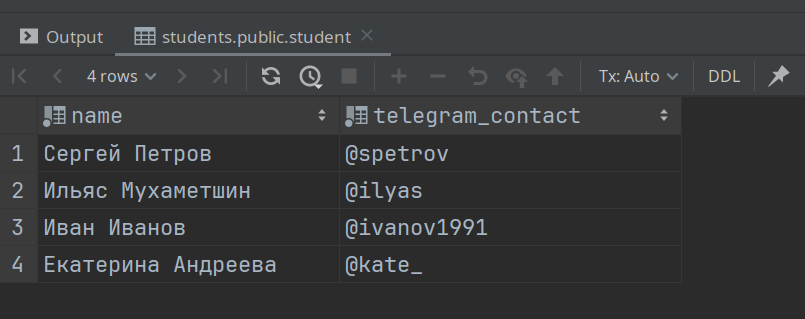
**Лабораторная работа по теме “Язык запросов SQL”**

**a.**

select name, telegram\_contact from student

where city in ('Казань', 'Москва')

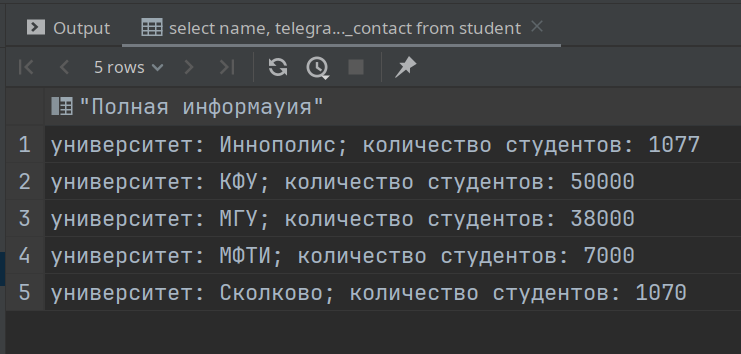
order by name desc;



**b.**

select 'университет: ' || name || '; количество студентов: ' || size as "Полная информация" from college

order by name;

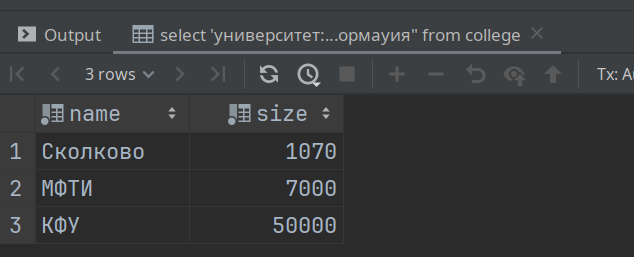


**c.**

select name, size from college

where id in (10, 30, 50)

order by size, name

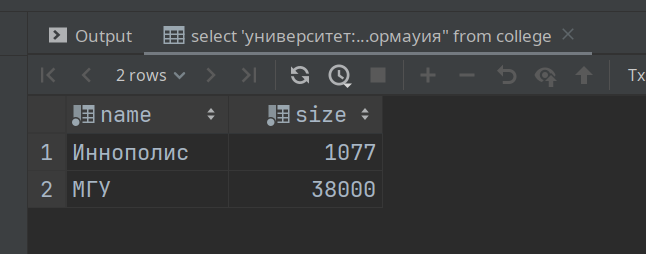


**d.**

select name, size from college

where id not in (10, 30, 50)

