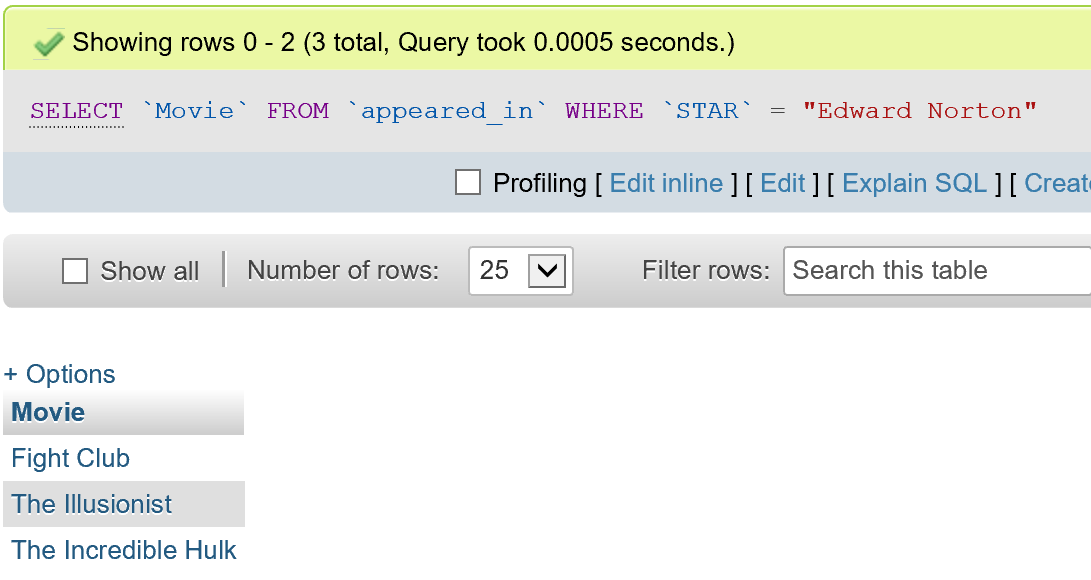
**Proj1 finished by Xin TONG**

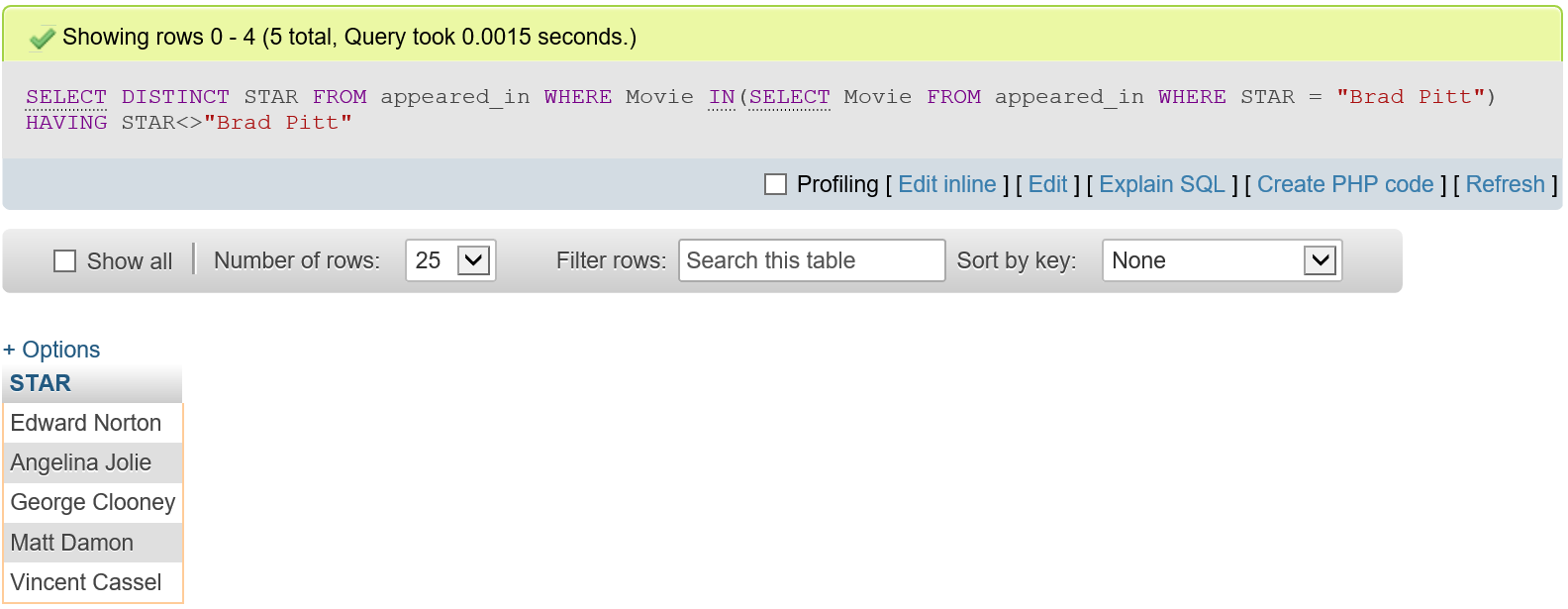
**1.What movies has ‘Edward Norton' appeared in?**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) `Movie` FROM `appeared\_in` WHERE `STAR` = "Edward Norton"



