# SQLZoo

Unofficial answers to sqlzoo exercises found here: https://sqlzoo.net/wiki/More_JOIN_operations

**movie**

| id | title | yr | director | budget | gross |
|----|-------|----|----------|--------|-------|

**actor**

| id | name |
|----|------|

**casting**

| movieid | actorid | ord |
|---------|---------|-----|

## More JOIN operations

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

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

2. Give year of 'Citizen Kane'.

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

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;
```

4. What id number does the actor 'Glenn Close' have?

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

5. What is the id of the film 'Casablanca'?

```
SELECT DISTINCT movieid FROM casting JOIN movie ON(movieid=id)
WHERE title = 'Casablanca';
```

6. Obtain the cast list for 'Casablanca'. Use movieid=11768.

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

7. Obtain the cast list for the film 'Alien'.

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

8. List the films in which 'Harrison Ford' has appeared.

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

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

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

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

11. Which were the busiest years for 'John Travolta', 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) AS num_movies FROM movie JOIN casting ON
movie.id=movieid
                                        JOIN actor ON actorid=actor.id
WHERE name = 'John Travolta'
GROUP BY yr
HAVING COUNT(title)=(SELECT MAX(c) FROM (SELECT yr,COUNT(title) AS c FROM movie
JOIN casting ON movie.id=movieid JOIN actor ON actorid=actor.id
WHERE name='John Travolta'
GROUP BY yr) AS t);
```

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

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

13. Obtain a list, in alphabetical order, of actors who've had at least 30 starring roles.

```
SELECT DISTINCT name FROM actor JOIN casting ON(actor.id = casting.actorid)
WHERE (SELECT COUNT(ord) FROM casting WHERE casting.actorid = actor.id AND ord
=
       1) >= 30
ORDER BY name;
```

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_cast FROM movie JOIN casting
ON(movie.id = casting.movieid)
WHERE movie.yr = 1978
GROUP BY movie.title
ORDER BY num_cast DESC, movie.title;
```

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

```
SELECT DISTINCT name FROM actor JOIN casting ON(actor.id = casting.actorid)
WHERE casting.movieid IN(SELECT movieid FROM casting JOIN actor ON(actorid=id)
                        WHERE name = 'Art Garfunkel')
    AND actor.name != 'Art Garfunkel';
```