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CREATE DATABASE Human_friends;

USE Human_friends;
CREATE TABLE animal_classes
(
    Id INT AUTO_INCREMENT PRIMARY KEY,
    Class_name VARCHAR(20)
);

INSERT INTO animal_classes (Class_name)
VALUES ('вьючные'),
('домашние');

CREATE TABLE packed_animals
(
    Id INT AUTO_INCREMENT PRIMARY KEY,
    Genus_name VARCHAR (20),
    Class_id INT,
    FOREIGN KEY (Class_id) REFERENCES animal_classes (Id) ON DELETE CASCADE ON UPDATE CASCADE
);

INSERT INTO packed_animals (Genus_name, Class_id)
VALUES ('Лошади', 1),
('Ослы', 1),
('Верблюды', 1);

CREATE TABLE home_animals
(
    Id INT AUTO_INCREMENT PRIMARY KEY,
    Genus_name VARCHAR (20),
    Class_id INT,
    FOREIGN KEY (Class_id) REFERENCES animal_classes (Id) ON DELETE CASCADE ON UPDATE CASCADE
);

INSERT INTO home_animals (Genus_name, Class_id)
VALUES ('Кошки', 2),
('Собаки', 2),
('Хомяки', 2);

CREATE TABLE cats
(
    Id INT AUTO_INCREMENT PRIMARY KEY,
    Name VARCHAR(20),
    Birthday DATE,
    Commands VARCHAR(45),
    Genus_id int,
    Foreign KEY (Genus_id) REFERENCES home_animals (Id) ON DELETE CASCADE ON UPDATE CASCADE
);

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9. Заполнить низкоуровневые таблицы именами(животных), командами которые они выполняют и датами рождения

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INSERT INTO cats (Name, Birthday, Commands, Genus_id)
VALUES ('Толя', '2009-01-11', 'спи', 1),
('Сергея', '2010-09-01', "гуляй", 1),
('Данил', '2019-08-01', "кушай", 1);

CREATE TABLE dogs
(
    Id INT AUTO_INCREMENT PRIMARY KEY,
    Name VARCHAR(20),
    Birthday DATE,
    Commands VARCHAR(45),
    Genus_id int,
    Foreign KEY (Genus_id) REFERENCES home_animals (Id) ON DELETE CASCADE ON UPDATE CASCADE
);

INSERT INTO dogs (Name, Birthday, Commands, Genus_id)
VALUES ('Бова', '2018-11-02', 'укуси тетю', 2),
('Игорь', '2020-07-10', "фас", 2),
('Добби', '2009-08-08', "принеси носок", 2),
('Гарольд', '2005-05-05', "улыбайся", 2);

CREATE TABLE hamsters
(
    Id INT AUTO_INCREMENT PRIMARY KEY,
    Name VARCHAR(20),
    Birthday DATE,
    Commands VARCHAR(45),
    Genus_id int,
    Foreign KEY (Genus_id) REFERENCES home_animals (Id) ON DELETE CASCADE ON UPDATE CASCADE
);

INSERT INTO hamsters (Name, Birthday, Commands, Genus_id)
VALUES ('Пушист', '2022-10-10', 'бери', 3),
('Гриша', '2021-10-10', "фас", 3),
('Володя', '2021-10-10', "фас", 3),
('Олер', '2020-10-10', "фас", 3);

CREATE TABLE horses
(
    Id INT AUTO_INCREMENT PRIMARY KEY,
    Name VARCHAR(20),
    Birthday DATE,
    Commands VARCHAR(45),
    Genus_id int,
    Foreign KEY (Genus_id) REFERENCES packed_animals (Id) ON DELETE CASCADE ON UPDATE CASCADE
);

INSERT INTO horses (Name, Birthday, Commands, Genus_id)
VALUES ('Зоря', '2018-10-10', 'ложись спать', 1),
('Гнедой', '2018-10-10', "укуси", 1),
('Филия', '2018-10-10', "легни", 1),
('Барсик', '2020-10-10', "мяу", 1);

