**a)** - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

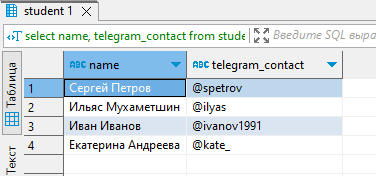
**SELECT** **name**, telegram\_contact

**FROM** student

**WHERE** city = 'Москва'

**OR** city = 'Казань'

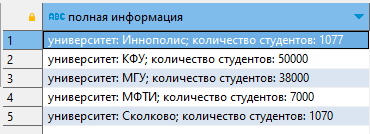
**ORDER** **BY** name **DESC**



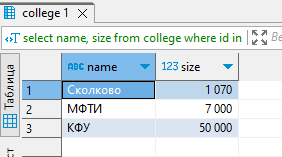
**b)** - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**SELECT** ('университет: ' || **name** || '; количество студентов: ' || **size**)

**AS** "полная информация"

 **FROM** college

**ORDER** **BY** "полная информация"

**c)** - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

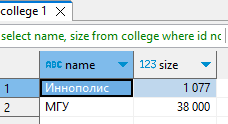
**SELECT** **name**, **size**

**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**

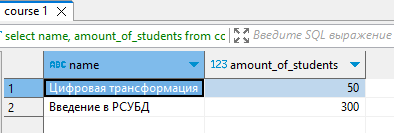
e) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

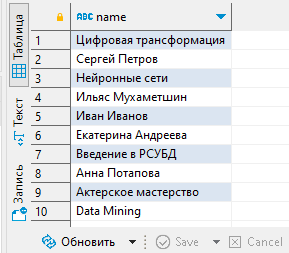
**SELECT** **name**, amount\_of\_students

**FROM** course

**WHERE** is\_online

**AND** amount\_of\_students **BETWEEN** 27 **AND** 310

**ORDER** **BY** **name** **DESC**, amount\_of\_students **DESC**

f) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**SELECT** **name**

**FROM** course

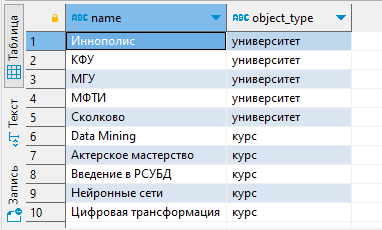
**UNION**

**SELECT** **name**

**FROM** student

**ORDER** **BY** **name** **DESC**

**g) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -**

**SELECT** **name**,

'университет' **AS** object\_type

**FROM** college

**UNION ALL**

**SELECT** **name**,

'курс' **AS** object\_type

**FROM** course

**ORDER** **BY** object\_type **DESC**, **name**

**h)- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -**

**SELECT** **name**, amount\_of\_students

**FROM** course

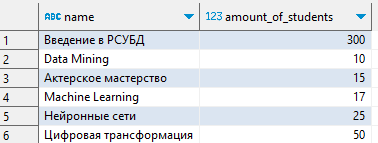
**ORDER** **BY**

**CASE**

**WHEN** amount\_of\_students = 300 **THEN** 1

**ELSE** amount\_of\_students

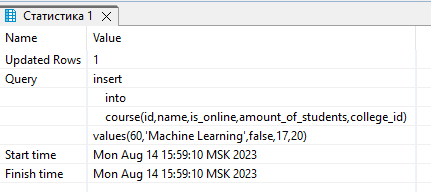
**END**



**i)- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -**

**INSERT** **INTO** course(id,**name**,is\_online,amount\_of\_students,college\_id)

**VALUES**(60,'Machine Learning',**false**,17,20)



**j)- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -**

**SELECT** id

**FROM** ((**SELECT** id **FROM** course

**EXCEPT**

**SELECT** course\_id **FROM** student\_on\_course)

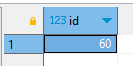
**UNION**

(**SELECT** course\_id **FROM** student\_on\_course

**EXCEPT**

**SELECT** id **FROM** course)) **AS** symmetryc\_difference

**ORDER BY** 1



**k)- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -**

**SELECT** student.**name** **AS** student\_name,

course.**name** **AS** course\_name,

college.**name** **AS** college\_name,

student\_on\_course.student\_rating

**FROM** college **INNER JOIN** student

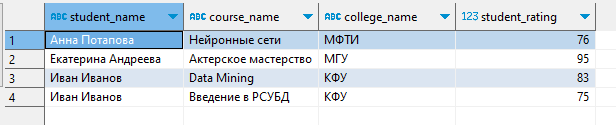
**ON** college.id = student.college\_id **INNER JOIN** student\_on\_course

**ON** student.id = student\_on\_course.student\_id **INNER JOIN** course

**ON** student\_on\_course.course\_id = course.id

**WHERE** student\_on\_course.student\_rating > 50 **AND** college.**size** > 5000

**ORDER BY** 1, 2



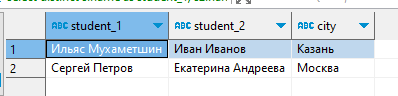
**l)- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -**

**SELECT DISTINCT** s.**name** **AS** student\_1, s2.**name** **AS** student\_2, s.city

**FROM** student s

**CROSS JOIN** student s2

**WHERE** s.**name** > s2.**name** **AND** s2.city = s.city



**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'

**WHEN** student\_rating >=85 **THEN** 'отлично'

**END**

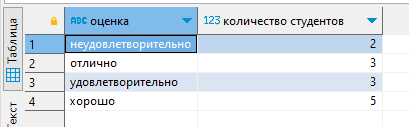
**AS** оценка, **count**(\*) **AS** "количество студентов"

**FROM** student\_on\_course

**GROUP** **BY** 1

**ORDER** **BY** 1

/\*не использовал JOIN в данном запросе, поскольку не было необходимости во второй таблице\*/



**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'

**WHEN** student\_rating >=85 **THEN** 'отлично'

**END**

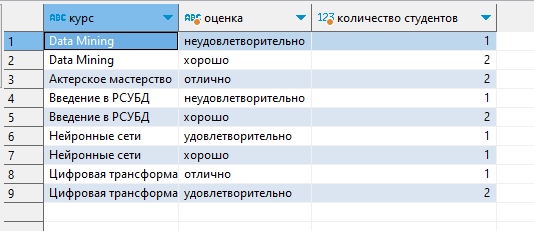
**AS** оценка, **count**(\*) **AS** "количество студентов"

**FROM** student\_on\_course **LEFT** **JOIN** course

**ON** student\_on\_course.course\_id = course.id

**GROUP** **BY** 1, 2

**ORDER** **BY** курс, оценка

****