**2.Who has starred along with 'Brad Pitt' in the some movie?**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) DISTINCT STAR FROM appeared\_in WHERE Movie [IN](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#function_in)([SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) Movie FROM appeared\_in WHERE STAR = "Brad Pitt") HAVING STAR<>"Brad Pitt"



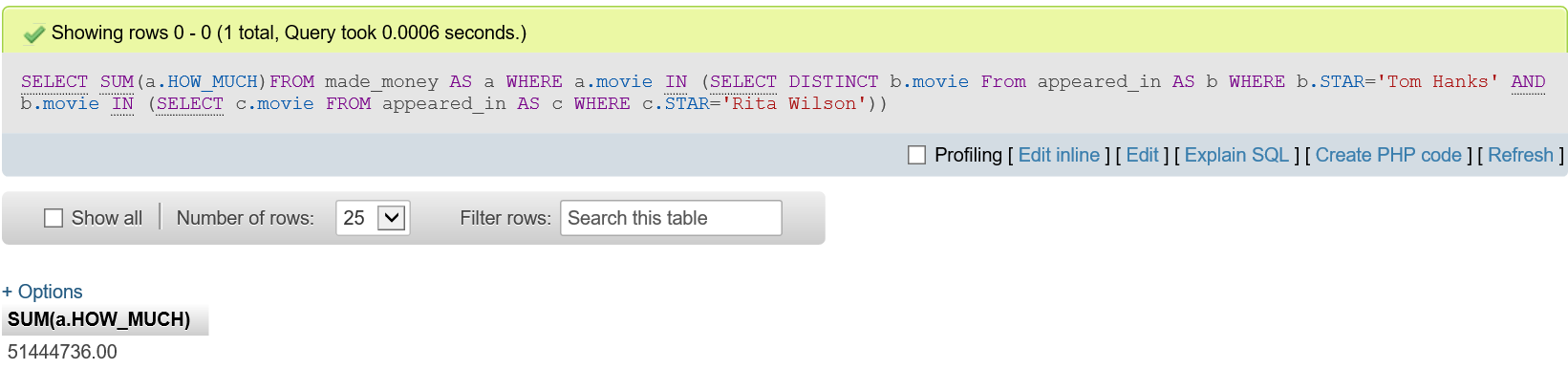
1. **How much money, in total, have movies earned in which 'Tom Hanks' and 'Rita  
   Wilson' starred together?**

SELECT SUM(a.HOW\_MUCH)FROM made\_money AS a

WHERE a.movie IN (SELECT DISTINCT b.movie From appeared\_in AS b

WHERE b.STAR='Tom Hanks' AND b.movie IN (SELECT c.movie FROM appeared\_in AS c

WHERE c.STAR='Rita Wilson'))

