

Задание 1:

```
SELECT s.org_id,
       o.com_name as name,
       SUM(s.amount) AS PŸCŕPjPjP°,
       AVG(s.amount) AS PŸCŦPμPrPSPμPμ,
       COUNT( s.org_id) AS PльPsP»PëC#PμCŕC,PIPs
FROM custom.summary AS s
LEFT JOIN custom.org AS o ON s.org_id=o.org_id AND s.df=o.df
GROUP by s.org_id, o.com_name
HAVING COUNT(s.org_id) > 20
ORDER by s.org_id;
```

Задание 2:

```
create view second_view as
select agreement_num,
       min (case operation_type when 'D' then Operation_Id end) as Operation_Id_debet,
       min (case operation_type when 'D' then Amount end) as Amount_debet,
       min (case operation_type when 'C' then Operation_Id end) as Operation_Id_credit,
       min (case operation_type when 'C' then Amount end) as Amount_credit
from (select account_id, operation_date, agreement_num, Operation_Id, operation_type, amount,
row_number() over(partition by agreement_num, operation_type order by Operation_Id) as rn
from custom.operations
group by agreement_num, rn
order by agreement_num nulls first, rn;
```

```
select
distinct
operations.account_id as "account id",
operations.operation_date as "operation date",
second_view.agreement_num as "agreement num",
second_view.Operation_Id_debet as "debet operation id",
second_view.Amount_debet as "debet amount",
second_view.Operation_Id_credit as "credit operation id",
second_view.Amount_credit as "credit amount"
from second_view
left outer join operations on second_view.Operation_Id_credit = operations.Operation_Id or
second_view.Operation_Id_debet = operations.Operation_Id
order by second_view.agreement_num nulls first
```

Задание 3:

```
create view custom.dop as
select *
from custom.org
where df = '2022-01-01';
```

```
WITH recursive org_new as (
select  org_id,
        parent_id,
        com_name,
        com_name || " || ' ' as tree_name,
        0 as lvl
from custom.dop
WHERE parent_id IS null
UNION all
select  d.org_id,
        d.parent_id,
        d.com_name,
        o.tree_name || ':' || d.com_name as tree_name,
```

```
        lvl + 1
    from custom.dop d, org_new o
    where d.parent_id = o.org_id
)
select    o.org_id as id,
          o.parent_id as "parent id",
          o.com_name as "field name",
          o.tree_name as "tree name",
          lvl
    from org_new o
    LEFT join custom.dop d on o.parent_id = d.org_id
    ORDER by o.lvl, o.parent_id, tree_name
```