EECS 495-Database

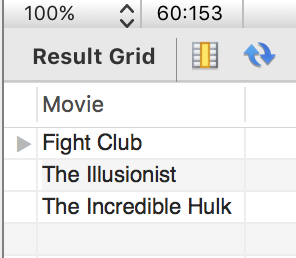
Project 1

Question 1:

select Movie

from appeared\_in

where STAR = 'Edward Norton';



Question 2:

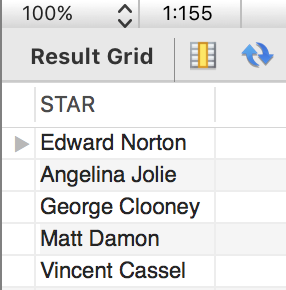
select distinct Star\_s.STAR

from appeared\_in Star\_s, appeared\_in Pitt

where Pitt.STAR = 'Brad Pitt'

and Pitt.Movie = Star\_s.Movie

and Star\_s.STAR != 'Brad Pitt';



Question 3:

select sum(distinct made\_money.HOW\_MUCH)

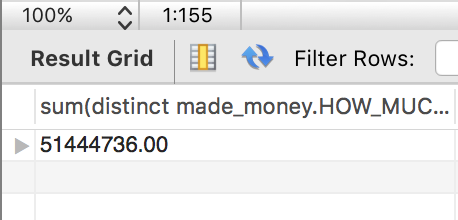
from made\_money, appeared\_in A\_Star, appeared\_in B\_Star

where A\_Star.STAR = 'Tom Hanks'

and B\_Star.STAR = 'Rita Wilson'

and A\_Star.Movie = B\_Star.Movie

and A\_Star.Movie = made\_money.Movie;



Question 4:

select distinct B.STAR

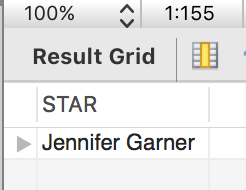
from divorced, in\_couple A, in\_couple B

where divorced.COUPLE\_NUM = A.COUPLE\_NUM

and A.STAR = 'Ben Affleck'

and A.COUPLE\_NUM = B.COUPLE\_NUM

and A.STAR != B.STAR;



Question 5:

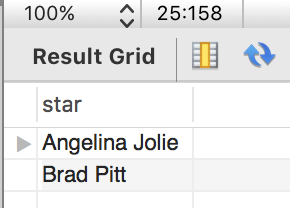
select A.star

from in\_couple as A

where A.couple\_num in(select d.couple\_num

from married as M, divorced as D

where m.day = d.day)



Question 6:

SET sql\_mode=(SELECT REPLACE(@@sql\_mode,'ONLY\_FULL\_GROUP\_BY',''));

select distinct A.star, B.star

from appeared\_in A, appeared\_in B, in\_couple C, in\_couple D, married

where A.movie=B.movie

and A.star<>B.star

and C.star<>D.star

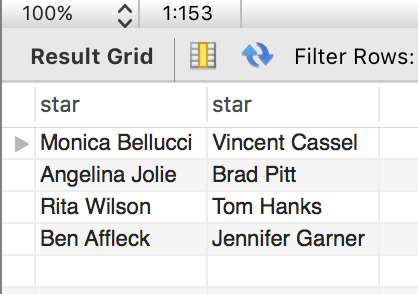
and C.couple\_num = D.couple\_num

and A.star = C.star

and B.star = D.star

group by C.couple\_num

having(select C.couple\_num in (select couple\_num from married));



Question 7:

select STAR

from (select STAR, count(Movie) as count

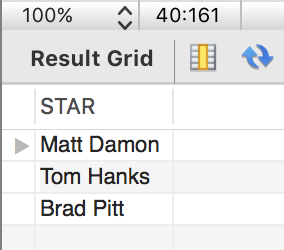
from appeared\_in

group by STAR order by count desc) A\_STEP

where A\_STEP.count >= ALL ( select count(Movie) as count

from appeared\_in

group by STAR order by count desc);



Question 8:

SET sql\_mode=(SELECT REPLACE(@@sql\_mode,'ONLY\_FULL\_GROUP\_BY',''));

select A.STAR,B.STAR

from (select \*

from in\_couple natural join married

group by couple\_num)A, in\_couple B

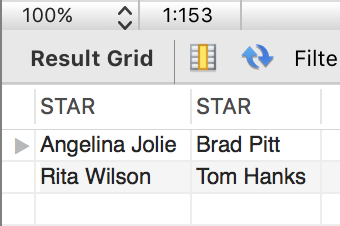
where A.couple\_num = B.couple\_num

and A.STAR<>B.STAR

group by A.STAR

having count(A.STAR)>1

and count(B.STAR)>1;



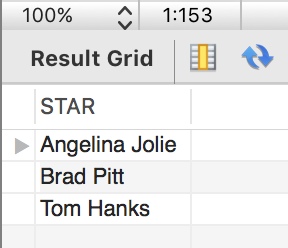
Question 9:

select STAR

from (in\_couple natural join divorced)

group by STAR

having count(STAR)>1



Question 10:

select A.STAR

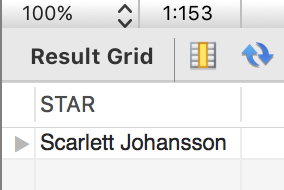
from (select STAR , avg(HOW\_MUCH) as avgmoney

from made\_money natural join appeared\_in

group by STAR)A

order by A.avgmoney desc

limit 1



Question 11 (extra credit):

SET sql\_mode=(SELECT REPLACE(@@sql\_mode,'ONLY\_FULL\_GROUP\_BY',''));

select A\_STAR, B\_STAR

from

(select A\_STAR, B\_STAR, couplenum, max(average)

from

(select A\_STAR, B\_STAR, couplenum, avg(HOW\_MUCH) as average

from

(select \*

from

(select couplenum, STAR as A\_STAR, B\_STAR, DAY as finalday, firstday, Movie

from

(select couple\_num as couplenum, A\_STAR as STAR, B\_STAR, firstday, DAY

from

(select A.couple\_num as couple\_num, A.star as A\_STAR, B.star as B\_STAR, A.day as firstday

from (select \*

from in\_couple natural join married

group by couple\_num)A, in\_couple B

where A.couple\_num = B.couple\_num

and A.star<>B.star)q natural join divorced)w

natural join appeared\_in)e natural join made\_money

where day\_opened<finalday

and day\_opened>firstday

union

select Movie, couplenum, A\_STAR, B\_STAR, finalday, firstday, HOW\_MUCH, day\_opened

from

(select couplenum, STAR as B\_STAR, A\_STAR, DAY as finalday, firstday, Movie

from

(select couple\_num as couplenum, A\_STAR, B\_STAR as STAR, firstday, DAY

from

(select A.couple\_num as couple\_num, A.star as A\_STAR, B.star as B\_STAR, A.day as firstday

from (select \*

from in\_couple natural join married

group by couple\_num)A, in\_couple B

where A.couple\_num = B.couple\_num

and A.star<>B.star)q natural join divorced)w

natural join appeared\_in)e natural join made\_money

where day\_opened<finalday

and day\_opened>firstday)r

group by couplenum

order by avg(HOW\_MUCH) desc)t)y;

