

1. Запускаем mysql в linux и создаем базу данных Human_Friends

```
mysql> CREATE schema Human_Friends;
Query OK, 1 row affected (0,02 sec)

mysql> USE schema Human_Frineds;
ERROR 1049 (42000): Unknown database 'schema'
mysql> USE schema Human_Friends;
ERROR 1049 (42000): Unknown database 'schema'
mysql> USE Human_Friends;
Database changed
```

2. Создаем таблицы Animals, Pets, PackAnimals:

```
mysql> CREATE TABLE Animals (
  -> id INT auto_increment primary key,
  -> name varchar (50),
  -> birthDate DATE,
  -> commands TEXT
  -> );
Query OK, 0 rows affected (0,20 sec)
```

```
mysql> CREATE TABLE Pets ( id INT auto_increment primary key, animalID INT, pet
Type VARCHAR(50), FOREIGN KEY (animalID) REFERENCES Animals (id));
Query OK, 0 rows affected (0,14 sec)
```

```
mysql> CREATE TABLE PackAnimals ( id INT auto_increment primary key, animalID I
NT, petType VARCHAR(50), FOREIGN KEY (animalID) REFERENCES Animals (id));
Query OK, 0 rows affected (0,10 sec)
```

3. Заполняем таблицу Animals данными о животных и привязываем вид животных по их ID в таблицы Pets и PackAnimals

```
mysql> INSERT INTO Animals (name, birthDate, commands) VALUES ('Fido', '2020-01
-01', 'Sit, Stay, Fetch'), ('Buddy', '2023-12-12', 'Sit, Paw, Bark'), ('Bella',
'2019-11-11', 'Sit, Stay, Roll');
Query OK, 3 rows affected (0,05 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql> SELECT * FROM Animals;
+----+-----+-----+-----+
| id | name  | birthDate | commands          |
+----+-----+-----+-----+
|  1 | Fido  | 2020-01-01 | Sit, Stay, Fetch |
|  2 | Buddy | 2023-12-12 | Sit, Paw, Bark   |
|  3 | Bella | 2019-11-11 | Sit, Stay, Roll  |
+----+-----+-----+-----+
3 rows in set (0,01 sec)
```

```
mysql> INSERT INTO Animals (name, birthDate, commands) VALUES ('Whiskers', '2019-05-15', 'Sit, Pounce'), ('Hammy', '2024-12-10', 'Roll, Hide'), ('Smudge', '2020-02-20', 'Sit, Pounce, Scratch'), ('Peanut', '2023-07-12', 'Roll, Spin'), ('Oliver', '2024-06-30', 'Jump, Scratch, Meow'), ('Thunder', '2015-07-21', 'Trot, Canter, Gallop'), ('Sandy', '2016-11-03', 'Walk, Carry'), ('Eeyore', '2017-09-18', 'Walk, Carry, Bray'), ('Storm', '2022-10-19', 'Trot, Canter'), ('Dune', '2018-12-12', 'Walk, Sit'), ('Burro', '2023-06-01', 'Walk, Bray, Kick'), ('Blaze', '2016-02-27', 'Trot, Jump, Gallop'), ('Sahara', '2015-08-14', 'Walk, Run');
Query OK, 13 rows affected (0,02 sec)
Records: 13  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM Animals;
```

id	name	birthDate	commands
1	Fido	2020-01-01	Sit, Stay, Fetch
2	Buddy	2023-12-12	Sit, Paw, Bark
3	Bella	2019-11-11	Sit, Stay, Roll
4	Whiskers	2019-05-15	Sit, Pounce
5	Hammy	2024-12-10	Roll, Hide
6	Smudge	2020-02-20	Sit, Pounce, Scratch
7	Peanut	2023-07-12	Roll, Spin
8	Oliver	2024-06-30	Jump, Scratch, Meow
9	Thunder	2015-07-21	Trot, Canter, Gallop
10	Sandy	2016-11-03	Walk, Carry
11	Eeyore	2017-09-18	Walk, Carry, Bray
12	Storm	2022-10-19	Trot, Canter
13	Dune	2018-12-12	Walk, Sit
14	Burro	2023-06-01	Walk, Bray, Kick

(здесь, пока писала код, задумалась и нечаянно запишала всех животных к таблице Pets, но потом исправилась)

```
mysql> INSERT INTO Pets (animalID, petType)
-> VALUES
-> (1, 'dogs')
-> ,(2, 'dogs'),
-> (3, 'dogs'),
-> (4, 'cats')
-> ,(5, 'hamsters'),
-> (6, 'cats'),
-> (7, 'hamsters')
-> ,(8, 'cats'),
-> (9, 'Horses'),
-> (10, 'Camels'),
-> (11, 'Donkeys'),
-> (12, 'Horses'),
-> (13, 'Camels'),
-> (14, 'Donkeys'),
-> (15, 'Horses'),
-> (16, 'Camels');
Query OK, 16 rows affected (0,01 sec)
Records: 16  Duplicates: 0  Warnings: 0
```

```
mysql> SELECT * FROM Pets;
```

id	animalID	petType
1	1	dogs
2	2	dogs
3	3	dogs

```
mysql> DELETE FROM Pets WHERE petType IN ('horses', 'camels', 'donkeys');
Query OK, 8 rows affected (0,02 sec)
```

```
mysql> SELECT * FROM Pets;
+-----+-----+-----+
| id | animalID | petType |
+-----+-----+-----+
| 1 | 1 | dogs |
| 2 | 2 | dogs |
| 3 | 3 | dogs |
| 4 | 4 | cats |
| 5 | 5 | hamsters |
| 6 | 6 | cats |
| 7 | 7 | hamsters |
| 8 | 8 | cats |
+-----+-----+-----+
8 rows in set (0,00 sec)
```

