- Создать таблицы, соответствующие иерархии из вашей диаграммы классов.

CREATE TABLE PETS

(

ID INT PRIMARY KEY,

NAME VARCHAR(10),

TYPE VARCHAR(10),

BIRTHDATE VARCHAR(10),

COMMANDS JSON

);

CREATE TABLE PACKANIMALS

(

ID INT PRIMARY KEY,

NAME VARCHAR(10),

TYPE VARCHAR(10),

BIRTHDATE VARCHAR(10),

COMMANDS JSON

);

- Заполнить таблицы данными о животных, их командах и датами рождения.

INSERT INTO PETS (ID, NAME, TYPE, BIRTHDATE, COMMANDS)

VALUES (1,' Fido ', 'Dog', '2020-01-01, '[Sit, Stay, Fetch]'),

(2, 'Whiskers', 'Cat', '2019-05-15', '[Sit, Pounce]'),

(3, 'Hammy', 'Hamster', '2021-03-10', '[Roll, Hide]'),

(4, 'Buddy', 'Dog', '2018-12-10', '[Sit, Paw, Bark]'),

(5, 'Smudge', 'Cat', '2020-02-20', '[Sit,Pounche,Scratch]'),

(6, 'Peanut', 'Hamster', '2021-08-01', '[Roll, Spin]'),

(7, 'Bella', 'Dog', '2019-11-11', '[Sit, Stay, Roll]'),

(8, 'Oliver', 'Cat', '2020-06-30', '[Meow, Scratch, Jump]');

INSERT INTO PACKANIMAL (ID, NAME, TYPE, BIRTHDATE, COMMANDS)

VALUES (1,'Thunder', 'Horse', '2015-07-21’, '[Trot, Canter, Gallop]'),

(2, 'Sandy', ‘Camel', '2016-11-03', '[Walk, CarryLoad]'),

(3, 'Eeyore', 'Donkey', '2017-09-18', '[Walk, CarryLoad, Bray]'),

(4, 'Storm', 'Horse', '2014-05-05', '[Trot, Canter]'),

(5, 'Dune', 'Camel', '2018-12-12', '[Walk, Sit]'),

(6, 'Burro', 'Donkey', '2019-01-23', '[Walk, Bray, Kick]'),

(7, 'Blaze', 'Horse', '2016-02-29', '[Trot, Jump, Gallop]'),

(8, 'Sahara', 'Camel', '2015-08-14', '[Walk, Run]');

CREATE TABLE CATS (

SELECT ID, NAME, BIRTHDATE, COMMANDS FROM PETS WHERE TYPE = ‘Cat’;

);

CREATE TABLE DOGS (

SELECT ID, NAME, BIRTHDATE, COMMANDS FROM PETS WHERE TYPE = ‘Dog’;

);

CREATE TABLE HAMSTERS (

SELECT ID, NAME, BIRTHDATE, COMMANDS FROM PETS WHERE TYPE = ‘Hamster’;

);

CREATE TABLE HORSES (

SELECT ID, NAME, BIRTHDATE, COMMANDS FROM PACKANIMALS WHERE TYPE = ‘Horse’;

);

CREATE TABLE CAMELS (

SELECT ID, NAME, BIRTHDATE, COMMANDS FROM PACKANIMALS WHERE TYPE = ‘Camel’;

);

CREATE TABLE DONKEYS (

SELECT ID, NAME, BIRTHDATE, COMMANDS FROM PACKANIMALS WHERE TYPE = ‘Donkey’;

);

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

DELETE FROM CAMELS;

DELETE FROM PACKANIMALS WHERE TYPE = ‘Camel’;

SELECT \* FROM HORSES UNION SELECT \* FROM DONKEYS;

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

CREATE TABLE YOUNGANIMALS AS

SELECT

ID,

NAME,

TYPE,

EXTRACT(MONTH FROM (BIRTHDATE + INTERVAL 1 MONTH \* (YEAR(CURRENT\_DATE) - YEAR(BIRTHDATE)) - 1)) AS AGE

FROM PETS

WHERE

(YEAR(CURRENT\_DATE) - YEAR(BIRTHDATE)) \* 12 + MONTH(BIRTHDATE) BETWEEN 1 AND 36

;

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

SELECT ID, NAME, TYPE, BIRTHDATE, COMMANDS, 'Cats' as source\_table FROM

CATS

UNION

SELECT ID, NAME, TYPE, BIRTHDATE, COMMANDS, 'dogs' from DOGS

UNION

SELECT ID, NAME, TYPE, BIRTHDATE, COMMANDS, 'hamsters' from HAMSTERS

UNION

SELECT ID, NAME, TYPE, BIRTHDATE, COMMANDS, 'horses' from HORSES

UNION

SELECT ID, NAME, TYPE, BIRTHDATE, COMMANDS, 'camels' from CAMELS

UNION

SELECT ID, NAME, TYPE, BIRTHDATE, COMMANDS, 'donkeys' from DONKEYS;