create table classes(

id integer primary key,

id\_classroom\_teacher integer Unique,

id\_type integer Unique,

students\_quantity integer,

letter char,

description json,

Constraint classe\_fk Foreign Key(id\_type) References classes\_types (id))

create table classes\_types(

id integer primary key,

name varchar(50))

create table students(

full\_name varchar(150) primary key,

birthday date,

gender varchar(20),

address varchar(100),

father\_full\_name varchar(150),

mather\_full\_name varchar(150),

id\_class integer,

add\_inform varchar(500),

Constraint students\_fk Foreign Key(id\_class) References classes (id))

create table employees(

id integer primary key,

full\_name varchar(150),

age integer,

gender varchar(20),

phone varchar(20),

post varchar(150),

Constraint employees\_classes\_fk Foreign Key(id) References classes (id\_classroom\_teacher),

Constraint employees\_subject\_fk Foreign Key(id) References subject (id))

create table subject(

id integer primary key,

name varchar(100),

description varchar(500),

id\_employee integer,

Constraint subject\_fk Foreign Key(id) References schedule (id\_subject))

create table schedule(

ddate date primary key,

week\_day varchar(50),

id\_class integer,

id\_subject integer Unique,

start\_time time,

end\_time time)

UPDATE classes SET description = '{"Обучение":7,"Создание":2016}' WHERE id=1;

UPDATE classes SET description = '{"Обучение":5,"Создание":2018}' WHERE id=2;

UPDATE classes SET description = '{"Обучение":10,"Создание":2013}' WHERE id=3;

UPDATE classes SET description = '{"Обучение":2,"Создание":2021}' WHERE id=4;

UPDATE classes SET description = '{"Обучение":8,"Создание":2015}' WHERE id=5;

Представления:

1. SELECT name FROM subject s, employees e

WHERE s.id\_employee=e.id and e.full\_name='Воронин Максим Артемьевич'

1. select\* from schedule

where id\_class =(select id from classes where letter='Б' and id\_type=7)

1. select \* from schedule

where id\_subject in (SELECT s.id FROM subject s, employees e WHERE s.id\_employee=e.id and e.full\_name='Воронин Максим Артемьевич')

1. select full\_name,to\_char(birthday, 'dd.mm.yyyy'), gender, address, father\_full\_name, mather\_full\_name, id\_class, add\_inform from students

where id\_class=(select id from classes where letter='Б' and id\_type=7)

1. select count(\*) from schedule

where id\_class =(select id from classes where letter='Б' and id\_type=7)

1. SELECT id\_class, COUNT(\*) FROM students

GROUP BY id\_class;