- Создать таблицы, соответствующие иерархии из вашей диаграммы классов. Заполнить таблицы данными о животных, их командах и датами рождения.

USE humanfriends;

CREATE TABLE IF NOT EXISTS Cats(

    id SERIAL PRIMARY KEY,

    Name VARCHAR(255) NOT NULL,

    Type VARCHAR(255) NOT NULL,

    BirthDay DATE NOT NULL,

    Commands VARCHAR(255) NOT NULL

);

INSERT Cats(Name, Type, BirthDay, Commands)

VALUES

('Tobik', 'Cat', '2008-10-23', 'Sit, Stay'),

('Barsik', 'Cat', '2020-08-23', 'Sit, Pounce'),

('Gavr', 'Cat', '2008-10-23', 'Sit, Scratch');

CREATE TABLE IF NOT EXISTS Dogs(

    id SERIAL PRIMARY KEY,

    Name VARCHAR(255) NOT NULL,

    Type VARCHAR(255) NOT NULL,

    BirthDay DATE NOT NULL,

    Commands VARCHAR(255) NOT NULL

);

INSERT Dogs(Name, Type, BirthDay, Commands)

VALUES

('Tor', 'Dog', '2019-11-09', 'Sit, Stay, Fetch'),

('Luna', 'Dog', '2020-08-23', 'Sit, Pounce'),

('Sharik', 'Dog', '2008-10-23', 'Sit, Scratch');

CREATE TABLE IF NOT EXISTS Hamsters(

    id SERIAL PRIMARY KEY,

    Name VARCHAR(255) NOT NULL,

    Type VARCHAR(255) NOT NULL,

    BirthDay DATE NOT NULL,

    Commands VARCHAR(255) NOT NULL

);

INSERT Hamsters(Name, Type, BirthDay, Commands)

VALUES

('Hammy', 'Hamster', '2020-01-02', 'Roll, Hide'),

('Ganny', 'Hamster', '2021-01-02', 'Roll, Hide'),

('Tonny', 'Hamster', '2022-01-02', 'Roll, Hide');

CREATE TABLE IF NOT EXISTS Horses(

    id SERIAL PRIMARY KEY,

    Name VARCHAR(255) NOT NULL,

    Type VARCHAR(255) NOT NULL,

    BirthDay DATE NOT NULL,

    Commands VARCHAR(255) NOT NULL

);

INSERT Horses(Name, Type, BirthDay, Commands)

VALUES

('Thunder', 'Horse', '2015-12-09', 'Trot, Canter'),

('Jonny', 'Horse', '2020-12-09', 'Trot, Canter'),

('Pon', 'Horse', '2022-12-09', 'Trot, Canter');

CREATE TABLE IF NOT EXISTS Camels(

    id SERIAL PRIMARY KEY,

    Name VARCHAR(255) NOT NULL,

    Type VARCHAR(255) NOT NULL,

    BirthDay DATE NOT NULL,

    Commands VARCHAR(255) NOT NULL

);

INSERT Camels(Name, Type, BirthDay, Commands)

VALUES

('Sandy', 'Camel', '2016-01-02', 'Walk, Carry'),

('Bandy', 'Camel', '2020-01-02', 'Walk, Carry'),

('Goody', 'Camel', '2022-01-02', 'Walk, Carry');

CREATE TABLE IF NOT EXISTS Donkeys(

    id SERIAL PRIMARY KEY,

    Name VARCHAR(255) NOT NULL,

    Type VARCHAR(255) NOT NULL,

    BirthDay DATE NOT NULL,

    Commands VARCHAR(255) NOT NULL

);

INSERT Donkeys(Name, Type, BirthDay, Commands)

VALUES

('Burro', 'Donkey', '2019-01-23', 'Walk, Kick'),

('Durro', 'Donkey', '2020-01-23', 'Walk, Kick'),

('Gurro', 'Donkey', '2021-01-23', 'Walk, Kick');

CREATE TABLE IF NOT EXISTS Pets AS (

SELECT Name, Type, BirthDay, Commands FROM Cats

UNION

SELECT Name, Type, BirthDay, Commands FROM Dogs

UNION

SELECT Name, Type, BirthDay, Commands FROM Hamsters

);

DELETE FROM Camels;

CREATE TABLE IF NOT EXISTS Pack\_animals AS (

SELECT Name, Type, BirthDay, Commands FROM Horses

UNION

SELECT Name, Type, BirthDay, Commands FROM Donkeys

UNION

SELECT Name, Type, BirthDay, Commands FROM Camels

);

- Удалить записи о верблюдах и объединить таблицы лошадей и ослов.

DELETE FROM Camels;

CREATE TABLE IF NOT EXISTS Pack\_animals AS (

SELECT Name, Type, BirthDay, Commands FROM Horses

UNION

SELECT Name, Type, BirthDay, Commands FROM Donkeys

UNION

SELECT Name, Type, BirthDay, Commands FROM Camels

);

- Создать новую таблицу для животных в возрасте от 1 до 3 лет и вычислить их возраст с точностью до месяца.

CREATE TABLE IF NOT EXISTS young\_animals AS (

SELECT Name, Type, BirthDay, TIMESTAMPDIFF(MONTH, BirthDay, CURDATE()) AS Age\_Mounth

FROM animals

WHERE TIMESTAMPDIFF(MONTH, BirthDay, CURDATE()) BETWEEN 12 AND 36

);

- Объединить все созданные таблицы в одну, сохраняя информацию о принадлежности к исходным таблицам.

CREATE TABLE IF NOT EXISTS animals AS (

SELECT Name, Type, BirthDay, Commands, 'Horses' AS Belong FROM Horses

UNION

SELECT Name, Type, BirthDay, Commands, 'Donkeys' AS Belong FROM Donkeys

UNION

SELECT Name, Type, BirthDay, Commands, 'Camels' AS Belong FROM Camels

UNION

SELECT Name, Type, BirthDay, Commands, 'Cats' AS Belong FROM Cats

UNION

SELECT Name, Type, BirthDay, Commands, 'Dogs' AS Belong FROM Dogs

UNION

SELECT Name, Type, BirthDay, Commands, 'Hamsters' AS Belong FROM Hamsters

);