

## Proj1 finished by Xin TONG

### 1.What movies has 'Edward Norton' appeared in?

SELECT `Movie` FROM `appeared\_in` WHERE `STAR` = "Edward Norton"

✓ Showing rows 0 - 2 (3 total, Query took 0.0005 seconds.)

```
SELECT `Movie` FROM `appeared_in` WHERE `STAR` = "Edward Norton"
```

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**Movie**

Fight Club

The Illusionist

The Incredible Hulk

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

SELECT DISTINCT STAR FROM appeared\_in WHERE Movie IN(SELECT Movie FROM appeared\_in WHERE STAR = "Brad Pitt") HAVING STAR<>"Brad Pitt"

✓ Showing rows 0 - 4 (5 total, Query took 0.0015 seconds.)

```
SELECT DISTINCT STAR FROM appeared_in WHERE Movie IN(SELECT Movie FROM appeared_in WHERE STAR = "Brad Pitt")
HAVING STAR<>"Brad Pitt"
```

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+ Options

**STAR**

Edward Norton

Angelina Jolie

George Clooney

Matt Damon

Vincent Cassel

### 3. 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'))

✓ Showing rows 0 - 0 (1 total, Query took 0.0006 seconds.)

```
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'))
```

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SUM(a.HOW_MUCH)
51444736.00

#### 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"
```

✓ Showing rows 0 - 0 (1 total, Query took 0.0016 seconds.)

```
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"
```

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+ Options

STAR
Jennifer Garner

#### 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)
```

✓ Showing rows 0 - 1 (2 total, Query took 0.0005 seconds.)

```
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)
```

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☐ Show all | Number of rows: 25 | Filter rows:  Sort by key: Non

+ Options

STAR
Angelina Jolie
Brad Pitt

## 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));
```

Showing rows 0 - 3 (4 total, Query took 0.0069 seconds.)

```
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))
```

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STAR	STAR
Monica Bellucci	Vincent Cassel
Angelina Jolie	Brad Pitt
Rita Wilson	Tom Hanks
Ben Affleck	Jennifer Garner

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

```
SELECT STAR FROM
(SELECT STAR, COUNT(Movie) AS COUNT FROM appeared_in GROUP BY STAR ORDER BY COUNT
DESC) A WHERE A.COUNT >= ALL
(SELECT COUNT(Movie) AS NEWCOUNT FROM appeared_in GROUP BY STAR ORDER BY
NEWCOUNT DESC)
```

Showing rows 0 - 2 (3 total, Query took 0.0015 seconds.)

```
SELECT STAR FROM (SELECT STAR, COUNT(Movie) AS COUNT FROM appeared_in GROUP BY STAR ORDER BY COUNT DESC) A WHERE
A.COUNT >= ALL ( SELECT COUNT(Movie) AS NEWCOUNT FROM appeared_in GROUP BY STAR ORDER BY NEWCOUNT DESC)
```

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STAR
Brad Pitt
Matt Damon
Tom Hanks

## 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
```

✓ Showing rows 0 - 1 (2 total, Query took 0.0009 seconds.)

```
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
```

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**STAR** **STAR**

Angelina Jolie Brad Pitt

Rita Wilson Tom Hanks

### 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
```

✓ Showing rows 0 - 2 (3 total, Query took 0.0005 seconds.)

```
SELECT STAR FROM (in_couple NATURAL JOIN divorced) GROUP BY STAR HAVING COUNT(STAR)>1
```

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**STAR**

Angelina Jolie

Brad Pitt

Tom Hanks

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

```
SELECT Tab.STAR FROM (SELECT STAR , AVG(HOW_MUCH) AS avgm FROM made_money
NATURAL JOIN appeared_in GROUP BY STAR)Tab ORDER BY Tab.avgm DESC LIMIT 1
```

✓ Showing rows 0 - 0 (1 total, Query took 0.0012 seconds.)

```
SELECT Tab.STAR FROM (SELECT STAR , AVG(HOW_MUCH) AS avgm FROM made_money NATURAL JOIN appeared_in GROUP BY STAR)
Tab ORDER BY Tab.avgm DESC LIMIT 1
```

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**STAR**

Scarlett Johansson

### 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;

```
FROM (SELECT *
FROM in_couple NA[...]
```

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**XSTAR**

**YSTAR**

Ryan Reynolds Scarlett Johansson