

More JOIN operations

Language: English • 日本語 • 中文

This tutorial introduces the notion of a join. The database consists of three tables `movie`, `actor` and `casting`.

movie

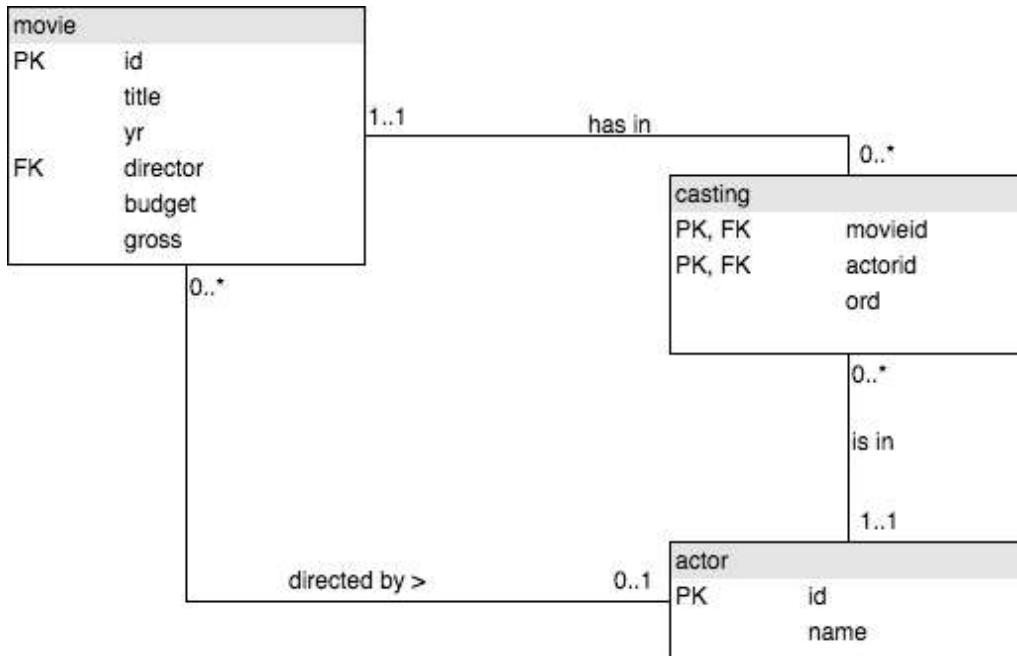
id	title	yr	director	budget	gross
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actor

id	name
-----------	------

casting

movieid	actorid	ord
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More details about the database.

Summary



1962 movies

1.

List the films where the `yr` is 1962 and the budget is over 2000000 [Show `id, title`]

```
SELECT id, title
  FROM movie
 WHERE yr = 1962
   AND budget > 2000000;
```

Submit SQL

restore default

Correct answer

<code>id</code>	<code>title</code>
59084	Mutiny on the Bounty
228186	Lawrence of Arabia
468484	The Longest Day
498150	Taras Bulba
521387	The Manchurian Candidate
555687	The Man Who Shot Liberty Valance
1217650	The Wonderful World of the Brothers Grimm
2622455	Citizen Kane

When was Citizen Kane released?

2.

Give year of 'Citizen Kane'.

```
SELECT yr  
      FROM movie  
     WHERE title = 'Citizen Kane';
```

[Submit SQL](#)

[restore default](#)

Correct answer

yr
1941

Star Trek movies

3.

List all of the Star Trek movies, include the **id**, **title** and **yr** (all of these movies start with the words Star Trek in the title). Order results by year.

```
SELECT id, title, yr
  FROM movie
 WHERE title LIKE 'Star Trek%'
 ORDER BY yr;
```

[Submit SQL](#)[restore default](#)

Correct answer

id	title	yr
107940	Star Trek: The Motion Picture	1979
465478	Star Trek II: The Wrath of Khan	1982
221305	Star Trek III: The Search for Spock	1984
471842	Star Trek IV: The Voyage Home	1986
241218	Star Trek V: The Final Frontier	1989
579757	Star Trek VI: The Undiscovered Country	1991
723679	Star Trek Generations	1994

id for actor Glenn Close

4.

What **id** number does the actor 'Glenn Close' have?

```
SELECT id  
FROM actor  
WHERE name = 'Glenn Close';
```

Submit SQL

restore default

Correct answer

id
372311

id for Casablanca

5.

What is the **id** of the 1942 film 'Casablanca'

```
SELECT id  
      FROM movie  
     WHERE title = 'Casablanca'  
       AND yr = 1942;
```

[Submit SQL](#)

[restore default](#)

Correct answer

id
132689

Get to the point

Cast list for Casablanca

6.

Obtain the cast list for 1942's 'Casablanca'.

what is a cast list?

Use **movieid=11768**, (or whatever value you got from the previous question)

```
SELECT actor.name
  FROM casting
    JOIN actor ON casting.actorid = actor.id
 WHERE casting.movieid = 11768;
```

Submit SQL

restore default

Wrong answer. Too few rows.

name

Show what the answer should be...

Alien cast list

7.

Obtain the cast list for the film 'Alien'

```
SELECT actor.name
  FROM casting
    JOIN actor ON casting.actorid = actor.id
 WHERE casting.movieid = (SELECT id
                           FROM movie
                          WHERE title = 'Alien');
```

[Submit SQL](#)[restore default](#)

Correct answer

name
Sigourney Weaver
John Hurt
Ian Holm
unknown actor
unknown actor
Harry Dean Stanton
Tom Skerritt
DJ Qualls

Harrison Ford movies

8.

