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

12710	Dr. No
12817	L'Eclisse
12967	Tutti a casa
12992	Experiment in Terror
13010	Eyes Without a Face
13484	Gay Purr-ee
13534	Gigot
13641	Gorath
13727	Gypsy
13741	Half Ticket
13798	Harakiri
14317	In Search of the Castaways
14454	It's Only Money
14550	Jigsaw

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
17771	Star Trek: Insurrection	1998

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 name
from actor, casting
where id=actorid and movieid = (select id from movie where title = 'Casablanca')
```

Submit SQL   restore default

Correct answer

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

Alien cast list

7.

Obtain the cast list for the film 'Alien'

```
select name
from actor
  join casting on (id=actorid and movieid = (select id from movie where 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

Submit SQL   restore default

result

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]

Submit SQL   restore default

result

Lead actors in 1962 movies

10.

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

```
select title, name
from movie join casting on (id=movieid)
join actor on (actor.id = actorid)
where ord=1 AND  yr = 1962
```

Submit SQL	restore default

Correct answer

title	name
A Kind of Loving	Alan Bates
A Symposium on Popular Songs	Paul Frees
A Very Private Affair (Vie PrivÃ©e)	Brigitte Bardot
An Autumn Afternoon	Chishu Ryu
Atraco a las tres	JosÃ© Luis LÃ³pez VÃ¡zquez
Barabbas	Anthony Quinn
Battle Beyond the Sun (Ð□ÐµÐ±Ð¾ Ð·Ð¾Ð²ÐµÑ‚)	Aleksandr Shvorin
Big and Little Wong Tin Bar	Jackie Chan
Billy Budd	Terence Stamp

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='Doris Day'
GROUP BY yr
HAVING COUNT(title) > 1
```

Submit SQL   restore default

Result:

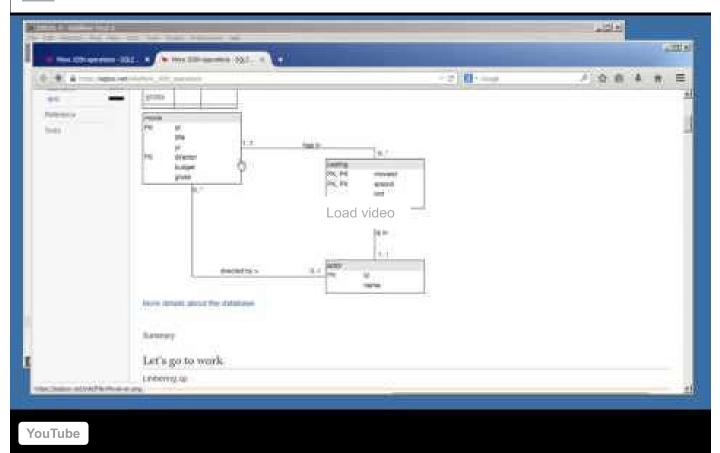| yr	COUNT(title)
1950	2
1951	3
1956	2
1962	2
1963	2

Show what the answer should be...

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

YouTube

```
SELECT movieid FROM casting
WHERE actorid IN (
  SELECT id FROM actor
  WHERE name='Julie Andrews')
```

Submit SQL   restore default

Result:

movieid
10016
12354
12497
12766
13846

15145
15476
16870
17117

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 (id = actorid AND (select count(ord) from casting where actorid = actor.id
and ord=1)>=30)
group by name
```

Submit SQL   restore default

Result:

name
Bette Davis
Bruce Willis
Burt Lancaster
Gary Cooper
James Stewart
John Wayne
Paul Newman
Spencer Tracy
William Garwood

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(actorid) as cast
from movie join casting on id=movieid
where yr = 1978
group by title
order by cast desc
```

Submit SQL   restore default

Error:

Lost connection to MySQL server during query

with 'Art Garfunkel'

15.

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

```
select distinct name
from actor join casting on id=actorid
where movieid in (select movieid from casting join actor on (actorid=id and name='Art
Garfunkel')) and name != 'Art Garfunkel'
group by name
```

Submit SQL   restore default

Wrong answer. Some of the data is incorrect.

name
Beverly Johnson
Bill Paxton
Breckin Meyer
Bruce Jay Friedman
Cameron Mathison
Cecilie Thomsen
Cindy Crawford
Donald Trump

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)

Retrieved from 'http://sqlzoo.net/w/index.php?title=More_JOIN_operations&oldid=40243'

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