

## 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\_tyп = "Pack animals")), ("Donkeys", (SELECT id\_animal FROM animal WHERE animal\_tyп = "Pack animals")));
4. INSERT INTO dogs (name, make\_command, birthday, animal\_kind) VALUES ("Шарик", "Сидеть, Голос", "2023-05-06", (SELECT id\_пets FROM пets WHERE animal\_kind = "Dogs")), ("Джек", "Сидеть, Голос, Фас", "2015-06-21", (SELECT id\_пets FROM пets WHERE animal\_kind = "Dogs"));
  5. INSERT INTO cats (name, make\_command, birthday, animal\_kind) VALUES ("Багира", "Лежать, к ноге", "2023-06-12", (SELECT id\_пets FROM пets WHERE animal\_kind = "Cats")), ("Шерхан", "Сидеть, Кушать", "2015-06-21", (SELECT id\_пets FROM пets WHERE animal\_kind = "Cats"));
  6. INSERT INTO hamsters (name, make\_command, birthday, animal\_kind) VALUES ("Шустрик", "Катиться в шаре", "2023-02-17", (SELECT id\_пets FROM пets WHERE animal\_kind = "Hamster")), ("Федя", "Лежать", "2015-06-21", (SELECT id\_пets FROM пets WHERE animal\_kind = "Hamster"));
  7. INSERT INTO horses (name, make\_command, birthday, animal\_kind) VALUES ("Жеребец", "Ко мне, барьер", "2023-01-07", (SELECT id\_пackAnimals FROM пackAnimals WHERE animal\_kind = "Horses")), ("Рамзан", "Ко мне", "2015-03-11", (SELECT id\_пackAnimals FROM пackAnimals 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\_пackAnimals FROM пackAnimals WHERE animal\_kind = "Donkeys")), ("Игнат", "За мной, Голос", "2015-04-22", (SELECT id\_пackAnimals FROM пackAnimals WHERE animal\_kind = "Donkeys"));
  9. INSERT INTO camels (name, make\_command, birthday, animal\_kind) VALUES ("Верблюд", "Лежать, Встать", "2023-01-07", (SELECT id\_пackAnimals FROM пackAnimals WHERE animal\_kind = "Camels")), ("Корабль", "Лежать, Встать, Плевать", "2015-06-12", (SELECT id\_пackAnimals FROM пackAnimals 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, п\_animal\_kind, a\_t.animal\_tyп FROM dogs AS d LEFT JOIN пets AS п ON d.animal\_kind = п.id\_пets LEFT JOIN animal\_tyп AS a\_t ON п\_animal\_tyп = a\_t.id\_animal UNION SELECT name, make\_command, birthday, п\_animal\_kind, a\_t.animal\_tyп FROM cats AS c LEFT JOIN пets AS п ON c.animal\_kind = п.id\_пets LEFT JOIN animal\_tyп AS a\_t ON п\_animal\_tyп = a\_t.id\_animal UNION SELECT name, make\_command, birthday, п\_animal\_kind, a\_t.animal\_tyп FROM hamsters AS h LEFT JOIN пets AS п ON

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h.animal_kind = a_id_ets LEFT JOIN animal_ty AS a_t ON a.animal_ty =
a_t.id_animal UNION SELECT name, make_command, birthday, a.animal_kind,
a_t.animal_ty FROM horses AS h LEFT JOIN ackAnimals AS a ON h.animal_kind
= a.id_ackAnimals LEFT JOIN animal_ty AS a_t ON a.animal_ty =
a_t.id_animal UNION SELECT name, make_command, birthday, a.animal_kind,
a_t.animal_ty FROM donkeys AS d LEFT JOIN ackAnimals AS a ON
d.animal_kind = a.id_ackAnimals LEFT JOIN animal_ty AS a_t ON a.animal_ty
= a_t.id_animal) AS tm HAVING ages BETWEEN 12 AND 36);

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*Объединяю все таблицы в одну*

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CREATE TABLE all_animals AS (SELECT name, make_command, birthday, a.animal_kind,
a_t.animal_ty FROM dogs AS d LEFT JOIN ets AS a ON d.animal_kind = a.id_ets LEFT
JOIN animal AS a_t ON a.animal_ty = a_t.id_animal UNION SELECT name,
make_command, birthday, a.animal_kind, a_t.animal_ty FROM cats AS c LEFT JOIN ets AS
a ON c.animal_kind = a.id_ets LEFT JOIN animal AS a_t ON a.animal_ty = a_t.id_animal
UNION SELECT name, make_command, birthday, a.animal_kind, a_t.animal_ty FROM
hamsters AS h LEFT JOIN ets AS a ON h.animal_kind = a.id_ets LEFT JOIN animal AS a_t
ON a.animal_ty = a_t.id_animal UNION SELECT name, make_command, birthday,
a.animal_kind, a_t.animal_ty FROM horses AS h LEFT JOIN ackAnimals AS a ON
h.animal_kind = a.id_ackAnimals LEFT JOIN animal AS a_t ON a.animal_ty =
a_t.id_animal UNION SELECT name, make_command, birthday, a.animal_kind,
a_t.animal_ty FROM donkeys AS d LEFT JOIN ackAnimals AS a ON d.animal_kind =
a.id_ackAnimals LEFT JOIN animal AS a_t ON a.animal_ty = a_t.id_animal);

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