**Вводные:**

Есть 3 таблицы с данными.

В таблице client\_info хранится информация о клиентах, в частности, пол, возраст и тд.

В таблице payments хранится информация обо всех клиентских платежах.

В таблице city\_info хранится расшифровка идентификаторов городов и наименования федеральных округов, в которых расположены клиентские города.

**Задание 2.1**

Для федерального округа "Поволжье" выведите динамику суммарных платежей по дням.

with db as

(

select \*

, date\_trunc('day', time\_payment) as day

from payments\_test as p

left join client\_info as c on p.id\_client=c.id\_client

left join city\_info as g on c.id\_city = g.id\_city

)

select day

, name\_region

, sum(amt\_payment) as total\_amount

, count(amt\_payment) as cnt\_amount

from db

where name\_region like 'Поволжье'

group by name\_region, day

order by name\_region, day

**Задание 2.2**

Для каждого города найдите долю мужчин (% мужчин среди всех клиентов в данном городе). Ограничьтесь только клиентами, которым от 20 до 40 лет. В выводе используйте названия городов, а не идентификаторы.

select name\_city

, sum(case when gender like 'men' and age between 20 and 40 then 1 else 0 end) as cnt\_men

, sum(case when gender like 'woman' and age between 20 and 40 then 1 else 0 end) as cnt\_women

, sum(case when age between 20 and 40 then 1 else 0 end) as cnt\_client

, case when sum(case when age between 20 and 40 then 1 else 0 end) >0

then

sum(case when gender like 'men' and age between 20 and 40 then 1 else 0 end)/sum(case when age between 20 and 40 then 1 else 0 end)::float

else 0

end as share\_men1

from client\_info as c

left join city\_info on c.id\_city =city\_info.id\_city

group by name\_city

order by name\_city

**Задание 2.3**

Определите средний возраст по тем клиентам, которые ни разу ничего не заплатили.

with

non\_payment\_clients as -- ко всем клиентам подтягиваю суммы оплат и оставляю тех, где нет оплат

(

select ci.id\_client

, amount

, age

from client\_info as ci

left join (select id\_client

, sum(amt\_payment) as amount

from payments\_test

group by id\_client) as cp

on ci.id\_client=cp.id\_client

where amount is null

)

select avg(age) as avg\_age

from non\_payment\_clients

**Задание 2.4**

Для каждого федерального округа выделите первые три платежа.

with

all\_payment\_info as -- собираю всю информацию в платежи

(

select \*

from payments\_test as p

left join client\_info as ci on p.id\_client = ci.id\_client

left join city\_info as cti on ci.id\_city = cti.id\_city

),

range\_table as -- ранжирую платежи по времени

(

select all\_payment\_info.\*

, row\_number() over (partition by name\_region order by time\_payment asc) as rn\_in\_region

from all\_payment\_info

)

select name\_region

, name\_city

, rn\_in\_region

, time\_payment

, amt\_payment

from range\_table

where rn\_in\_region <=3

**Задание 2.5**

Ограничьтесь клиентами из федеральных округов "Южный" и "Северный". Для каждого города рассчитайте, сколько в среднем времени проходит между платежами одного клиента.

with

all\_payment\_info as -- собираем все данные и считаем период от пред. покупки, отбираем округа: Север и Юг

(

select p.\*

, name\_city

, name\_region

, age(time\_payment, lag (time\_payment) over (partition by name\_city, p.id\_client order by time\_payment)) as period

from payments\_test as p

left join client\_info as ci on p.id\_client = ci.id\_client

left join city\_info as cti on ci.id\_city = cti.id\_city

where name\_region in('Север','Юг')

)

