sharik |
| Blober |
| Karrat |
+--------+
3 rows in set (0,00 sec)

mysql> INSERT INTO young_animals (name, name_animals_type, birth_date, animal_type_id, commands)
    -> SELECT name, 'dogs' AS nametype, birth_date, animal_type_id, command FROM dogs
    -> WHERE birth_date <= DATE_SUB(CURDATE(), INTERVAL 1 YEAR) AND birth_date >= DATE_SUB(CURDATE(), INTERVAL 3 YEAR);
ERROR 1054 (42S22): Unknown column 'command' in 'field list'
mysql> INSERT INTO young_animals (name, name_animals_type, birth_date, animal_type_id, commands)
    -> SELECT name, 'dogs' AS nametype, birth_date, animal_type_id, commands FROM dogs
    -> WHERE birth_date <= DATE_SUB(CURDATE(), INTERVAL 1 YEAR) AND birth_date >= DATE_SUB(CURDATE(), INTERVAL 3 YEAR);
Query OK, 1 row affected (0,42 sec)
Records: 1  Duplicates: 0  Warnings: 0

mysql>
```

mysql> INSERT INTO young_animals (name, name_animals_type, birth_date, animal_type_id, commands)

   -> SELECT name, 'cats' AS nametype, birth_date, animal_type_id, commands FROM cats

   -> WHERE birth_date <= DATE_SUB(CURDATE(), INTERVAL 1 YEAR) AND birth_date >= DATE_SUB(CURDATE(), INTERVAL 3 YEAR);

INSERT INTO young_animals (name, name_animals_type, birth_date, animal_type_id, commands)

   -> SELECT name, 'hamsters' AS nametype, birth_date, animal_type_id, commands FROM hamsters

   -> WHERE birth_date <= DATE_SUB(CURDATE(), INTERVAL 1 YEAR) AND birth_date >= DATE_SUB(CURDATE(), INTERVAL 3 YEAR);

mysql> INSERT INTO young_animals (name, name_animals_type, birth_date, animal_type_id, commands)

   -> SELECT name, 'horses' AS nametype, birth_date, animal_type_id, commands FROM horses

   -> WHERE birth_date <= DATE_SUB(CURDATE(), INTERVAL 1 YEAR) AND birth_date >= DATE_SUB(CURDATE(), INTERVAL 3 YEAR);

mysql> INSERT INTO young_animals (name, name_animals_type, birth_date, animal_type_id, commands)

   -> SELECT name, 'donkeys' AS nametype, birth_date, animal_type_id, commands FROM donkeys

   -> WHERE birth_date <= DATE_SUB(CURDATE(), INTERVAL 1 YEAR) AND birth_date >= DATE_SUB(CURDATE(), INTERVAL 3 YEAR);

Проверим результат:

mysql> SELECT id, name, name_animals_type, birth_date, name_type, commands

   -> FROM young_animals

   -> LEFT JOIN animal_type ON id_type = animal_type_id;

```
    -> WHERE birth_date <= DATE_SUB(CURDATE(), INTERVAL 1 YEAR) AND birth_date >= DATE_SUB(CURDATE(), INTERVAL 3 YEAR);
Query OK, 0 rows affected (0,00 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> INSERT INTO young_animals (name, name_animals_type, birth_date, animal_type_id, commands)
    -> SELECT name, 'donkeys' AS nametype, birth_date, animal_type_id, commands FROM donkeys
    -> WHERE birth_date <= DATE_SUB(CURDATE(), INTERVAL 1 YEAR) AND birth_date >= DATE_SUB(CURDATE(), INTERVAL 3 YEAR);
Query OK, 1 row affected (0,16 sec)
Records: 1  Duplicates: 0  Warnings: 0

mysql> SELECT id, name, name_animals_type, birth_date, name_type, commands
    -> FROM young_animals
    -> LEFT JOIN animal_type ON id_type = animal_type_id;
+----+--------+-------------------+------------+--------------+--------------+
| id | name   | name_animals_type | birth_date | name_type    | commands     |
+----+--------+-------------------+------------+--------------+--------------+
|  1 | Blober | dogs              | 2021-02-01 | Pet          | Fetch        |
|  2 | Kitty  | cats              | 2022-04-19 | Pet          | Sit, Scratch |
|  3 | Moony  | cats              | 2021-11-04 | Pet          | Sit          |
|  5 | Boby   | hamsters          | 2021-10-11 | Pet          | Roll         |
|  6 | Graph  | donkeys           | 2022-05-18 | Pack animals | Walk, Stay   |
+----+--------+-------------------+------------+--------------+--------------+
5 rows in set (0,00 sec)

mysql>
```