order by size, name

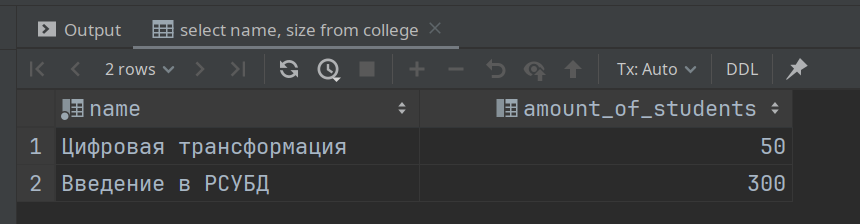


**e.**

select name, amount\_of\_students from course

where amount\_of\_students between 27 and 310

order by name desc, amount\_of\_students desc



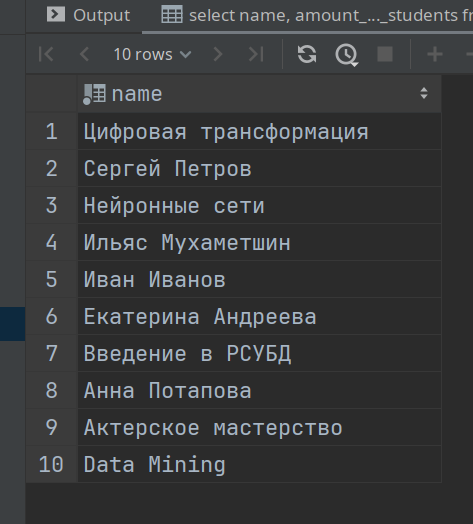
**f.**

select name from course

union

select name from student

order by name desc



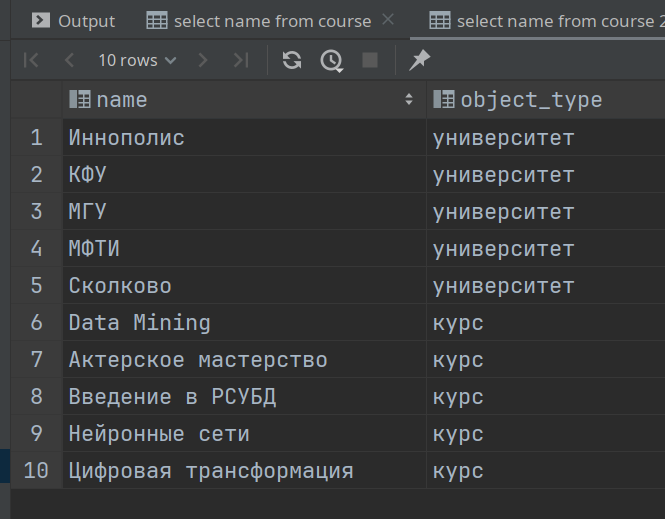
**g.**

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

union

select name, 'курс' from course

order by object\_type desc, name



**h.**

select name, amount\_of\_students from course

order by

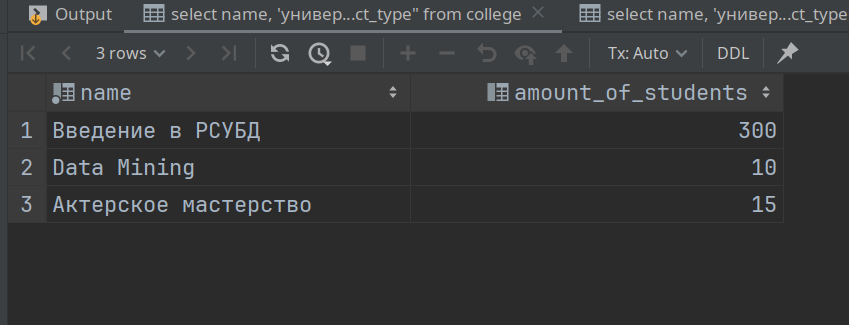
CASE

WHEN amount\_of\_students = 300 THEN 0

ELSE amount\_of\_students

END

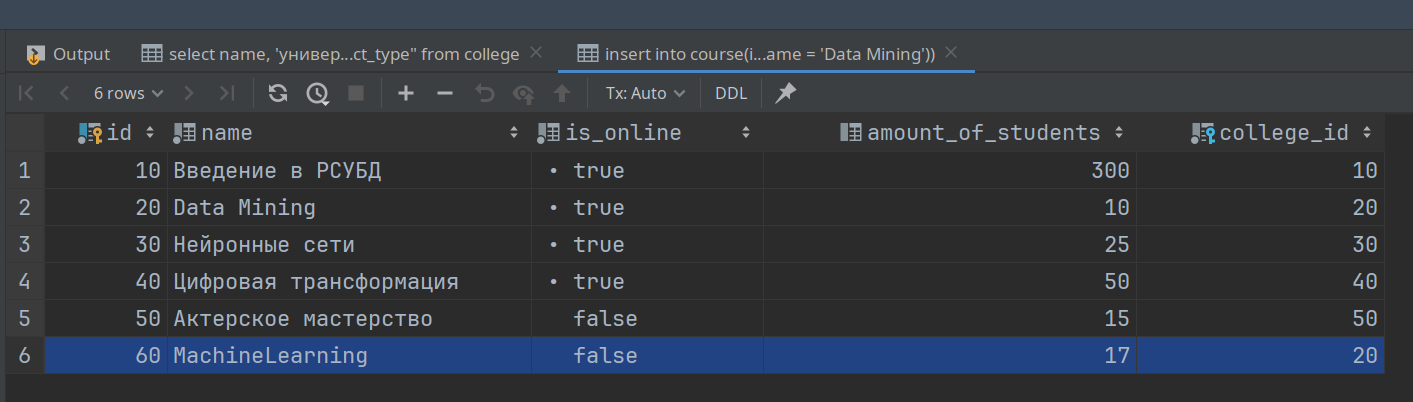
limit 3



**i.**

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

values (60, 'MachineLearning', 17, (select college\_id from course where name = 'Data Mining'))



