

# Assignment 2 - SQL Zoo - More JOIN operations

Tags

Module 304

## More JOIN operations

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

Movie Table

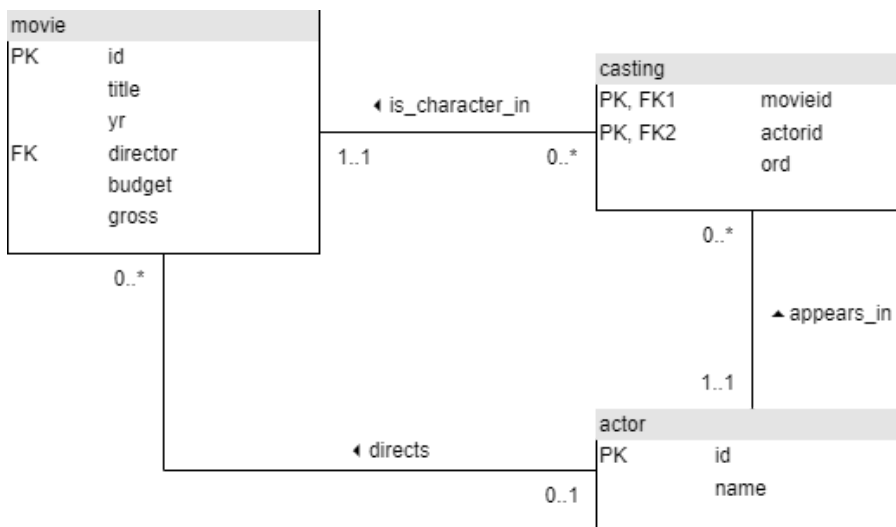
id	title	yr	director	budget	gross
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Actor Table

id	name
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Casting Table

movieid	actorid	ord
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[More details about the database.](#)

## 1. 1962 movies

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

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

## 2. When was Citizen Kane released?

Give year of 'Citizen Kane'.

```
SELECT yr
from movie
where title = 'Citizen Kane';
```

## 3. Star Trek movies

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;
```

## 4. id for actor Glenn Close

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

```
select id
from actor
where name = 'Glenn Close';
```

## 5. id for Casablanca

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

```
select id
from movie
where title = 'Casablanca';
```

## 6. Cast list for Casablanca

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 casting
join actor on id = actorid
where movieid = 11768;
```

## 7. Alien cast list

Obtain the cast list for the film 'Alien'

```
select a.name
from casting c
join movie m on c.movieid = m.id
join actor a on a.id = c.actorid
where m.title = 'Alien';
```

## 8. Harrison Ford movies

List the films in which 'Harrison Ford' has appeared

```
Select title
from movie m
join casting c on c.movieid = m.id
join actor a on a.id = c.actorid
where a.name = 'Harrison Ford';
```

## 9. Harrison Ford as a supporting actor

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 title
from movie m
join casting c on c.movieid = m.id
join actor a on a.id = c.actorid
where a.name = 'Harrison Ford'
and c.ord <> 1;
```

## 10. Lead actors in 1962 movies

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

```
select title, a.name
from movie m
join casting c on c.movieid = m.id
join actor a on a.id = c.actorid
where yr = 1962 and c.ord = 1;
```

## 11. Busy years for Rock Hudson

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
```

## 12. Lead actor in Julie Andrews movies

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

*Did you get "Little Miss Marker twice"?*

<https://youtu.be/BcNIDK5qYx8>

```
SELECT distinct m.title, a.name
FROM casting c
JOIN movie m on m.id = c.movieid
```

```
JOIN casting ca on ca.movieid = m.id
JOIN actor a on a.id = ca.actorid
WHERE c.actorid IN (
    SELECT id FROM actor
    WHERE name='Julie Andrews')
and ca.ord = 1;
```

## 13. Actors with 15 leading roles

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

```
select a.name
from actor a
join casting c on c.actorid = a.id
where c.ord = 1
group by a.name
having count(a.name) >= 15
order by name;
```

## 14. released in the year 1978

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

```
select m.title, count(*)
from movie m
join casting c on c.movieid = m.id
where m.yr = 1978
group by m.title
order by 2 desc, 1
```

## 15. with 'Art Garfunkel'

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

```
select distinct a.name
from actor a
join casting c on c.actorid = a.id
join movie m on m.id = c.movieid
```

```
where m.id IN (Select m.id
from casting c
join actor a on a.id = c.actorid
join movie m on m.id = c.movieid
where a.name = 'Art Garfunkel')
and a.name <> 'Art Garfunkel';
```