Команды MySQL для выполнения задания:

*Создаю таблицы согласно схемы*

1. CREATE DATABASE `Друзья человека`;
2. use `Друзья человека`;
3. CREATE TABLE animal   
   (id\_animal INT AUTO\_INCREMENT PRIMARY KEY NOT NULL, animal\_type VARCHAR(20) NOT NULL);
4. CREATE TABLE pets   
   (id\_pets INT AUTO\_INCREMENT PRIMARY KEY NOT NULL, animal\_kind VARCHAR(20) NOT NULL, animal\_type INT NOT NULL, FOREIGN KEY (animal\_type) REFERENCES animal (id\_animal));
5. CREATE TABLE packAnimals   
   (id\_packAnimals INT AUTO\_INCREMENT PRIMARY KEY NOT NULL, animal\_kind VARCHAR(20) NOT NULL, animal\_type INT NOT NULL, FOREIGN KEY (animal\_type) REFERENCES animal (id\_animal));
6. CREATE TABLE dogs (id INT AUTO\_INCREMENT PRIMARY KEY NOT NULL, name VARCHAR(30) NOT NULL, make\_command VARCHAR(100), birthday DATE, animal\_kind INT,FOREIGN KEY (animal\_kind) REFERENCES pets (id\_pets));
7. CREATE TABLE cats (id INT AUTO\_INCREMENT PRIMARY KEY NOT NULL, name VARCHAR(30) NOT NULL, make\_command VARCHAR(100), birthday DATE, animal\_kind INT,FOREIGN KEY (animal\_kind) REFERENCES pets (id\_pets));
8. CREATE TABLE hamsters (id INT AUTO\_INCREMENT PRIMARY KEY NOT NULL, name VARCHAR(30) NOT NULL, make\_command VARCHAR(100), birthday DATE, animal\_kind INT,FOREIGN KEY (animal\_kind) REFERENCES pets (id\_pets));
9. CREATE TABLE horses (id INT AUTO\_INCREMENT PRIMARY KEY NOT NULL, name VARCHAR(30) NOT NULL, make\_command VARCHAR(100), birthday DATE, animal\_kind INT,FOREIGN KEY (animal\_kind) REFERENCES packAnimals (id\_packAnimals));
10. CREATE TABLE donkeys (id INT AUTO\_INCREMENT PRIMARY KEY NOT NULL, name VARCHAR(30) NOT NULL, make\_command VARCHAR(100), birthday DATE, animal\_kind INT,FOREIGN KEY (animal\_kind) REFERENCES packAnimals (id\_packAnimals));
11. CREATE TABLE camels (id INT AUTO\_INCREMENT PRIMARY KEY NOT NULL, name VARCHAR(30) NOT NULL, make\_command VARCHAR(100), birthday DATE, animal\_kind INT,FOREIGN KEY (animal\_kind) REFERENCES packAnimals (id\_packAnimals));

*Заполняю низкоуровневые таблицы данными*

1. INSERT INTO animal (animal\_type) VALUES ("Pets"), ("Pack animals");
2. INSERT INTO pets (animal\_kind, animal\_type) VALUES ("Dogs", (SELECT id\_animal FROM animal WHERE animal\_type = "Pets")), ("Cats", (SELECT id\_animal FROM animal WHERE animal\_type = "Pets")), ("Hamsters", (SELECT id\_animal FROM animal WHERE animal\_type = "Pets"));
3. INSERT INTO packAnimals (animal\_kind, animal\_type) VALUES ("Horses", (SELECT id\_animal FROM animal WHERE animal\_type = "Pack animals")), ("Camels", (SELECT id\_animal FROM animal WHERE animal\_type = "Pack animals")), ("Donkeys", (SELECT id\_animal FROM animal WHERE animal\_type = "Pack animals"));
4. INSERT INTO dogs (name, make\_command, birthday, animal\_kind) VALUES ("Шарик", "Сидеть, Голос", "2023-05-06", (SELECT id\_pets FROM pets WHERE animal\_kind = "Dogs")), ("Джек", "Сидеть, Голос, Фас", "2015-06-21", (SELECT id\_pets FROM pets WHERE animal\_kind = "Dogs"));
5. INSERT INTO cats (name, make\_command, birthday, animal\_kind) VALUES ("Багира", "Лежать, к ноге", "2023-06-12", (SELECT id\_pets FROM pets WHERE animal\_kind = "Cats")), ("Шерхан", "Сидеть, Кушать", "2015-06-21", (SELECT id\_pets FROM pets WHERE animal\_kind = "Cats"));
6. INSERT INTO hamsters (name, make\_command, birthday, animal\_kind) VALUES ("Шустрик", "Катиться в шаре", "2023-02-17", (SELECT id\_pets FROM pets WHERE animal\_kind = "Hamster")), ("Федя", "Лежать", "2015-06-21", (SELECT id\_pets FROM pets WHERE animal\_kind = "Hamster"));
7. INSERT INTO horses (name, make\_command, birthday, animal\_kind) VALUES ("Жеребец", "Ко мне, барьер", "2023-01-07", (SELECT id\_packAnimals FROM packAnimals WHERE animal\_kind = "Horses")), ("Рамзан", "Ко мне", "2015-03-11", (SELECT id\_packAnimals FROM packAnimals WHERE animal\_kind = "Horses"));
8. INSERT INTO donkeys (name, make\_command, birthday, animal\_kind) VALUES ("Иа-Иа", "Ко мне, Голос", "2023-01-07", (SELECT id\_packAnimals FROM packAnimals WHERE animal\_kind = "Donkeys")), ("Игнат", "За мной, Голос", "2015-04-22", (SELECT id\_packAnimals FROM packAnimals WHERE animal\_kind = "Donkeys"));
9. INSERT INTO camels (name, make\_command, birthday, animal\_kind) VALUES ("Верблюд", "Лежать, Встать", "2023-01-07", (SELECT id\_packAnimals FROM packAnimals WHERE animal\_kind = "Camels")), ("Корабль", "Лежать, Встать, Плевать", "2015-06-12", (SELECT id\_packAnimals FROM packAnimals WHERE animal\_kind = "Camels"));