List the films in which 'Harrison Ford' has appeared

```
SELECT movie.title
  FROM movie
    JOIN casting ON movie.id = casting.movieid
    JOIN actor   ON casting.actorid = actor.id
 WHERE actor.name = 'Harrison Ford';
```

[Submit SQL](#)[restore default](#)

Correct answer

title
Star Wars: Episode VII – The Force Awakens
Star Wars: Episode IV – A New Hope
Working Girl
Frantic
Zabriskie Point
The Fugitive
Crossing Over

Harrison Ford as a supporting actor

9.

List the films where 'Harrison Ford' has appeared - but not in the starring role. [Note: the **ord** field of casting gives the position of the actor. If **ord=1** then this actor is in the starring role]

```
SELECT movie.title
  FROM movie
    JOIN casting ON movie.id = casting.movieid
    JOIN actor   ON casting.actorid = actor.id
 WHERE actor.name = 'Harrison Ford'
   AND casting.ord > 1;
```

Submit SQL

restore default

Correct answer

title
Star Wars: Episode VII – The Force Awakens
Working Girl
Zabriskie Point
Apocalypse Now
Indiana Jones and the Last Crusade
American Graffiti
Force 10 from Navarone

Lead actors in 1962 movies

10.

List the films together with the leading star for all 1962 films.

```
SELECT movie.title, actor.name AS leading_star
  FROM movie
    JOIN casting ON movie.id = casting.movieid
    JOIN actor   ON casting.actorid = actor.id
 WHERE movie.yr = 1962
   AND casting.ord = 1;
```

[Submit SQL](#)[restore default](#)

Correct answer

title	leading_star
Julius Caesar Against The Pirates	Abbe Lane
The Sins	Abdelhalim Hafez
The Brainiac	Abel Salazar
Viyarppinte Vila	Adoor Bhasi
Les culottes rouges	Adrien Cayla-Legrand
Chūshingura: Hana no Maki, Yuki no Maki	Akira Takarada
Aradhana	Akkineni Nageswara Rao

Harder Questions

Busy years for Rock Hudson

11.

Which were the busiest years for 'Rock Hudson', show the year and the number of movies he made each year for any year in which he made more than 2 movies.

```
SELECT movie.yr, COUNT(*) AS num_movies
FROM movie
JOIN casting ON movie.id = casting.movieid
JOIN actor ON casting.actorid = actor.id
WHERE actor.name = 'Rock Hudson'
GROUP BY movie.yr
HAVING COUNT(*) > 2
ORDER BY movie.yr;
```

[Submit SQL](#)[restore default](#)

Correct answer

yr	num_movies
1950	6
1951	5
1952	5
1953	7
1954	3
1955	3
1956	3
1957	2

Lead actor in Julie Andrews movies

12.

List the film title and the leading actor for all of the films 'Julie Andrews' played in.

Did you get "Little Miss Marker twice"?

Julie Andrews starred in the 1980 remake of Little Miss Marker and not the original(1934).

Title is not a unique field, create a table of IDs in your subquery

mj12



```
SELECT m.title, a2.name AS leading_actor
FROM movie m
    JOIN casting c1 ON m.id = c1.movieid
    JOIN actor a1  ON c1.actorid = a1.id
    JOIN casting c2 ON m.id = c2.movieid
    JOIN actor a2  ON c2.actorid = a2.id
WHERE a1.name = 'Julie Andrews'
    AND c2.ord = 1;
```

Submit SQL[restore default](#)

Correct answer

title	leading_actor
The Sound of Music	Julie Andrews
The Man Who Loved Women	Burt Reynolds
Tooth Fairy	Dwayne Johnson
10	Dudley Moore
Mary Poppins	Julie Andrews
Torn Curtain	Paul Newman
The Princess Diaries 2: Royal Engagement	Anne Hathaway

Actors with 15 leading roles

13.

Obtain a list, in alphabetical order, of actors who've had at least 15 **starring** roles.

```
SELECT actor.name
  FROM actor
    JOIN casting ON actor.id = casting.actorid
 WHERE casting.ord = 1
  GROUP BY actor.name
 HAVING COUNT(*) >= 15
 ORDER BY actor.name;
```

Submit SQL

restore default

Correct answer

name
A. V. M. Rajan
Aamir Khan
Aaron Eckhart
Aaron Kwok
Abhishek Bachchan
Abir Chatterjee
Adam Sandler

released in the year 1978

14.

List the films released in the year 1978 ordered by the number of actors in the cast, then by title.

```
SELECT movie.title, COUNT(casting.actorid) AS num_actors
  FROM movie
    JOIN casting ON movie.id = casting.movieid
 WHERE movie.yr = 1978
 GROUP BY movie.title
 ORDER BY num_actors DESC, movie.title;
```

[Submit SQL](#)[restore default](#)

Correct answer

title	num_actors
Dinner for Adele	154
Cinématon	91
Tajemství Ocelového mesta	80
Balada pro banditu	60
How to Wake a Princess	53
Stíhán a podezрelý	48
Panna a netvor	46

with 'Art Garfunkel'

15.

List all the people who have worked with 'Art Garfunkel'.

```
SELECT DISTINCT a2.name
  FROM casting c1
    JOIN actor a1 ON c1.actorid = a1.id
    JOIN casting c2 ON c1.movieid = c2.movieid
    JOIN actor a2 ON c2.actorid = a2.id
 WHERE a1.name = 'Art Garfunkel'
   AND a2.name <> 'Art Garfunkel'
 ORDER BY a2.name;
```

[Submit SQL](#)[restore default](#)

Wrong answer. Some of the values are incorrect.

name
Alan Arkin
Alice Playten
Ania Marson
Ann-Margret
Anthony Perkins
Aretha Franklin

[Clear your results](#)[JOIN Quiz 2](#)

That is definitely enough. Students should, under no circumstances look at the next tutorial, concerning outer joins. (http://sqlzoo.net/w/index.php/Using_Null)

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