MySQL 8.0.28

#Создание таблиц

CREATE TABLE subscriber (

id\_subscriber INT PRIMARY KEY AUTO\_INCREMENT,

id\_surname INT

);

CREATE TABLE subscriber\_surname (

id\_surname INT PRIMARY KEY,

surname VARCHAR(33)

);

CREATE TABLE type\_phone (

id\_type\_phone INT PRIMARY KEY AUTO\_INCREMENT,

name ENUM(

'отдельный телефон',

'таксофон', 'спаренный телефон'

)

);

CREATE TABLE application (

id\_application INT PRIMARY KEY AUTO\_INCREMENT,

id\_phone INT, date DATE

);

CREATE TABLE phone (

id\_phone INT PRIMARY KEY AUTO\_INCREMENT,

id\_subscriber INT,

phone VARCHAR(15),

id\_type\_phone INT

);

#Заполнение таблиц

INSERT type\_phone

VALUES

(

1, 'отдельный телефон'

),

(2, 'таксофон'),

(

3, 'спаренный телефон'

);

INSERT phone

VALUES

(1, 1, '251111111', 1),

(2, 1, '292222222', 2),

(3, 2, '333333333', 3),

(4, 2, '334444444', 1),

(5, 2, '255555555', 2),

(6, 3, '296666666', 3),

(7, 3, '337777777', 1);

INSERT application

VALUES

(1, 2, '2020-03-01'),

(2, 2, '2021-01-11'),

(3, 3, '2022-11-22'),

(4, 3, '2020-08-21'),

(5, 5, '2021-07-09'),

(6, 6, '2022-07-17'),

(7, 2, '2021-12-24'),

(8, 2, '2020-07-07'),

(9, 4, '2020-09-06'),

(10, 3, '2020-08-19'),

(11, 3, '2020-01-03');

INSERT subscriber\_surname

VALUES

(1, 'Пушкин'),

(2, 'Иванов'),

(3, 'Петров');

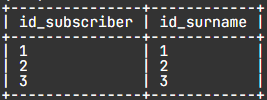
INSERT subscriber

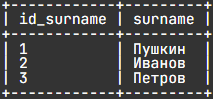
VALUES

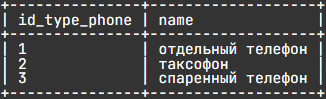
(1, 1),

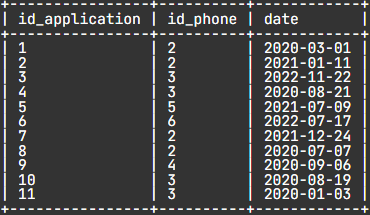
(2, 2),

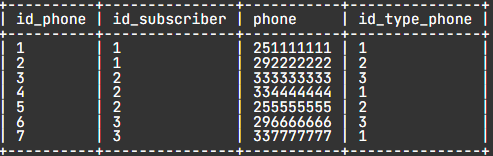
(3, 3);

 - SUBSCRIBER

 - SUBSCRIBER\_SURNAME

 - TYPE\_PHONE

 - APPLICATION

 - PHONE

# 1. For August 2020:

SELECT

\*

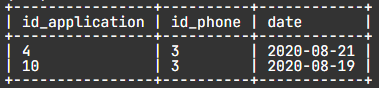
FROM

application

WHERE

MONTH(date) = 8

AND YEAR(date) = 2020;



# 2. Number of telephones by line type:

SELECT

name line,

COUNT(\*) total\_number\_with\_this\_line

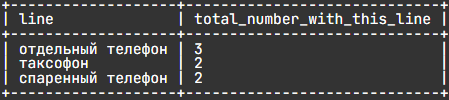
FROM

phone

JOIN type\_phone USING(id\_type\_phone)

GROUP BY

id\_type\_phone;



# 3. Phones for which there are applications:

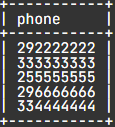
SELECT

DISTINCT phone

FROM

phone

JOIN application USING(id\_phone);



# 4. Sort the first 3 numbers from the table by last name:

SELECT

phone,

surname,

name type\_phone

FROM

subscriber\_surname

JOIN subscriber USING(id\_surname)

JOIN (

SELECT

phone,

id\_subscriber,

id\_type\_phone

FROM

phone

LIMIT

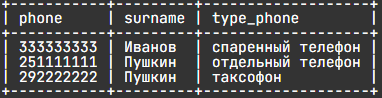
3

) temporary\_table USING(id\_subscriber)

JOIN type\_phone USING(id\_type\_phone)

ORDER BY

2;



# \*5:

CREATE TABLE phone\_archive (

id\_phone\_archive INT PRIMARY KEY AUTO\_INCREMENT,

id\_subscriber INT,

phone VARCHAR(15),

id\_type\_phone INT,

deletion\_date DATE

);

INSERT phone\_archive

VALUES

(1, 1, '251111111', 1, '2022-02-02'),

(2, 2, '251111111', 2, '2021-01-01'),

(3, 3, '296666666', 3, '2022-12-12'),

(4, 1, '296666666', 1, '2021-11-11'),

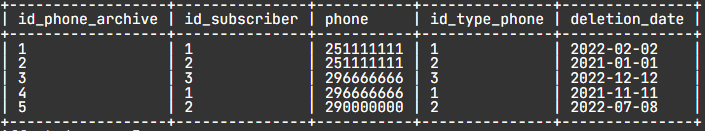
(5, 2, '290000000', 2, '2022-07-08');

SELECT

\*

FROM

phone\_archive;



WITH temporary AS (

SELECT

phone

FROM

phone

UNION

SELECT

phone

FROM

phone\_archive

)

SELECT

phone

FROM

temporary;