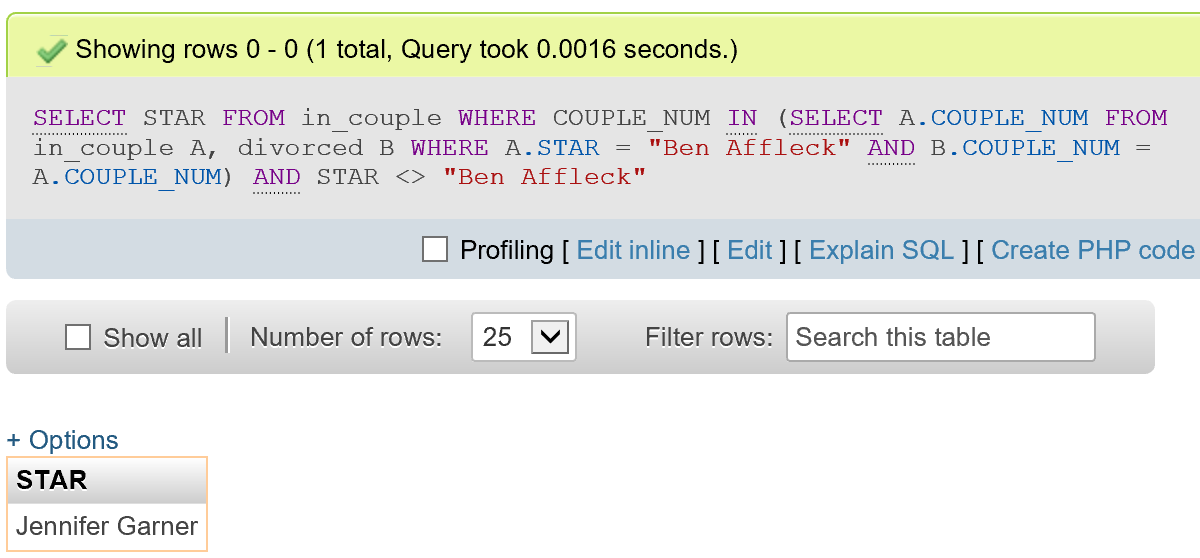


**4.Who has (have) divorced 'Ben Affleck'?**

SELECT STAR FROM in\_couple WHERE COUPLE\_NUM IN

(SELECT A.COUPLE\_NUM FROM in\_couple A, divorced B WHERE A.STAR = "Ben Affleck" AND B.COUPLE\_NUM = A.COUPLE\_NUM)

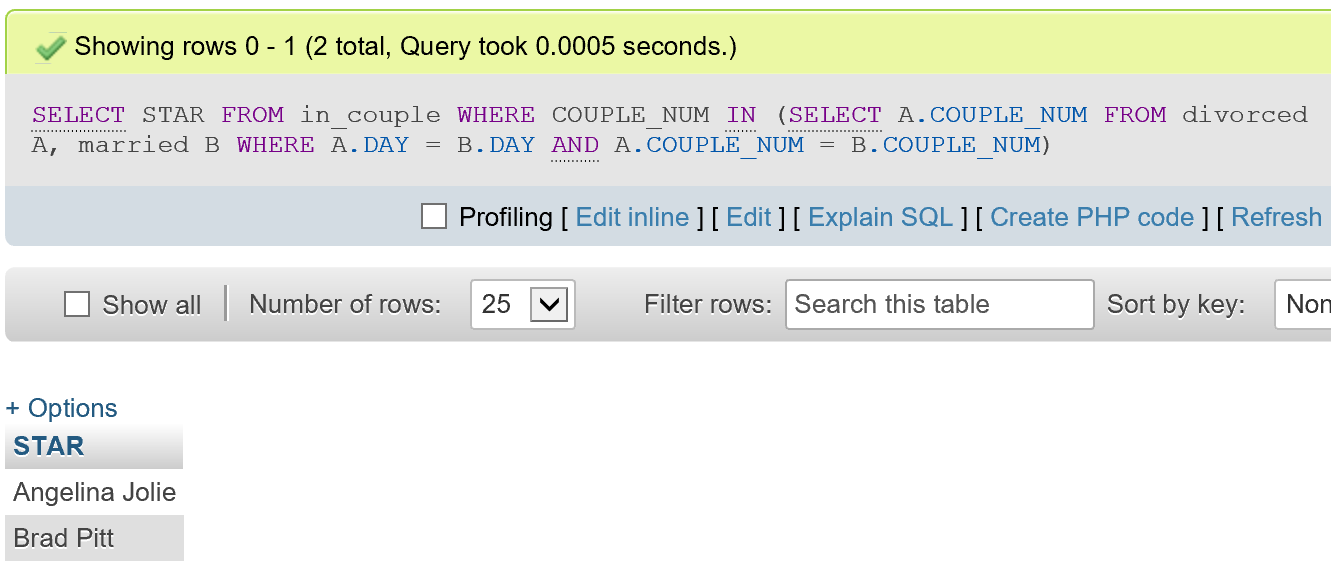
AND STAR <> "Ben Affleck"



