**--Задание 1:**

select m.\*,

avg(payment\_sum) over (order by purchase\_month rows between 2 preceding and current row) as ma3,

avg(payment\_sum) over (order by purchase\_month rows between 6 preceding and current row) as ma7,

avg(payment\_sum) over (order by purchase\_month rows between 2 preceding and 2 following) as ma5\_2side

from (

select sum (amt\_payment) payment\_sum, date\_trunc('month', date\_purchase) as purchase\_month

from skycinema.client\_sign\_up

group by purchase\_month

order by purchase\_month

) m

**--Задача 2:**

--CREATE TABLE late\_collection\_vitrina AS

SELECT id\_client,

name\_city,

CASE

WHEN gender = 'M' THEN 1

ELSE 0

END AS nflag\_gender,

age,

first\_time,

CASE

WHEN cellphone IS NULL THEN 0

ELSE 1

END AS nflag\_cellphone,

is\_active,

cl\_segm,

amt\_loan,

CAST(date\_loan AS date) AS loan\_date,

credit\_type,

SUM(amt\_loan) OVER city AS sum\_city,

(CAST(amt\_loan AS DEC(9)) / SUM(amt\_loan) OVER city) \* 100 AS loan\_city\_percent,

SUM(amt\_loan) over type as sum\_type,

(CAST(amt\_loan AS DEC(9)) / SUM(amt\_loan) OVER type) \* 100 AS loan\_type\_percent,

SUM(amt\_loan) over city\_and\_type as sum\_city\_type,

(CAST(amt\_loan AS DEC(9)) / SUM(amt\_loan) OVER city\_and\_type) \* 100 AS loan\_city\_and\_type\_percent,

COUNT(\*) OVER city AS count\_city,

COUNT(\*) OVER type AS count\_type,

COUNT(\*) OVER city\_and\_type AS count\_city\_and\_type

FROM skybank.late\_collection\_clients lcc

LEFT JOIN skybank.region\_dict r ON lcc.id\_city = r.id\_city

WINDOW city AS (PARTITION BY name\_city),

type AS (PARTITION BY credit\_type),

city\_and\_type AS (PARTITION BY name\_city, credit\_type)

ORDER BY lcc.id\_city, credit\_type