

# 6-16-2017

## Examples from 5notes16 part 3

Movie(Title,Year,length,inColor,studioName,producerC#)

StarsIn(MovieTitle,MovieYear,StarName)

MovieStar(Name,address,gender,birthdate)

MovieExec(name,address,Cert#,netWorth)

Studio(Name,address,presC#)

Find the address of 'Lucas Films' studios.

```
1 SELECT *
2 FROM studio
3 WHERE name LIKE 'Lucas%'
```

Find all stars that appeared either in a movie made in 2002 or a movie with 'world' in the title.

```
1 SELECT DISTINCT(starname)
2 FROM starsin
3 WHERE movieyear = 2002
4 OR movietitle LIKE '%world%'
```

Find the names and addresses of all female movie stars who are also movie executives with a net worth over \$5000.

```
1 SELECT *
2 FROM moviestar ms, movieExec me
3 WHERE gender = 'f'
4 AND network = 5000
5 AND ms.name = me.name
```

Which movies are longer than 'Star Wars?'

```
1 SELECT m1.title AS m1title, m1.year AS m1year, m1.length AS m1length, m2.title AS m2title,
   m2.year AS m2year, m2.length AS m2length
2 FROM movies m1, movies m2
3 WHERE m1.title = 'star wars'
4 AND m1.length < m2.length
```

Find studios that produced at least 2 movies that contain at least 2 stars born before 1960.

```
1 SELECT *
```

```

2 FROM movies m1, movies m2, starsin s1, starsin s2, starsin s3, starsin s4, moviesstar ms1,
   moviestar ms2, moviestar ms3, moviestar ms4
3 WHERE m1.studioname = m2.studioname
4 AND ( m1.movietitle != m2.movietitle
5       OR m1.year != m2.year )
6 AND ( s1.movietitle = m1.movietitle
7       AND s1.movieyear = m1.movieyear
8       AND s2.movietitle = m1.movietitle
9       AND s2.movieyear = m1.movieyear
10      AND s1.starname != s2.starname )
11 AND ( s1.starname = ms1.name
12       AND s2.starname = ms2.name
13       AND s1.birthdate < 1960
14       AND s2.birthdate < 1960 )

```

## Examples from Quiz: Notes 16

1. Find all movies that Harold Ramis had anything to do with (he is both a movie star and producer).

```

1 SELECT movietitle, movieyear
2 FROM starsin
3 WHERE starname = 'harold ramis'
4 UNION
5 SELECT title, year
6 FROM movies, moviesExec
7 WHERE movies.producerCnum = movieExec.certnum
8 AND name = 'harold ramis'

```

2. Find a list of pairs of movies which Harrison Ford starred.

```

1 SELECT s1.movietitle AS s1title, s1.movieyear AS s1year, s2.movietitle AS s2title,
   s2.movieyear AS s2year
2 FROM starsin s1, starsin s2
3 WHERE s1.starname = s2.starname
4 AND s1.starname = 'harrison ford'
5 AND ( s1.movietitle < s2.movietitle
6       OR ( s1.movietitle = s2.movietitle
7           AND s1.movieyear < s2.movieyear ) )

```

3. Find the movies that contain Sigourney Weaver, but not Nathan Fillian

```

1 SELECT movietitle, movieyear
2 FROM starsin
3 WHERE starname = 'sigourney weaver'
4 AND (movietitle, movieyear)
5 NOT IN (
6   SELECT movietitle, movieyear
7   FROM starsin
8   WHERE starname = 'nathan fillian' )

```

4. Find all actors in the Star Wars movie. (assume that full movies titles are used, so the titles are not

identical)

```
1 SELECT DISTINCT(starname)
2 FROM starsin
3 WHERE movietitle LIKE '%star wars%'
```

5. Find all studios who have employed two or more actors

```
1 SELECT DISTINCT m1.studioname
2 FROM starsin s1, movies m1, starsin s2, movies m2
3 WHERE s1.movietitle = m1.title
4 AND s1.movieyear = m1.year
5 AND s2.movietitle = m2.title
6 AND s2.movieyear = m2.year
7 AND m1.studioname = m2.studioname
8 AND s1.starname < s2.starname
```