**5.Which stars were married and then divorced on the same day?**

SELECT STAR FROM in\_couple WHERE COUPLE\_NUM IN

(SELECT A.COUPLE\_NUM FROM divorced A, married B WHERE A.DAY = B.DAY AND A.COUPLE\_NUM = B.COUPLE\_NUM)



**6.What stars who married one another could possibly have met while working on  
the same movie?**

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

SELECT DISTINCT A.STAR, B.STAR

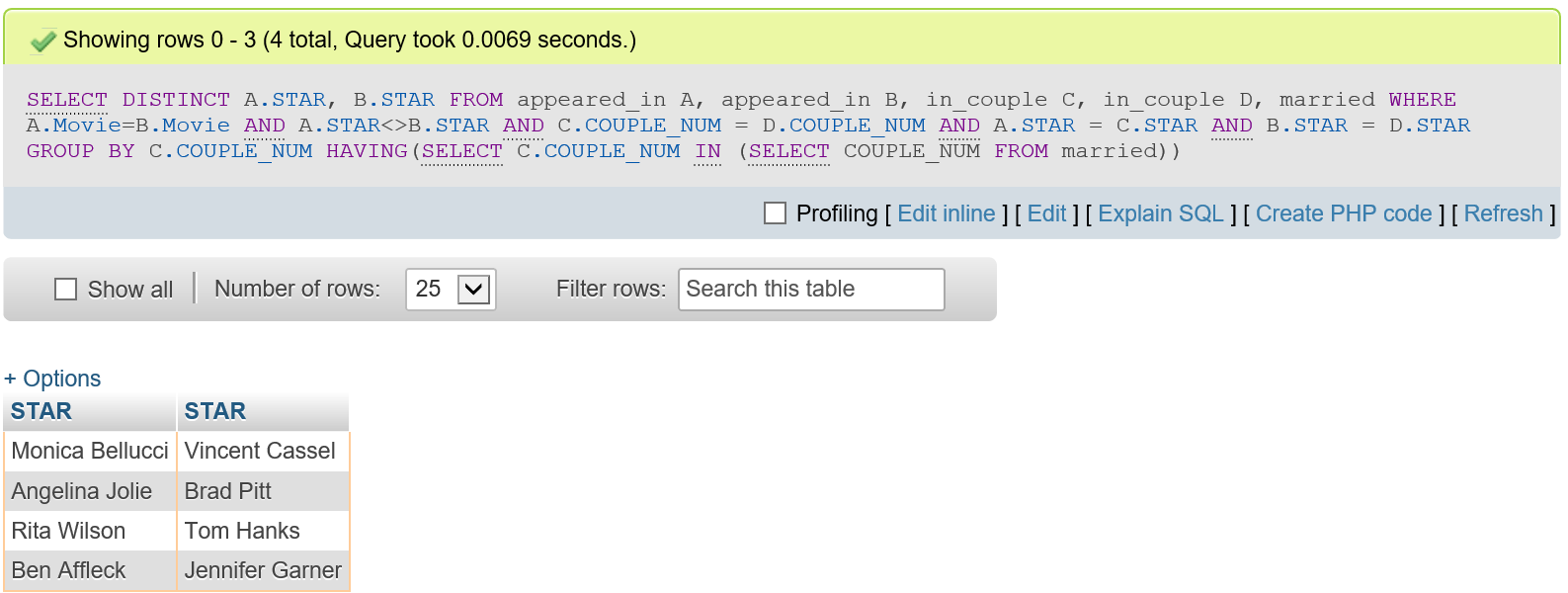
FROM appeared\_in A, appeared\_in B, in\_couple C, in\_couple D, married

WHERE A.Movie=B.Movie

AND A.STAR<>B.STAR AND C.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));

