**mkdir Inter\_certificate**

**cd Inter\_certificate**

Задание 1

**~/Inter\_certificate$ cat > “Домашние животные”**

**собаки**

**кошки**

**хомяки**

**^d**

**~/Inter\_certificate$ cat > “Вьючные животные”**

**лошади**

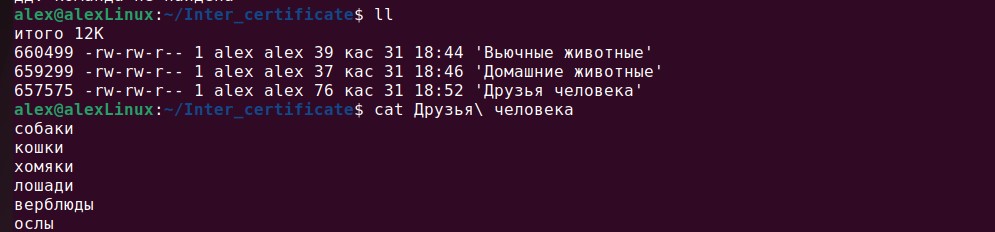
**верблюды**

**ослы**

**^d**

**~/Inter\_certificate$ cat Домашние\ животные Вьючные\ животные > "Друзья человека"**

**~/Inter\_certificate$ cat Друзья\ человека**



**~/Inter\_certificate$ mv Друзья\ человека "Man\_friends"**

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Задание 2

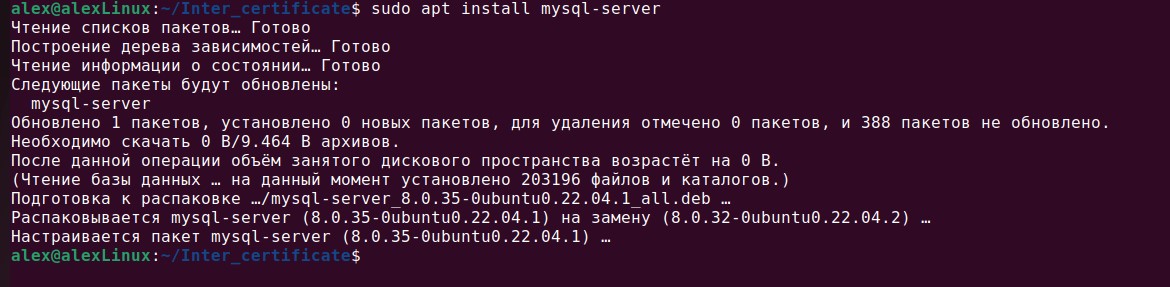
**~/Inter\_certificate$ mkdir Our\_friends**

**~/Inter\_certificate$ mv Man\_friends Our\_friends/**

----------------------------------------------------------------

Задание 3

**~/Inter\_certificate$ sudo apt install mysql-server**



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Задание 4

На сайте Opera скачали deb-пакет (в Загрузках)

**~/Inter\_certificate$ cd ../Загрузки**

Перемещаем пакет в папку для дз:

**~/Загрузки$ mv opera-stable\_94.0.4606.76\_amd64.deb ../Inter\_certificate**

**~/Загрузки$ cd ../Inter\_certificate**

Устанавливаем:

**~/Inter\_certificate$ sudo dpkg -i opera-stable\_94.0.4606.76\_amd64.deb**

Удаляем:

**~/Inter\_certificate$ sudo dpkg -r opera-stable**

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Задание 5

Собственно здесь все команды и выложены

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Задание 6

Диаграмма – файл Diagramm.png рядом

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Задание 7

**mysql> CREATE DATABASE IF NOT EXISTS `man\_friends`;**

**mysql> USE man\_friends;**

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Задание 8

Создание таблицы animal\_class с классами животных(домашние и вьючные):

**mysql> CREATE TABLE IF NOT EXISTS animal\_class ( `id` INT AUTO\_INCREMENT PRIMARY KEY, `title` varchar(100) NOT NULL );**

