به نام خدا

تكليف دوم پايگاه داده

حدیث غفوری ۹۸۲۵۴۱۳

سو ال ١

نوع متغير	داده
Char(3)	سه حرف مخفف شده ماه های میلادی
Numeric()	قیمت دلاری محصوالت که همگی دو رقم اعشار دارند.
Varchar(60)	نام و نام خانوادگی کاربر
Char(10)	کدملی کاربر
Float()	ذخیره قیمت لحظه ای ارز های دیجیتال دلار
Int()	تعداد باز دید یک ویدئو

سوال ۲

Create table data(

);

```
nationalCode char(10),

fullName varchar(60),

acronymsAD char(3),

viewsNumber int(),

dollarPrice float(2),

digitalCurrencies numberic(),

primary key (nationalCode),

foreign key (nationalCode) refrences users(social_number)
```

سوال ٣

a. بازنوییسی بدون استفاده از دستور uninque

WHERE (SELECT distinct name from student)

. طباز نوییس بدون استفاده از دستور like

WHERE first_name ~~ 'me%' AND last_name ~~ '%avi'

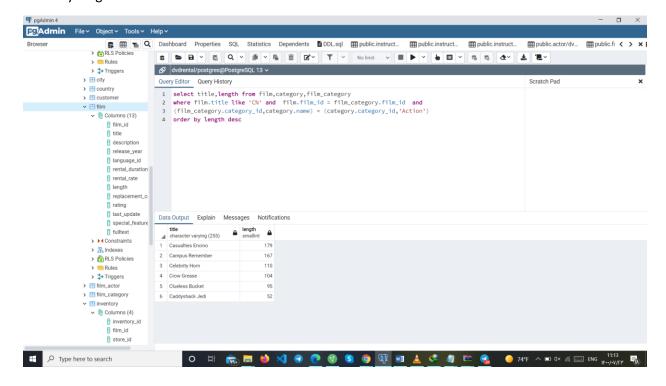
c. بازنوییس بدون اپراتور | |

SELECT concat(first_name,last_name);

سوال ۴

a.

select title,length from film,category,film_category
where film.title like 'C%' and film.film_id = film_category.film_id and
(film_category.category_id,category.name)=(category.category_id,'Action')
order by length desc



select title, name

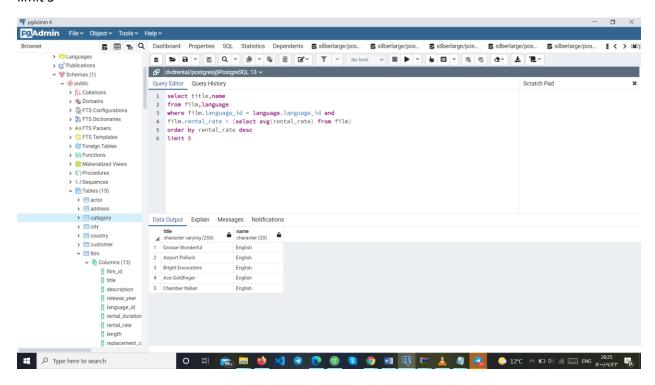
from film, language

where film.language_id = language.language_id and

film.rental_rate > (select avg(rental_rate) from film)