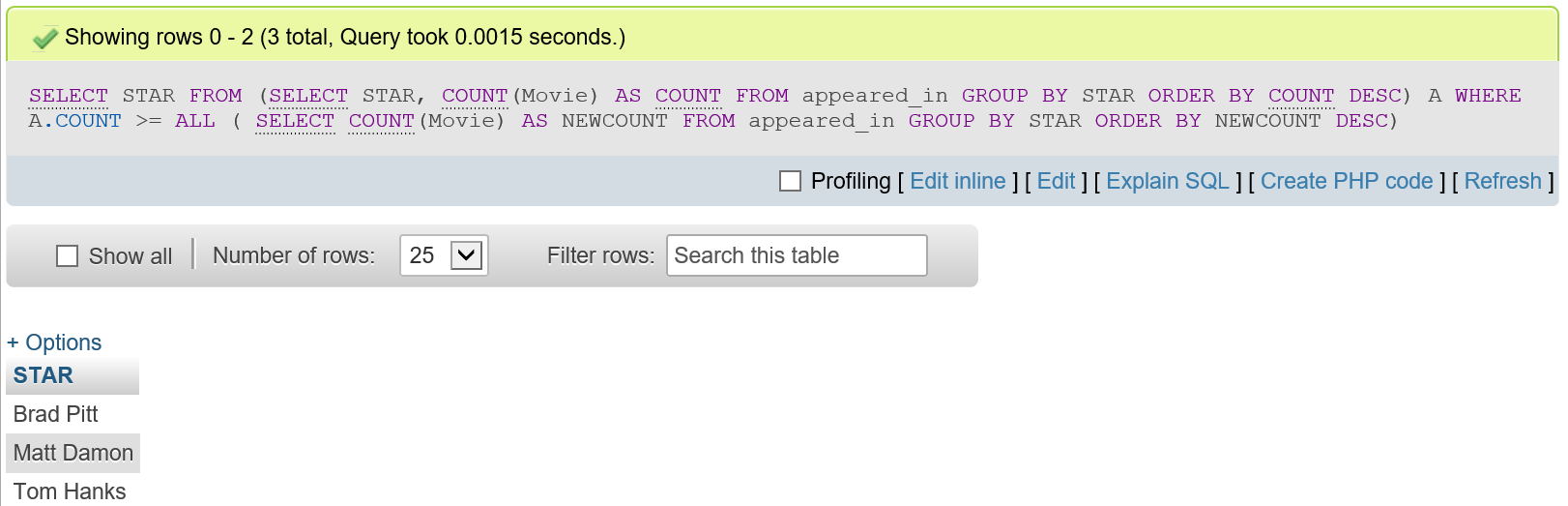


**7.What star has appeared in the most movies?**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) STAR FROM

([SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) STAR, [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(Movie) AS [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count) FROM appeared\_in GROUP BY STAR ORDER BY [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count) DESC) A WHERE A.COUNT >= ALL

([SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(Movie) AS NEWCOUNT FROM appeared\_in GROUP BY STAR ORDER BY NEWCOUNT DESC)