4. Удаляем записи о верблюдах и объединяем лошадей и ослов в одну таблицу

```
mysql> DELETE FROM PackAnimals WHERE petType = 'camels';
Query OK, 3 rows affected (0,01 sec)
```

```
mysql> SELECT * FROM PackAnimals;
+-----+-----+-----+
| id | animalID | petType |
+-----+-----+-----+
| 1 | 9 | Horses |
| 3 | 11 | Donkeys |
| 4 | 12 | Horses |
| 6 | 14 | Donkeys |
| 7 | 15 | Horses |
+-----+-----+-----+
```

```
mysql> CREATE TABLE HorsesAndDonkeys AS
-> SELECT * FROM PackAnimals WHERE petType IN ('horses', 'donkeys');
Query OK, 5 rows affected (0,06 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM HorsesAndDonkeys'
'> ';
```

```
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> SELECT * FROM HorsesAndDonkeys;
+-----+-----+-----+
| id | animalID | petType |
+-----+-----+-----+
| 1 | 9 | Horses |
| 3 | 11 | Donkeys |
| 4 | 12 | Horses |
| 6 | 14 | Donkeys |
| 7 | 15 | Horses |
+-----+-----+-----+
5 rows in set (0,00 sec)
```

5. Создаем новую таблицу для животных возрастом от 1 до 3 и добавляем сам возраст в месяцах

```
mysql> CREATE TABLE YoungAnimals AS SELECT id, name, birthDate, commands, TIMES
TAMPDIFF (MONTH, birthDate, CURDATE()) AS AgeInMonths FROM Animals WHERE TIMES
AMPDIFF (YEAR, birthDate, CURDATE()) BETWEEN 1 AND 3;
Query OK, 4 rows affected (0,06 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM YoungAnimals;
+----+-----+-----+-----+-----+
| id | name   | birthDate | commands          | AgeInMonths |
+----+-----+-----+-----+-----+
| 2  | Buddy  | 2023-12-12 | Sit, Paw, Bark    | 16          |
| 7  | Peanut | 2023-07-12 | Roll, Spin        | 21          |
| 12 | Storm  | 2022-10-19 | Trot, Canter      | 30          |
| 14 | Burro  | 2023-06-01 | Walk, Bray, Kick  | 22          |
+----+-----+-----+-----+-----+
4 rows in set (0,00 sec)
```

6. Создаем таблицу AllAnimals, объединяя все таблицы вместе

```
mysql> CREATE TABLE AllAnimals AS SELECT A.id, A.name, A.birthDate, A.commands,
P.petType, PA.packAnimalType FROM Animals A LEFT JOIN Pets P ON A.id = P.anima
lID LEFT JOIN PackAnimals PA ON A.id = PA.animalID;
Query OK, 16 rows affected (0,04 sec)
Records: 16 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM AllAnimals;
+----+-----+-----+-----+-----+-----+
| id | name   | birthDate | commands          | petType | packAnimalType |
+----+-----+-----+-----+-----+-----+
| 1  | Fido    | 2020-01-01 | Sit, Stay, Fetch  | dogs    | NULL           |
| 2  | Buddy   | 2023-12-12 | Sit, Paw, Bark    | dogs    | NULL           |
| 3  | Bella   | 2019-11-11 | Sit, Stay, Roll   | dogs    | NULL           |
| 4  | Whiskers | 2019-05-15 | Sit, Pounce       | cats    | NULL           |
| 5  | Hammy   | 2024-12-10 | Roll, Hide        | hamsters | NULL           |
| 6  | Smudge  | 2020-02-20 | Sit, Pounce, Scratch | cats    | NULL           |
| 7  | Peanut  | 2023-07-12 | Roll, Spin        | hamsters | NULL           |
| 8  | Oliver  | 2024-06-30 | Jump, Scratch, Meow | cats    | NULL           |
+----+-----+-----+-----+-----+-----+
```

5	Hammy	2024-12-10	Roll, Hide	hamsters	NULL
6	Smudge	2020-02-20	Sit, Pounce, Scratch	cats	NULL
7	Peanut	2023-07-12	Roll, Spin	hamsters	NULL
8	Oliver	2024-06-30	Jump, Scratch, Meow	cats	NULL
9	Thunder	2015-07-21	Trot, Canter, Gallop	NULL	Horses
10	Sandy	2016-11-03	Walk, Carry	NULL	Camels
11	Eeyore	2017-09-18	Walk, Carry, Bray	NULL	Donkeys
12	Storm	2022-10-19	Trot, Canter	NULL	Horses
13	Dune	2018-12-12	Walk, Sit	NULL	Camels
14	Burro	2023-06-01	Walk, Bray, Kick	NULL	Donkeys
15	Blaze	2016-02-27	Trot, Jump, Gallop	NULL	Horses
16	Sahara	2015-08-14	Walk, Run	NULL	NULL