order by rental_rate desc

limit 5



select

address, sum (payment.amount) as least_size

from

address, payment, store, staff

where address_id= store.address_id and

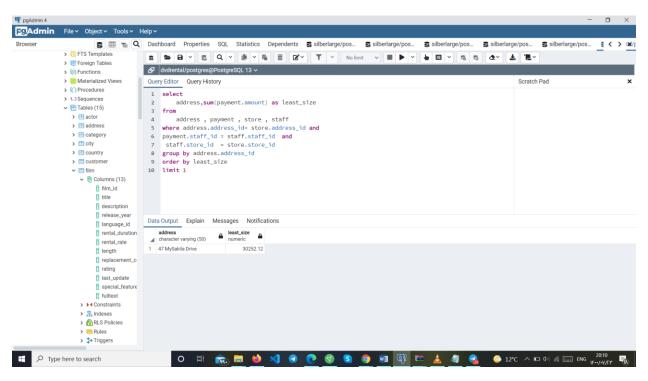
payment.staff_id = staff.staff_id and

staff.store_id = store.store_id

group by address.address_id

order by least_size

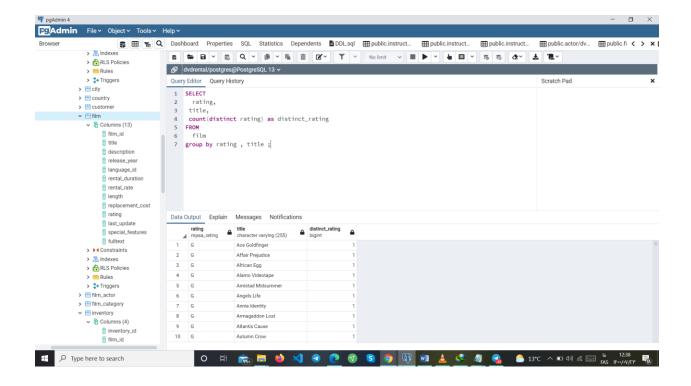
limit 1



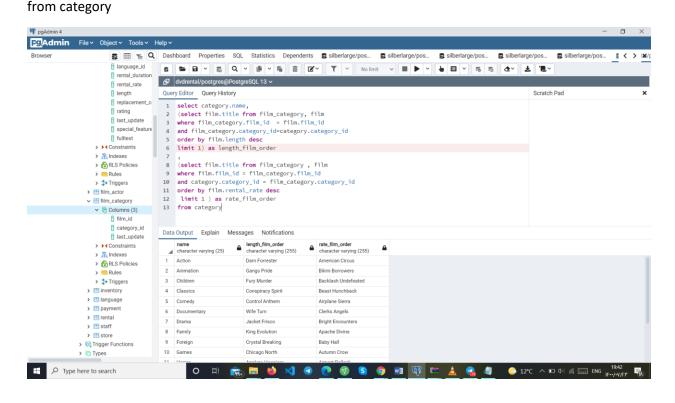
select rating, title, count (distinct rating) as distinct_rating

from film

group by rating, title;



```
select category.name,
select film.title from film_category, film)
where film_category.film_id = film.film_id
and film_category.category_id=category.category_id
order by film.length desc
limit 1) as length_film_order
,
select film.title from film_category , film)
where film.film_id = film_category.film_id
and category.category_id = film_category.category_id
order by film.rental_rate desc
limit 1 ) as rate_film_order
```

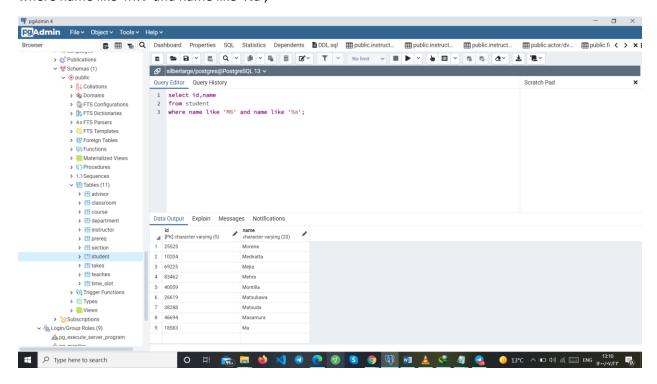


a.

select id, name

from student

where name like 'M%' and name like '%a';



b.

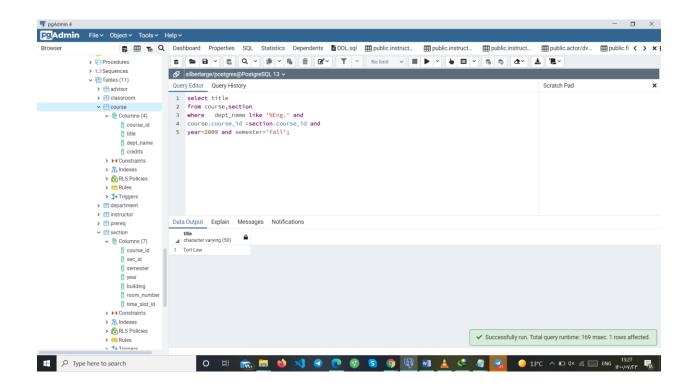
select title

from course, section

where dept_name like '%Eng.' and

course_id =section.course_id and

year=2009 and semester='Fall';



c.

