

Enter SQL commands here

```
1 SELECT M.title, COUNT(R.rolename)
2 FROM movies AS M, actors AS A, actor_role AS R
3 WHERE A.AID=R.AID AND M.MID=R.MID AND A.name='Tilda Swinton'
4 GROUP BY M.title
```

Execute

Save the db

Load an SQLite database file: 파일 선택 hw3.db

title	COUNT(R.rolename)
Avengers: Endgame	1
Okja	2
Suspiria	3

Enter SQL commands here

```
1 SELECT DISTINCT A.name
2 FROM actors AS A
3 EXCEPT
4 SELECT DISTINCT A.name
5 FROM movies AS M, actors AS A, actor_role AS R
6 WHERE A.AID=R.AID AND M.MID=R.MID
```

Execute

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name
Matt Damon
Tobey Maguire

Enter SQL commands here

```
1 SELECT DISTINCT A.name, M.title
2 FROM actors AS A natural left outer join actor_role AS R natural left outer join movies AS M
```

Execute

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name	title
Adam Driver	House of Gucci
Kristen Stewart	Spencer
Lady Gaga	House of Gucci
Matt Damon	
Robert Pattinson	The Batman
Scarlett Johansson	Black Widow
Scarlett Johansson	Marriage Story
Tilda Swinton	Suspiria
Tilda Swinton	Avengers: Endgame
Tilda Swinton	Okja
Tobey Maguire	

Enter SQL commands here

```
1 WITH switch_id(id1,id2) AS
2   (SELECT ID1,ID2
3     FROM people_likes)
4
5 SELECT COUNT(A.name), A.name
6 FROM (SELECT DISTINCT L.ID1,L.ID2,S.id1,S.id2, M.name
7       FROM people_main AS M, switch_id AS S, people_likes AS L
8       WHERE (L.ID1=S.id2 AND L.ID2=S.id1) AND L.ID1=M.ID) AS A
9 GROUP BY A.name
10 ORDER BY COUNT(A.name) DESC;
```

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COUNT(A.name)	name
2	Adam Driver
2	Francesca Eastwood
1	Betty Friedan
1	Charles Barkley
1	Gloria Vanderbilt
1	Hillary Clinton

Enter SQL commands here

```
1 SELECT A.name,A.occupation
2 FROM (SELECT F.ID1, F.ID2, M.ID,M.name, count(M.name) AS cnt, M.occupation
3       FROM people_friends AS F, people_main AS M
4       WHERE F.ID1=M.ID
5       GROUP BY M.name) AS A
6 WHERE A.cnt >=3
```

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name	occupation
Hillary Clinton	Politician

Enter SQL commands here

```
1 With give(ID1,ID2,ID,name,occupation,birth_year) AS
2   (SELECT *
3     FROM people_likes AS L, people_main AS M
4     WHERE L.ID1=M.ID),
5   take(ID1,ID2,ID,name,occupation,birth_year) AS
6   (SELECT *
7     FROM people_likes AS L, people_main AS M
8     WHERE L.ID2=M.ID)
9
10 SELECT DISTINCT T.name,T.birth_year
11 FROM give AS G, take AS T
12 WHERE (G.ID1=T.ID1 AND G.ID2=T.ID2) AND (G.birth_year > T.birth_year)
13 ORDER BY T.name ASC;
```

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Load an SQLite database file: 파일 선택 hw3.db

name	birth_year
Betty Friedan	1960
Charles Barkley	1963
Gloria Vanderbilt	1924
Hillary Clinton	1947

Enter SQL commands here

```
1 With give(ID1,ID2,ID,name,occupation,birth_year) AS
2   (SELECT *
3    FROM people_likes AS L, people_main AS M
4    WHERE L.ID1=M.ID),
5   take(ID1,ID2,ID,name,occupation,birth_year) AS
6   (SELECT *
7    FROM people_likes AS L, people_main AS M
8    WHERE L.ID2=M.ID)
9
10 SELECT DISTINCT G.name, G.ID, T.ID, T.name
11 FROM people_likes AS L, people_friends AS F, give AS G, take AS T
12 WHERE (L.ID1=F.ID1 AND L.ID2 != F.ID2) AND (L.ID1=G.ID AND L.ID2=T.ID)
13 EXCEPT
14 SELECT DISTINCT G.name,F.ID1,F.ID2,T.name
15 FROM people_friends AS F, give AS G, take AS T
```

Execute

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Load an SQLite database file: 파일 선택 hw3.db

name	ID	ID	name
Adam Driver	1	2	Betty Friedan
Adam Driver	1	7	Gloria Vanderbilt
Adam Driver	1	8	Hillary Clinton
Betty Friedan	2	1	Adam Driver
Betty Friedan	2	3	Charles Barkley
Betty Friedan	2	7	Gloria Vanderbilt
Charles Barkley	3	5	Elon Musk
Charles Barkley	3	6	Francesca Eastwood
David Bowie	4	5	Elon Musk
Elon Musk	5	1	Adam Driver
Elon Musk	5	2	Betty Friedan
Elon Musk	5	7	Gloria Vanderbilt
Francesca Eastwood	6	3	Charles Barkley
Francesca Eastwood	6	7	Gloria Vanderbilt
Gloria Vanderbilt	7	6	Francesca Eastwood
Hillary Clinton	8	1	Adam Driver
Hillary Clinton	8	2	Betty Friedan