Создание таблицы animal\_type с типами животных:

**mysql> CREATE TABLE IF NOT EXISTS animal\_type ( `id` INT AUTO\_INCREMENT PRIMARY KEY, `title` varchar(100) NOT NULL, `animal\_class\_id` INT NOT NULL, FOREIGN KEY (animal\_class\_id) REFERENCES animal\_class(id) );**

Создание таблицы собак (все остальные по аналогии):

**mysql> CREATE TABLE IF NOT EXISTS dog ( `id` INT AUTO\_INCREMENT PRIMARY KEY, `animal\_type\_id` INT NOT NULL, `name` varchar(100) NOT NULL, `commands` varchar(255), `birthdate` date NOT NULL, FOREIGN KEY (animal\_type\_id) REFERENCES animal\_type(id) );**

-------------------------------------------------------------------

Задание 9

Заполнял таблицы в phpmyadmin

Таблица классов животных(домашние и вьючные):

**INSERT INTO animal\_class (title) VALUES ("Pets");**

**INSERT INTO animal\_class (title) VALUES ("Working Animals");**

Таблица типов животных:

**INSERT INTO animal\_type (animal\_class\_id, title) VALUES (1, "Dog"), (1, "Cat"), (1, "Hamster");**

**INSERT INTO animal\_type (animal\_class\_id, title) VALUES (2, "Horse"), (2, "Camel"), (2, "Donkey");**

Низкоуровневые таблицы:

**INSERT INTO dog (animal\_type\_id, name, commands, birthdate) VALUES**

**(1, "Rex", "Sit", "2012-11-05"),**

**(1, "Charlie", "Play with ball", "2022-11-05"),**

**(1, "Ray", "Fas", "2021-11-05");**

**INSERT INTO cat (animal\_type\_id, name, commands, birthdate) VALUES**

**(2, "Barsik", "Sit", "2015-11-05"),**

**(2, "Murzik", "Play with ball", "2022-11-05"),**

**(2, "Musya", "Lying on the sofa", "2020-11-05");**

**INSERT INTO hamster (animal\_type\_id, name, commands, birthdate) VALUES**

**(3, "Ponchik", "Eating", "2018-11-05"),**

**(3, "Vasia", "Play dead", "2022-11-05"),**

**(3, "Sonic", "Run in circles", "2020-11-05");**

**INSERT INTO horse (animal\_type\_id, name, commands, birthdate) VALUES**

**(4, "Bulat", "Pull the plow", "2012-11-05"),**

**(4, "Ankara", "Ride a horse", "2022-11-05"),**

**(4, "Vasilisa", "Carry bags", "2021-11-05");**

**INSERT INTO camel (animal\_type\_id, name, commands, birthdate) VALUES**

**(5, "Jahan", "Ride a horse", "2015-11-05"),**

**(5, "Alihan", "Carry loads", "2022-11-05"),**

**(5, "Nazar", "Shepherd the flock", "2020-11-05");**

**INSERT INTO donkey (animal\_type\_id, name, commands, birthdate) VALUES**

**(6, "IA", "Funny", "2018-11-05"),**

**(6, "Shrek's", "Funny", "2022-11-05"),**

**(6, "Maria", "Run in circles", "2020-11-05");**

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Задание 10

Удаляем верблюдов:

**DELETE FROM camel;**

Объединяем лошадей и ослов:

**CREATE TABLE IF NOT EXISTS horse\_and\_donkey (**

**`id` INT AUTO\_INCREMENT PRIMARY KEY,**

**`animal\_type\_id` INT NOT NULL,**

**`name` varchar(100) NOT NULL,**

**`commands` varchar(255),**

**`birthdate` date NOT NULL,**

**FOREIGN KEY (animal\_type\_id)**

**REFERENCES animal\_type(id)**

**);**

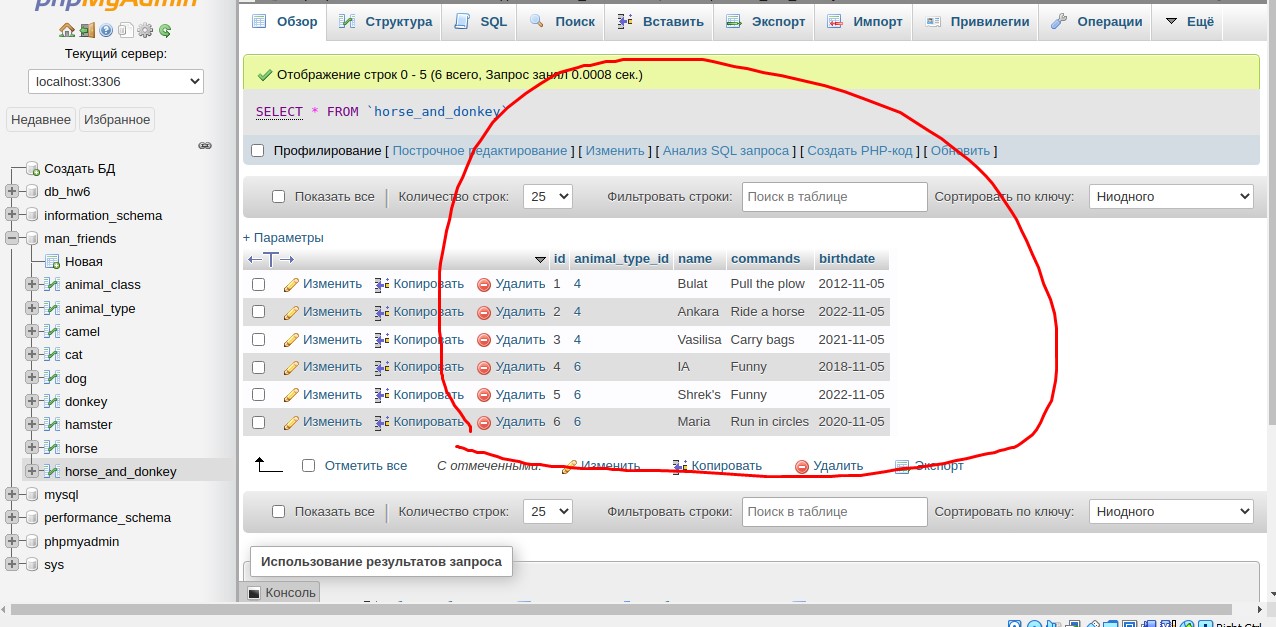
**INSERT INTO horse\_and\_donkey (animal\_type\_id, name, commands, birthdate)**

**SELECT animal\_type\_id, name, commands, birthdate FROM horse**

**UNION**

**SELECT animal\_type\_id, name, commands, birthdate FROM donkey;**

Результат:



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Задание 12

Сначала объединим всех животных, потом выберем молодых (задание 11)

**CREATE TABLE IF NOT EXISTS all\_animals (**

**`id` INT AUTO\_INCREMENT PRIMARY KEY,**

**`name` varchar(100) NOT NULL,**

**`commands` varchar(255),**

**`birthdate` date NOT NULL,**

**`animal\_type` varchar(100) NOT NULL**

**);**

Заполнить таблицу 2 варианта:

**1)INSERT INTO all\_animals (name, commands, birthdate, animal\_type)**

**SELECT name, commands, birthdate, animal\_type.title FROM dog**

**JOIN animal\_type ON dog.animal\_type\_id=animal\_type.id**

**UNION**

**SELECT name, commands, birthdate, animal\_type.title FROM cat**

**JOIN animal\_type ON cat.animal\_type\_id=animal\_type.id**

**UNION…**

**2)INSERT INTO all\_animals (name, commands, birthdate, animal\_type)**

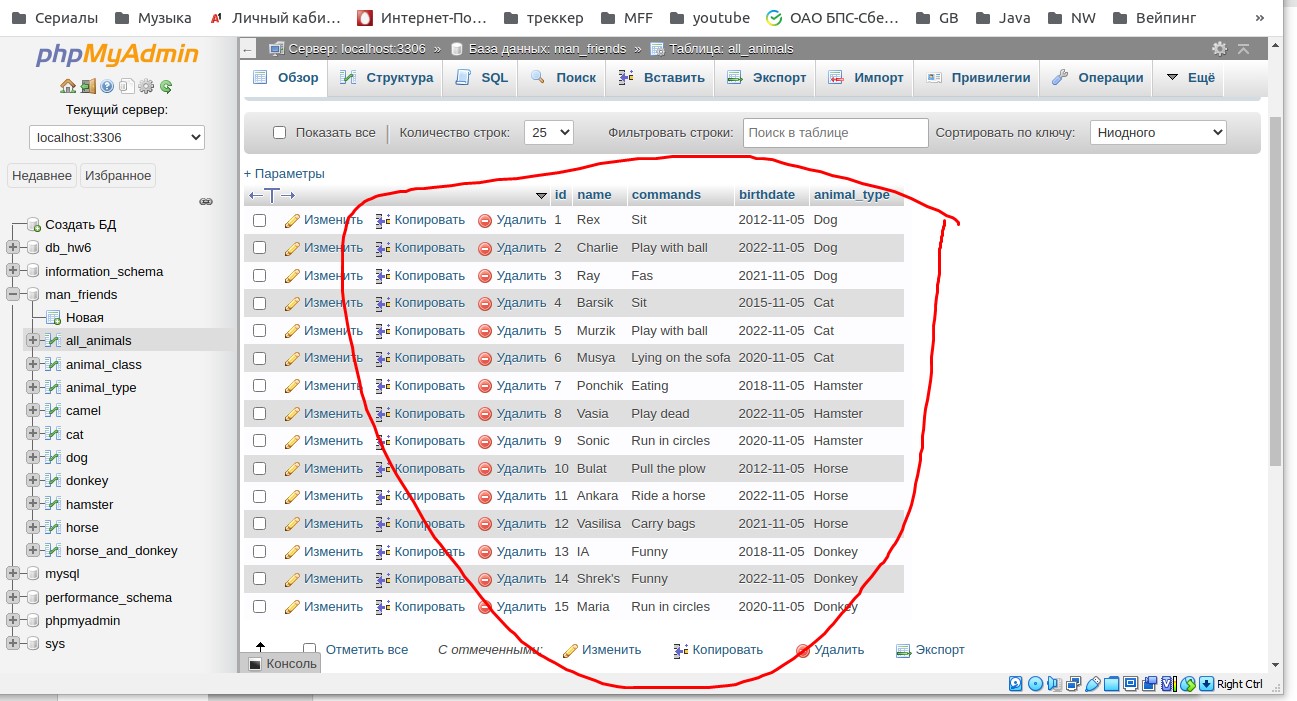
**SELECT name, commands, birthdate, "Dog" AS animal\_type FROM dog**

**UNION**

**SELECT name, commands, birthdate, "Сat" AS animal\_type FROM cat**

**UNION…**

Результат:



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Задание 11

**CREATE TABLE IF NOT EXISTS young\_animals (**

**`id` INT AUTO\_INCREMENT PRIMARY KEY,**

**`name` varchar(100) NOT NULL,**

**`commands` varchar(255),**

**`birthdate` date NOT NULL,**

**`animal\_type` varchar(100) NOT NULL**

**);**

**INSERT INTO young\_animals (name, commands, birthdate, animal\_type)**

**SELECT name, commands, birthdate, animal\_type FROM all\_animals**

**WHERE TIMESTAMPDIFF(YEAR, birthdate, CURDATE()) BETWEEN 1 AND 3;**

Результат:

