More JOIN operations

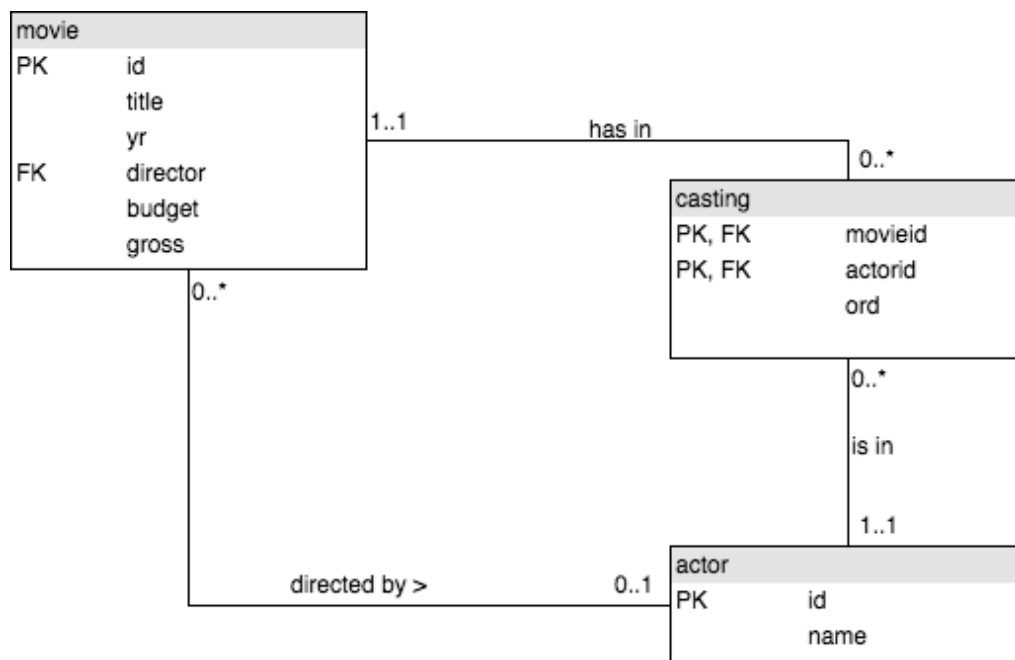| Language:	English • 日本語 • 中文

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

actor

id	name

casting

movieid	*actorid*	**ord**

More details about the database.

Summary

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1962 movies

1.

List the films where the **yr** is 1962 [Show **id**, **title**]

```
SELECT id, title
 FROM movie
 WHERE yr=1962
```

Submit SQL   restore default

Correct answer

id	title
10212	A Kind of Loving
10329	A Symposium on Popular Songs
10347	A Very Private Affair (Vie PrivÃ©e)
10648	An Autumn Afternoon
10868	Atraco a las tres
11006	Barabbas

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 include 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
17772	Star Trek: The Motion Picture	1979
17775	Star Trek II: The Wrath of Khan	1982
17776	Star Trek III: The Search for Spock	1984
17777	Star Trek IV: The Voyage Home	1986
17779	Star Trek V: The Final Frontier	1989
17780	Star Trek VI: The Undiscovered Country	1991
17774	Star Trek Generations	1994
17770	Star Trek: First Contact	1996

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
140

id for Casablanca

5.

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

```
SELECT id FROM movie
WHERE title = "Casablanca"
```

Submit SQL   restore default

Correct answer

id
11768

Get to the point

Cast list for Casablanca

6.

Obtain the cast list for '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 movieid = 11768
```

Submit SQL   restore default

Correct answer

name
Peter Lorre
John Qualen
Madeleine LeBeau
Jack Benny
Dan Seymour
Norma Varden
Ingrid Bergman
Conrad Veidt

Alien cast list

7.

Obtain the cast list for the film 'Alien'

```
SELECT actor.name FROM casting
JOIN actor ON casting.actorid=actor.id
JOIN movie ON casting.movieid=movie.id
WHERE movie.title = "Alien"
```

Submit SQL   restore default

Correct answer

name
John Hurt
Sigourney Weaver
Yaphet Kotto
Harry Dean Stanton
Ian Holm
Tom Skerritt
Veronica Cartwright

Harrison Ford movies

8.

List the films in which 'Harrison Ford' has appeared

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

Submit SQL   restore default

Correct answer

title
A Hundred and One Nights
Air Force One
American Graffiti
Apocalypse Now
Clear and Present Danger
Cowboys & Aliens
Crossing Over
Dead Heat on a Merry-Go-Round

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 casting
JOIN actor ON casting.actorid = actor.id
JOIN movie ON casting.movieid = movie.id
WHERE actor.name = "Harrison Ford"
AND casting.ord <> 1
```

Submit SQL   restore default

Correct answer

title
A Hundred and One Nights
American Graffiti
Apocalypse Now
Cowboys & Aliens
Dead Heat on a Merry-Go-Round
Extraordinary Measures
Force 10 From Navarone
Hawthorne of the U.S.A.

Lead actors in 1962 movies

10.

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

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

Submit SQL   restore default

La commare secca	Marisa Solinas
La notte	Marcello Mastroianni
Life for Ruth	Michael Craig
Lolita	James Mason
Long Day's Journey into Night	Katharine Hepburn
Love at Twenty	Jean-Pierre LÃ©aud
Lycanthropus	Barbara Lass
Mamma Roma	Anna Magnani
Merrill's Marauders	Jeff Chandler
Mother Joan of the Angels	Lucyna Winnicka
Mr. Hobbs Takes a Vacation	James Stewart
Mutiny on the Bounty	Marlon Brando
On the Beat	Norman Wisdom
Os Cafajestes	Daniel Filho

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 yr,COUNT(title) FROM movie
JOIN casting ON movie.id=movieid
JOIN actor   ON actorid=actor.id
WHERE name='Rock Hudson'
GROUP BY yr
HAVING COUNT(title) > 2
```

Submit SQL   restore default

Correct answer

yr	COUNT(title)
1953	5
1961	3

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"?

mj12


```
SELECT movie.title, actor.name FROM movie
JOIN casting ON movie.id = casting.movieid
JOIN actor ON casting.actorid = actor.id
WHERE movie.id IN (
  SELECT movieid FROM casting
  WHERE actorid IN (
    SELECT id FROM actor
    WHERE name = "Julie Andrews"
  )
)
AND ord = 1
```

Submit SQL   restore default

Correct answer

title	name
10	Dudley Moore
Darling Lili	Julie Andrews
Despicable Me	Steve Carell
Duet for One	Julie Andrews
Hawaii	Julie Andrews
Little Miss Marker	Walter Matthau
Mary Poppins	Julie Andrews
Relative Values	Julie Andrews

Actors with 15 leading roles

13.

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

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

Submit SQL   restore default

Correct answer

name
Adam Sandler
Al Pacino
Anthony Hopkins
Antonio Banderas
Arnold Schwarzenegger
Barbara Stanwyck
Basil Rathbone
Ben Affleck

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

Submit SQL   restore default

Correct answer

title	COUNT(casting.actorid)
The Bad News Bears Go to Japan	50
The Swarm	37
Grease	28
American Hot Wax	27
The Boys from Brazil	26
Heaven Can Wait	25
Big Wednesday	21
A Night Full of Rain	19

with 'Art Garfunkel'

15.

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

```
SELECT a2.name FROM actor a1
JOIN casting c1 ON a1.id = c1.actorid
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'
```

Submit SQL   restore default

| Cecilie Thomsen |
| Frederique van der Wal |
| Veronica Webb |
| Peter Bogdanovich |
| Beverly Johnson |
| Bruce Jay Friedman |
| Lorna Luft |
| Valerie Perrine |
| Stars on 54 |
| Julian Sands |
| Bill Paxton |
| Sherilyn Fenn |
| Kurtwood Smith |
| Harris Yulin |

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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