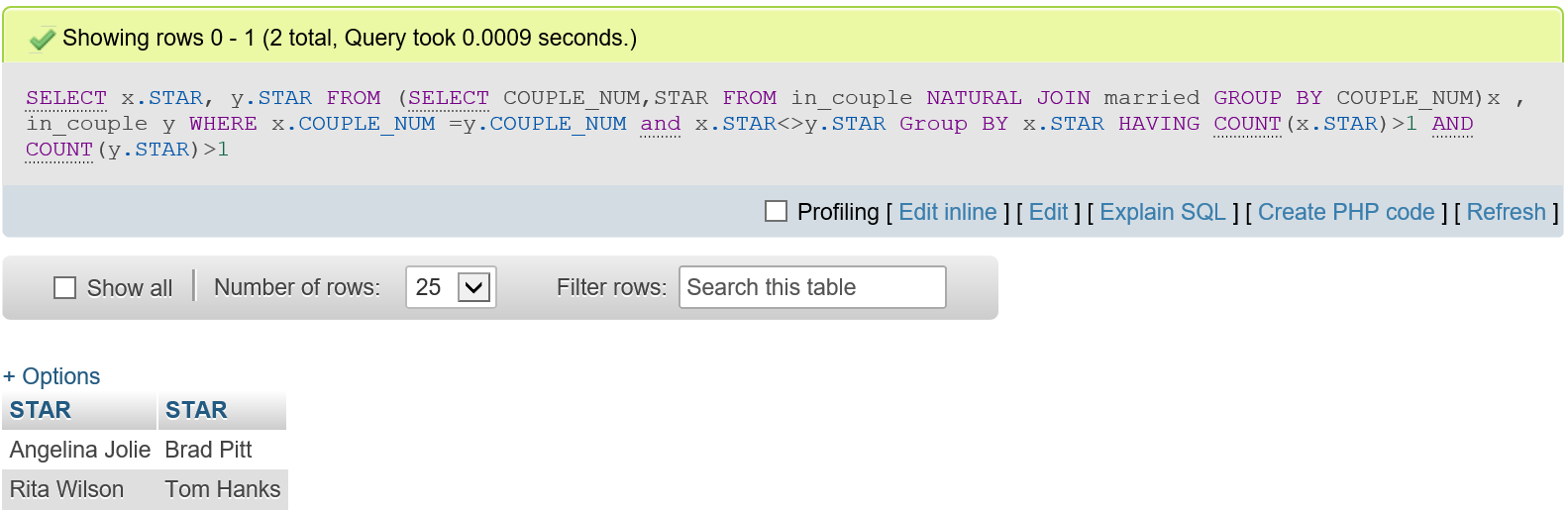
**8.Which pairs of stars were married to each other more than once?**

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

SELECT x.STAR, y.STAR FROM (SELECT COUPLE\_NUM,STAR FROM in\_couple NATURAL JOIN married GROUP BY COUPLE\_NUM)x , in\_couple y

WHERE x.COUPLE\_NUM =y.COUPLE\_NUM and x.STAR<>y.STAR

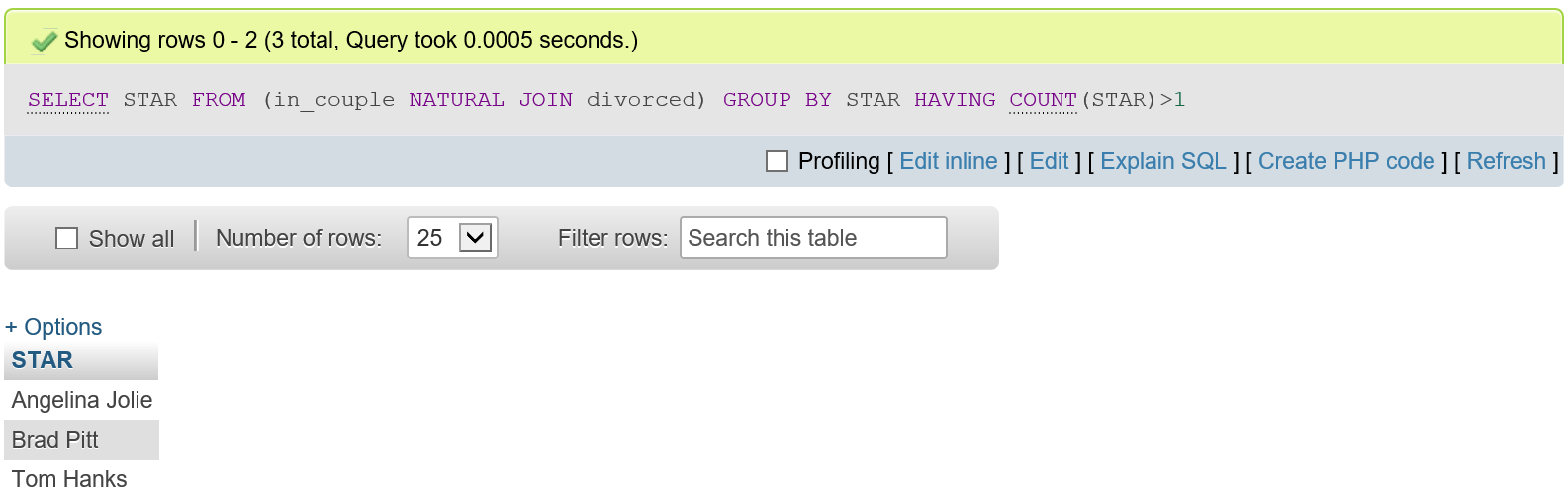
Group BY x.STAR HAVING COUNT(x.STAR)>1 AND COUNT(y.STAR)>1