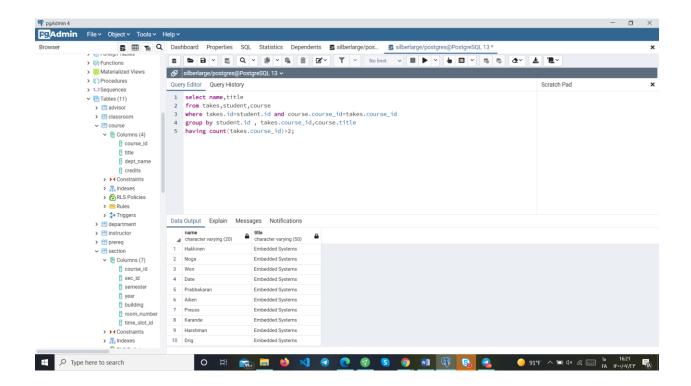
select name, title

from takes, student, course

where takes.id=student.id and course.course_id=takes.course_id

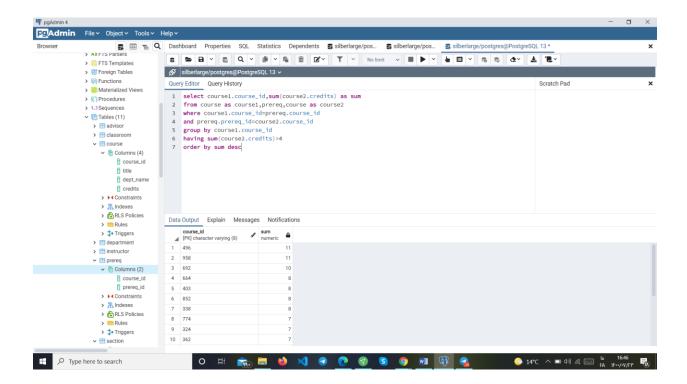
group by student.id , takes.course_id,course.title

having count(takes.course_id)>2;



d.

select course1.course_id,sum(course2.credits) as sum from course as course1,prereq,course as course2 where course1.course_id=prereq.course_id and prereq.prereq_id=course2.course_id group by course1.course_id having sum(course2.credits)>4 order by sum desc



e.

select distinct room_number

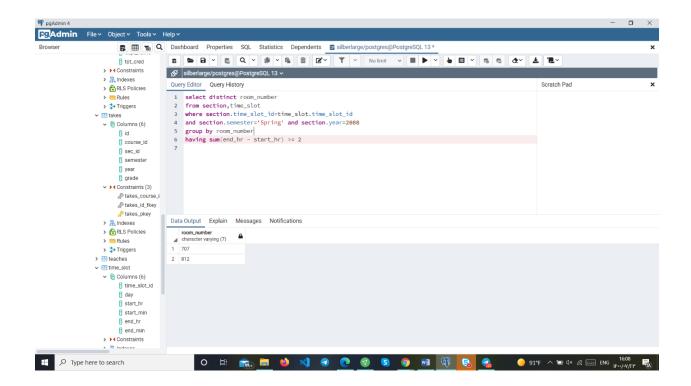
from section,time_slot

where section.time_slot_id=time_slot.time_slot_id

and section.semester='Spring' and section.year=2008

group by room_number

having sum(end_hr - start_hr) >= 2



f.

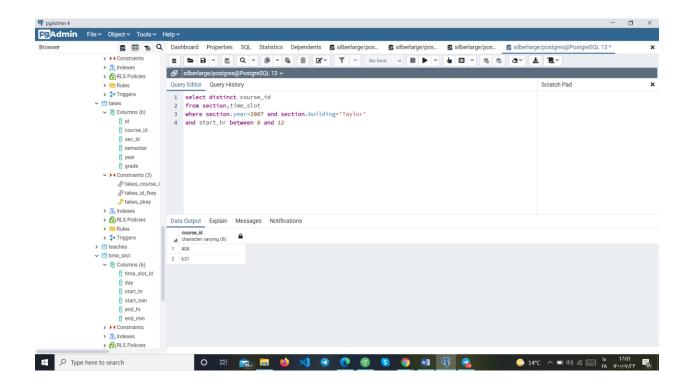
g.

select distinct course_id

from section,time_slot

where section.year=2007 and section.building='Taylor'

and start_hr between 8 and 12



h.

select name, sum(credits) as new_calculation

from course, takes, student

where (takes.grade like 'A%' OR takes.grade like 'B%') and

student.id = takes.id and

takes.course_id = course.course_id

group by student.name

