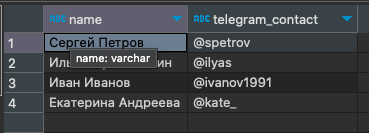
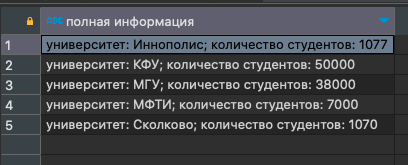
a.

select name,telegram\_contact from student where city='Казань' or city ='Москва' order by name desc



b.

select 'университет: ' || name || '; количество студентов: '::varchar || size as "полная информация" from college order by "полная информация" asc



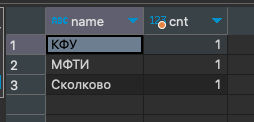
c.

select c.name, count(s.id) as cnt from college c left join student s on (c.id=s.college\_id)

where c.id in (10,30,50)

group by c.name

order by cnt, c.name asc



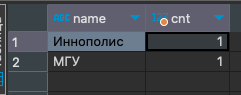
d.

select c.name, count(s.id) as cnt from college c left join student s on (c.id=s.college\_id)

where c.id not in (10,30,50)

group by c.name

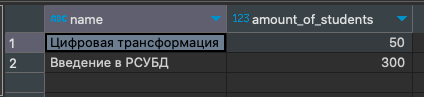
order by cnt, c.name asc



e.

select name, amount\_of\_students from course where amount\_of\_students between 27 and 310

order by name desc, amount\_of\_students desc



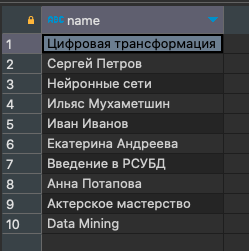
f.

select name from student

union all

select name from course

order by name desc



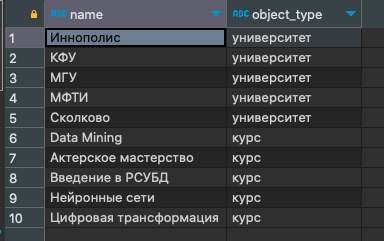
g.

select name,'университет' as object\_type from college

union all

select name,'курс' as object\_type from course

order by object\_type desc, name asc



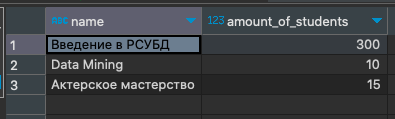
h.

select name, amount\_of\_students

from course

order by case when amount\_of\_students = 300 then 1 else 0 end desc, amount\_of\_students asc

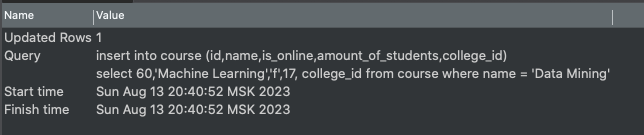
limit 3

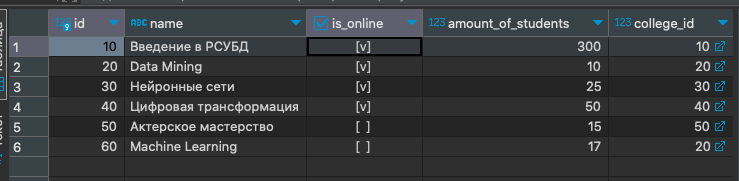


i.

insert into course (id,name,is\_online,amount\_of\_students,college\_id)

select 60,'Machine Learning','f',17, college\_id from course where name = 'Data Mining'





j.

(select id from course

except select id from student\_on\_course

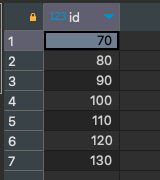
)

union

(select id from student\_on\_course

except select id from course )

order by id



k.

select s.name as student\_name, c.name as course\_name, col.name as student\_college, soc.student\_rating as student\_rating

from student s

left join student\_on\_course soc on s.id=soc.student\_id

left join course c on soc.course\_id = c.id

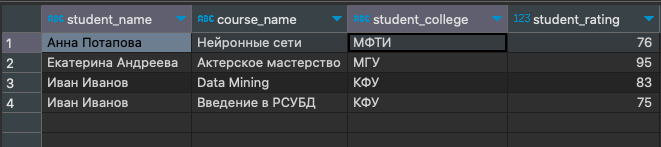
left join college col on s.college\_id = col.id

where

soc.student\_rating > 50

and col.size > 5000

order by student\_name asc, course\_name asc

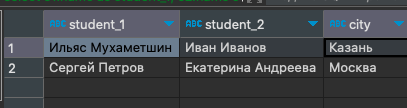


l.

select s1.name as student\_1, s2.name as student\_2, s1.city

from student s1

inner join student s2 on s1.city = s2.city and s1.id > s2.id



m.

select "оценка",count(\*) as "количество студентов" from (

select

case when soc.student\_rating < 30 then 'неудовлетворительно'

when soc.student\_rating >= 30 and soc.student\_rating < 60 then 'удовлетворительно'

when soc.student\_rating >= 60 and soc.student\_rating < 85 then 'хорошо'

else 'отлично' end as "оценка", s.name

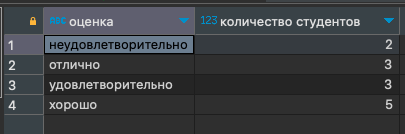
from student s

left join student\_on\_course soc on s.id=soc.student\_id

) as t

group by "оценка"

order by "оценка" asc



n.

select "курс","оценка",count(\*) as "количество студентов" from (

select

case when soc.student\_rating < 30 then 'неудовлетворительно'

when soc.student\_rating >= 30 and soc.student\_rating < 60 then 'удовлетворительно'

when soc.student\_rating >= 60 and soc.student\_rating < 85 then 'хорошо'

else 'отлично' end as "оценка", c.name as "курс", s.name

from student s

left join student\_on\_course soc on s.id=soc.student\_id

left join course c on soc.course\_id = c.id

) as t

group by "курс","оценка"

order by "курс" asc,"оценка" asc