,

avg\_period\_by\_clients as -- находим средний период по каждому клиенту

(

select id\_client

, name\_city

, name\_region

, avg(period) as avg\_period\_by\_clients

from all\_payment\_info

group by 1,2,3

)

select name\_city

, avg(avg\_period\_by\_clients) as avg\_period\_by\_city -- находим средний период по городу

from avg\_period\_by\_clients

group by 1

СОЗДАНИЕ ТАБЛИЦ ДАННЫХ

-- Создание таблицы платежей - payments\_test

create table payments\_test

(

id\_client integer not null,

time\_payment TIMESTAMP,

amt\_payment INTEGER

);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (1,'2021-08-2 8:5:46',9759);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (1,'2021-06-21 22:45:30',1583);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (33,'2021-07-15 19:2:49',6421);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (22,'2021-08-18 6:56:6',2678);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (10,'2021-06-13 14:55:15',5464);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (8,'2021-05-17 17:25:58',5008);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (7,'2021-05-13 17:26:14',6330);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (14,'2021-05-20 20:17:33',2055);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (29,'2021-07-4 1:22:11',2046);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (10,'2021-07-27 7:56:15',4320);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (22,'2021-08-25 22:17:45',8044);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (28,'2021-06-5 9:54:4',9716);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (28,'2021-06-23 21:45:55',3936);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (19,'2021-05-13 1:56:40',1475);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (5,'2021-07-11 3:33:43',4530);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (28,'2021-06-29 12:31:49',1243);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (25,'2021-05-2 12:32:43',3422);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (31,'2021-06-16 22:47:9',2004);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (4,'2021-06-20 5:44:38',8771);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (34,'2021-05-3 17:58:53',7372);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (25,'2021-05-22 3:29:27',4854);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (25,'2021-08-3 12:3:5',6059);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (33,'2021-07-7 23:47:31',4558);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (32,'2021-05-20 4:10:20',1971);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (39,'2021-05-27 7:46:31',2173);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (40,'2021-08-30 10:12:21',3152);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (24,'2021-06-20 17:4:42',2867);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (6,'2021-08-10 10:51:16',2354);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (19,'2021-08-28 6:37:57',7272);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (30,'2021-06-28 19:9:47',9962);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (22,'2021-06-9 2:54:17',4427);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (25,'2021-06-18 12:7:7',8482);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (3,'2021-06-24 22:25:47',5084);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (22,'2021-06-22 5:48:23',7358);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (7,'2021-07-5 21:53:45',9922);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (14,'2021-08-10 9:22:26',2950);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (6,'2021-07-12 7:37:34',4792);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (7,'2021-05-11 8:59:5',6757);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (26,'2021-05-28 22:49:27',4675);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (14,'2021-05-25 18:59:42',3116);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (4,'2021-07-12 20:59:21',6157);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (29,'2021-06-30 1:18:39',5178);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (26,'2021-07-3 2:53:35',4925);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (18,'2021-08-3 18:34:10',3616);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (34,'2021-05-21 4:1:18',6650);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (39,'2021-08-16 1:52:24',4554);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (17,'2021-08-16 6:30:30',8101);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (39,'2021-06-27 5:6:17',4601);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (30,'2021-08-22 23:55:57',3498);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (20,'2021-07-10 19:43:5',8173);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (3,'2021-05-26 9:1:1',5137);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (27,'2021-06-13 20:20:43',9710);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (15,'2021-05-27 23:35:49',9836);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (39,'2021-07-9 4:58:58',7717);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (30,'2021-05-23 9:32:58',2492);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (13,'2021-07-26 1:34:47',3793);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (10,'2021-06-29 21:39:2',7315);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (22,'2021-07-26 21:15:25',7019);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (9,'2021-08-1 7:54:49',2931);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (4,'2021-06-12 8:20:15',3081);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (5,'2021-08-9 16:16:31',1748);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (29,'2021-05-3 18:46:18',7081);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (36,'2021-05-25 10:6:47',7068);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (31,'2021-08-30 14:36:30',8340);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (19,'2021-07-10 2:27:10',2750);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (5,'2021-05-15 9:16:12',1298);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (28,'2021-05-22 15:54:2',2120);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (25,'2021-07-22 13:49:51',9550);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (36,'2021-06-22 10:21:26',6271);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (8,'2021-06-6 7:44:26',7449);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (8,'2021-07-13 9:52:2',9321);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (6,'2021-07-8 12:51:41',5438);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (1,'2021-05-14 15:16:38',6503);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (12,'2021-05-1 22:34:43',4874);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (34,'2021-05-22 16:29:20',8012);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (40,'2021-07-29 21:52:22',3529);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (15,'2021-05-3 10:17:2',8533);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (9,'2021-08-18 7:45:9',5339);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (4,'2021-07-9 8:31:30',7303);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (26,'2021-05-20 18:45:2',2834);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (40,'2021-07-25 5:4:6',9332);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (30,'2021-05-28 