CREATE TABLE donkeys
(
    Id INT AUTO_INCREMENT PRIMARY KEY,
    Name VARCHAR(20),
    Birthday DATE,
    Commands VARCHAR(45),
    Genus_id int,
    Foreign KEY (Genus_id) REFERENCES packed_animals (Id) ON DELETE CASCADE ON UPDATE CASCADE
);

INSERT INTO donkeys (Name, Birthday, Commands, Genus_id)
VALUES ('Исаак', '2010-10-10', NULL, 2),
('Ганс', '2020-10-10', "", 2),
('Бурухтан', '2010-10-10', "", 2),
('Иван', '2002-10-10', NULL, 2);

CREATE TABLE camels
(
    Id INT AUTO_INCREMENT PRIMARY KEY,
    Name VARCHAR(20),

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        Birthday DATE,
        Commands VARCHAR(45),
        Genus_id int,
        Foreign KEY (Genus_id) REFERENCES packed_animals (Id) ON DELETE CASCADE ON UPDATE CASCADE
    );
INSERT INTO camels (Name, Birthday, Commands, Genus_id)
VALUES ('Владимир', '2012-10-10', 'плюнь', 3),
('Феофан', '2007-02-10', "установи свои порядки в шатре", 3),
('Денчик', '2010-10-10', "найди бедуина", 3),
('Рик', '2020-10-10', "обхаркай негодяя", 3);

SET SQL_SAFE_UPDATES = 0;
DELETE FROM camels;

SELECT Name, Birthday, Commands FROM horses
UNION SELECT Name, Birthday, Commands FROM donkeys;

CREATE TEMPORARY TABLE animals AS
SELECT *, 'Лошади' as genus FROM horses
UNION SELECT *, 'Ослы' AS genus FROM donkeys
UNION SELECT *, 'Собаки' AS genus FROM dogs
UNION SELECT *, 'Кошки' AS genus FROM cats
UNION SELECT *, 'Хомяки' AS genus FROM hamsters;

CREATE TABLE young_animals AS
SELECT Name, Birthday, Commands, genus, TIMESTAMPDIFF(MONTH, Birthday, CURDATE()) AS Age_in_month
FROM animals WHERE Birthday BETWEEN ADDDATE(CURDATE(), INTERVAL -3 YEAR) AND ADDDATE(CURDATE(), INTERVAL -1 YEAR);

SELECT * FROM young_animals;

SELECT h.Name, h.Birthday, h.Commands, pa.Genus_name, y.Age_in_month
FROM horses h
LEFT JOIN young_animals y ON y.Name = h.Name
LEFT JOIN packed_animals pa ON pa.Id = h.Genus_id
UNION
SELECT d.Name, d.Birthday, d.Commands, pa.Genus_name, y.Age_in_month
FROM donkeys d
LEFT JOIN young_animals y ON y.Name = d.Name
LEFT JOIN packed_animals pa ON pa.Id = d.Genus_id
UNION
SELECT c.Name, c.Birthday, c.Commands, ha.Genus_name, y.Age_in_month
FROM cats c
LEFT JOIN young_animals y ON y.Name = c.Name
LEFT JOIN home_animals ha ON ha.Id = c.Genus_id
UNION
SELECT d.Name, d.Birthday, d.Commands, ha.Genus_name, y.Age_in_month
FROM dogs d
LEFT JOIN young_animal y ON y.Name = d.Name
LEFT JOIN home_animals ha ON ha.Id = d.Genus_id
UNION
SELECT hm.Name, hm.Birthday, hm.Commands, ha.Genus_name, y.Age_in_month
FROM hamsters hm
LEFT JOIN young_animal y ON y.Name = hm.Name
LEFT JOIN home_animals ha ON ha.Id = hm.Genus_id;

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