*Удаляю верблюдов и объединяю лошадей и ослов в одну таблицу*

1. DROP TABLE camels;
2. SELECT \* FROM horses UNION SELECT \* FROM donkeys;

*Создаю новую таблицу «Молодые животные»*

1. CREATE TABLE young\_animal AS (SELECT \*, TIMESTAMPDIFF(MONTH, birthday, NOW()) AS ages FROM (SELECT name, make\_command, birthday, p.animal\_kind, a\_t.animal\_type FROM dogs AS d LEFT JOIN pets AS p ON d.animal\_kind = p.id\_pets LEFT JOIN animal\_type AS a\_t ON p.animal\_type = a\_t.id\_animal UNION SELECT name, make\_command, birthday, p.animal\_kind, a\_t.animal\_type FROM cats AS c LEFT JOIN pets AS p ON c.animal\_kind = p.id\_pets LEFT JOIN animal\_type AS a\_t ON p.animal\_type = a\_t.id\_animal UNION SELECT name, make\_command, birthday, p.animal\_kind, a\_t.animal\_type FROM hamsters AS h LEFT JOIN pets AS p ON h.animal\_kind = p.id\_pets LEFT JOIN animal\_type AS a\_t ON p.animal\_type = a\_t.id\_animal UNION SELECT name, make\_command, birthday, pa.animal\_kind, a\_t.animal\_type FROM horses AS h LEFT JOIN packAnimals AS pa ON h.animal\_kind = pa.id\_packAnimals LEFT JOIN animal\_type AS a\_t ON pa.animal\_type = a\_t.id\_animal UNION SELECT name, make\_command, birthday, pa.animal\_kind, a\_t.animal\_type FROM donkeys AS d LEFT JOIN packAnimals AS pa ON d.animal\_kind = pa.id\_packAnimals LEFT JOIN animal\_type AS a\_t ON pa.animal\_type = a\_t.id\_animal) AS tmp HAVING ages BETWEEN 12 AND 36);

*Объединяю все таблицы в одну*

CREATE TABLE all\_animals AS (SELECT name, make\_command, birthday, p.animal\_kind, a\_t.animal\_type FROM dogs AS d LEFT JOIN pets AS p ON d.animal\_kind = p.id\_pets LEFT JOIN animal AS a\_t ON p.animal\_type = a\_t.id\_animal UNION SELECT name, make\_command, birthday, p.animal\_kind, a\_t.animal\_type FROM cats AS c LEFT JOIN pets AS p ON c.animal\_kind = p.id\_pets LEFT JOIN animal AS a\_t ON p.animal\_type = a\_t.id\_animal UNION SELECT name, make\_command, birthday, p.animal\_kind, a\_t.animal\_type FROM hamsters AS h LEFT JOIN pets AS p ON h.animal\_kind = p.id\_pets LEFT JOIN animal AS a\_t ON p.animal\_type = a\_t.id\_animal UNION SELECT name, make\_command, birthday, pa.animal\_kind, a\_t.animal\_type FROM horses AS h LEFT JOIN packAnimals AS pa ON h.animal\_kind = pa.id\_packAnimals LEFT JOIN animal AS a\_t ON pa.animal\_type = a\_t.id\_animal UNION SELECT name, make\_command, birthday, pa.animal\_kind, a\_t.animal\_type FROM donkeys AS d LEFT JOIN packAnimals AS pa ON d.animal\_kind = pa.id\_packAnimals LEFT JOIN animal AS a\_t ON pa.animal\_type = a\_t.id\_animal);