17:57:28',4384);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (38,'2021-05-20 18:33:14',5239);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (37,'2021-08-6 1:27:15',2181);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (35,'2021-06-13 23:57:18',2471);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (2,'2021-07-9 12:56:39',7786);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (39,'2021-08-20 20:35:51',2801);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (2,'2021-08-4 20:21:47',9258);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (21,'2021-07-9 2:43:48',7056);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (3,'2021-07-26 15:10:43',2805);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (12,'2021-07-23 14:13:3',7893);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (39,'2021-06-18 21:56:18',3030);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (35,'2021-07-25 10:21:11',2857);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (30,'2021-05-8 15:5:7',4869);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (22,'2021-08-21 18:24:43',9843);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (10,'2021-05-17 11:21:21',3984);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (33,'2021-08-5 9:58:48',3826);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (12,'2021-06-6 1:29:29',4828);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (3,'2021-06-14 16:52:36',9033);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (26,'2021-08-14 6:43:33',2311);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (36,'2021-06-15 1:7:49',7726);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (39,'2021-08-4 11:48:8',7415);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (36,'2021-05-12 7:26:16',9312);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (10,'2021-05-26 21:13:55',9088);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (1,'2021-05-30 11:24:51',3163);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (9,'2021-06-24 7:53:28',6969);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (7,'2021-05-16 9:56:55',2729);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (18,'2021-07-14 19:48:22',9733);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (4,'2021-08-13 9:25:36',6291);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (29,'2021-05-12 13:56:46',4460);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (31,'2021-07-7 3:43:2',8475);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (6,'2021-06-28 22:49:22',4368);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (40,'2021-07-30 23:54:28',6402);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (16,'2021-06-16 21:40:15',3450);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (10,'2021-05-11 6:36:54',6487);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (11,'2021-06-29 16:27:40',7503);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (21,'2021-07-27 14:51:15',5391);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (16,'2021-06-11 21:9:7',1179);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (32,'2021-08-1 20:15:55',3977);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (10,'2021-07-9 1:33:14',1293);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (3,'2021-05-15 3:49:37',7091);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (32,'2021-05-29 10:42:49',1951);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (26,'2021-07-25 10:43:17',8714);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (3,'2021-07-29 10:51:41',8324);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (22,'2021-05-5 16:21:48',8555);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (30,'2021-07-6 1:10:47',2678);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (6,'2021-07-15 12:33:36',6158);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (8,'2021-07-28 5:37:36',1798);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (13,'2021-05-11 9:31:7',6127);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (19,'2021-08-17 20:12:15',6142);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (7,'2021-06-15 16:49:51',5834);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (26,'2021-05-16 3:9:33',4777);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (30,'2021-08-21 10:9:55',4832);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (20,'2021-08-17 6:23:55',4525);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (9,'2021-05-27 1:36:13',1147);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (39,'2021-06-9 19:28:7',1677);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (31,'2021-05-3 15:33:20',3662);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (2,'2021-06-24 18:13:15',8531);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (34,'2021-08-25 11:17:35',7185);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (4,'2021-05-8 18:49:36',6055);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (26,'2021-08-1 1:15:50',6659);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (16,'2021-07-1 9:44:42',1869);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (20,'2021-06-2 18:4:42',9223);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (12,'2021-08-8 5:32:50',3764);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (28,'2021-07-21 6:43:18',8465);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (22,'2021-06-4 11:40:37',8417);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (32,'2021-05-23 6:39:6',2295);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (11,'2021-08-8 21:44:43',1091);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (35,'2021-07-30 14:59:18',8456);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (25,'2021-06-22 19:2:42',6587);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (8,'2021-08-4 15:18:19',2040);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (25,'2021-08-11 20:9:38',4500);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (19,'2021-06-20 7:47:57',7033);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (34,'2021-06-4 2:35:25',8068);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (30,'2021-05-20 13:46:2',6662);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (12,'2021-05-21 1:34:1',7211);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (35,'2021-05-10 14:59:1',5459);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (12,'2021-08-17 20:5:2',5551);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (35,'2021-07-9 13:8:25',4271);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (22,'2021-05-10 13:1:8',5579);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (29,'2021-07-15 2:37:2',1832);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (40,'2021-06-7 19:13:42',2294);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (1,'2021-06-26 5:14:1',4089);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (2,'2021-07-6 22:40:13',7558);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (21,'2021-08-5 20:38:18',9781);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (15,'2021-05-13 4:44:40',7863);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (28,'2021-08-7 23:23:54',2741);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (17,'2021-08-3 20:18:12',3185);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (2,'2021-06-16 22:25:4',9639);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (21,'2021-05-4 17:8:12',8087);