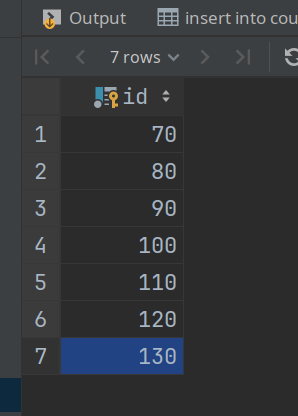
**j.**

(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 student.name as "student\_name", course.name as "course\_name", college.name as "student\_college", student\_on\_course.student\_rating as "student\_rating" from student\_on\_course

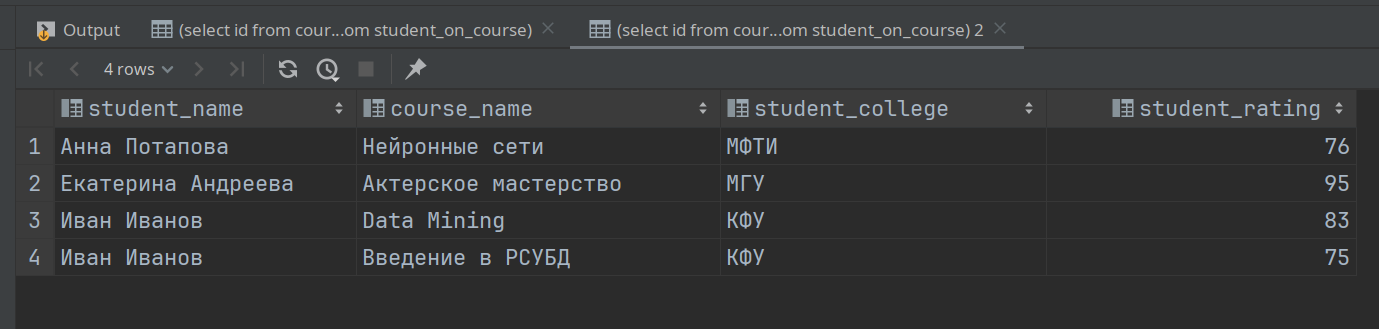
join student on student\_on\_course.student\_id = student.id

join college on student.college\_id = college.id

join course on student\_on\_course.course\_id = course.id

where student\_rating > 50 and college.size > 5000

order by student\_name, course\_name



**l.**

select names[2] as "student\_1", names[1] as "student\_2", city from (

select array\_agg(name) as names, city

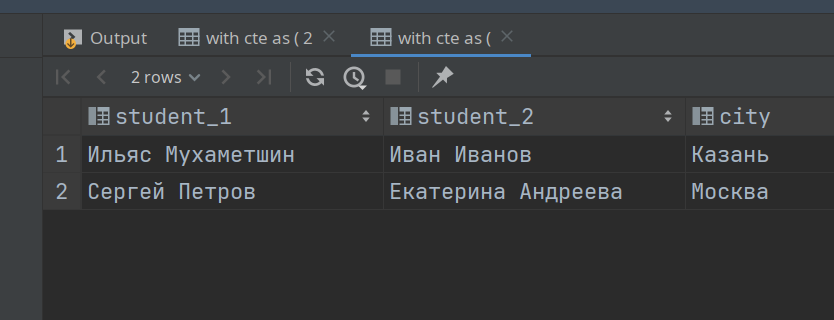
from student

group by city

)\_

where names[2] is not null and names[1] is not null

order by student\_1



**m.**

select

case

when student\_rating < 30 then 'неудовлетворительно'

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

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

else 'отлично'

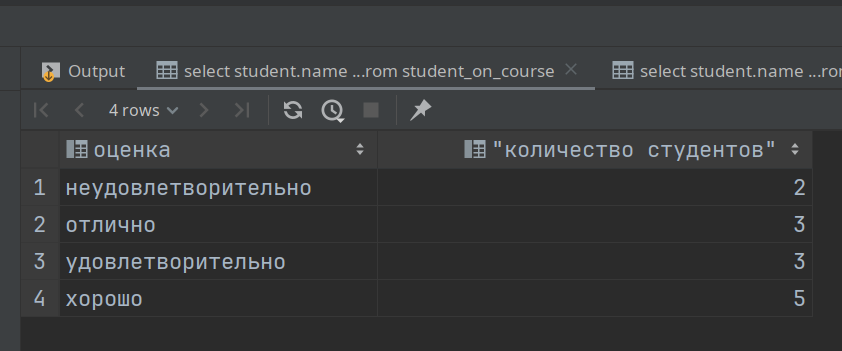
end as "оценка",

count(\*) as "количество студентов"

from student\_on\_course

group by "оценка"

order by "количество студентов"



**n.**

select

course.name as "курс",

case

when student\_rating < 30 then 'неудовлетворительно'

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

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

else 'отлично'

end as "оценка",

count(\*) as "количество студентов"

from student\_on\_course

join course on student\_on\_course.course\_id = course.id

group by "курс", "оценка"

order by "курс", "количество студентов"