**9.Which star or stars have been divorced at least two times?**

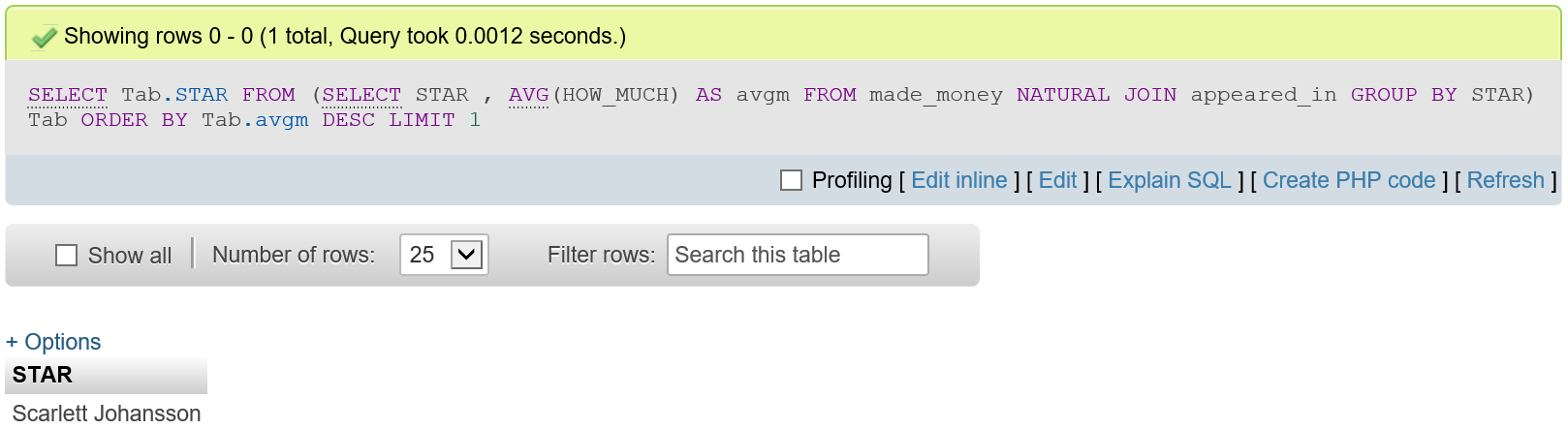
SELECT STAR FROM (in\_couple NATURAL JOIN divorced)

GROUP BY STAR HAVING COUNT(STAR)>1



**10.Which star has averaged the highest box office for all films appeared in?**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) Tab.STAR FROM ([SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) STAR , [AVG](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_avg)(HOW\_MUCH) AS avgm FROM made\_money NATURAL JOIN appeared\_in GROUP BY STAR)Tab ORDER BY Tab.avgm DESC LIMIT 1



**11.What couple averaged the most money per film while they were married?**

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

SELECT aSTAR, bSTAR

FROM(SELECT aSTAR, bSTAR, cnum, MAX(ave)

FROM(SELECT aSTAR, bSTAR, cnum, avg(HOW\_MUCH) as ave

FROM(SELECT \* FROM(SELECT cnum, STAR as aSTAR, bSTAR, DAY as finalday, firstday, Movie

FROM(SELECT couple\_num as cnum, aSTAR as STAR, bSTAR, firstday, DAY

FROM(SELECT A.couple\_num as couple\_num, A.star as aSTAR, B.star as bSTAR, 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, cnum, aSTAR, bSTAR, finalday, firstday, HOW\_MUCH, day\_opened

FROM(SELECT cnum, aSTAR, STAR as bSTAR, DAY as finalday, firstday, Movie

FROM(SELECT firstday, DAY, couple\_num as cnum, aSTAR, bSTAR as STAR

FROM(SELECT A.couple\_num as couple\_num, A.star as aSTAR, B.star as bSTAR, 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>firstday AND day\_opened<finalday )r

GROUP BY cnum

ORDER BY AVG(HOW\_MUCH)DESC)t)y;