INSERT INTO payments\_test (id\_client, time\_payment, amt\_payment) VALUES (35,'2021-07-5 17:30:48',4840);

-- Создание таблицы клиентов - client\_info

create table client\_info

(

id\_client integer not null,

gender varchar,

age integer not null,

id\_city integer not null

);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (1, 'men', 62, 21);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (2, 'woman', 19, 19);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (3, 'woman', 65, 5);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (4, 'woman', 31, 15);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (5, 'woman', 36, 15);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (6, 'men', 22, 17);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (7, 'men', 44, 1);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (8, 'woman', 26, 6);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (9, 'men', 62, 2);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (10, 'men', 33, 1);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (11, 'woman', 57, 20);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (12, 'men', 21, 12);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (13, 'woman', 65, 4);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (14, 'woman', 32, 10);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (15, 'men', 48, 15);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (16, 'woman', 31, 16);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (17, 'men', 56, 10);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (18, 'woman', 42, 12);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (19, 'men', 41, 10);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (20, 'men', 61, 13);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (21, 'woman', 46, 1);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (22, 'woman', 43, 18);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (23, 'men', 59, 13);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (24, 'woman', 63, 17);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (25, 'men', 22, 16);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (26, 'woman', 38, 1);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (27, 'men', 20, 7);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (28, 'men', 23, 7);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (29, 'woman', 46, 15);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (30, 'woman', 65, 13);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (31, 'men', 47, 18);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (32, 'woman', 60, 12);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (33, 'men', 56, 20);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (34, 'woman', 28, 4);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (35, 'woman', 28, 13);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (36, 'men', 39, 16);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (37, 'woman', 35, 21);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (38, 'men', 33, 8);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (39, 'men', 43, 7);

INSERT INTO client\_info (id\_client, gender, age, id\_city) VALUES (40, 'woman', 53, 19);

-- Создание таблицы c инфо по городам - city\_info

create table city\_info

(

id\_city integer not null,

name\_city varchar,

name\_region varchar

);

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (1, 'Москва', 'Центр');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (2, 'Москва (область)', 'Центр');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (3, 'Санкт-Петербург', 'Север');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (4, 'Екатеринбург', 'Урал');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (5, 'Казань', 'Поволжье');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (6, 'Нижний Новгород', 'Поволжье');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (7, 'Самара', 'Поволжье');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (8, 'Челябинск', 'Урал');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (9, 'Краснодар', 'Юг');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (10, 'Сочи', 'Юг');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (11, 'Красноярск', 'Сибирь');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (12, 'Хабаровск', 'Дальний Восток');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (13, 'Сахалинск', 'Дальний Восток');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (14, 'Владимир', 'Центр');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (15, 'Кострома', 'Центр');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (16, 'Новосибирск', 'Сибирь');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (17, 'Омск', 'Сибирь');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (18, 'Томск', 'Сибирь');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (19, 'Уфа', 'Урал');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (20, 'Пермь', 'Урал');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (21, 'Мурманск', 'Север');

INSERT INTO city\_info (id\_city, name\_city, name\_region) VALUES (22, 'Архангельск', 'Север');