

Lab3 CIS 3530 - worth 4%

Submit all queries in a file called lastnameFirstnameL3.sql (e.g. chaturvediRituL3.sql)

Step 1. Connect to linux.socs.uoguelph.ca and Postgres (see tutorial1 for details).

Step 2. Download the following 2 scripts from Moodle and run them on Postgres:

- (1) movies\_schema.sql to create and populate the movie database
- (2) movies\_schema\_alter.sql to add primary and foreign keys to the created tables.

Remember, to run the scripts on Postgres, use \i (e.g. \i movies\_schema.sql).

```
>select * from movie;
```

mid	title	year	director
101	Gone with the Wind	1939	Victor Fleming
102	Star Wars	1977	George Lucas
103	The Sound of Music	1965	Robert Wise
104	E.T.	1982	Steven Spielberg
105	Titanic	1997	James Cameron
106	Snow White	1937	
107	Avatar	2009	James Cameron
108	Raiders of the Lost Ark	1981	Steven Spielberg

(8 rows)

```
>select * from reviewer;
```

rid	name
201	Sarah Martinez
202	Daniel Lewis
203	Michael Walsh
204	Mike Anderson
205	Chris Jackson
206	Elizabeth Thomas
207	John Moore
208	Ashley White

(8 rows)

```
>select * from rating;
```

rid	mid	stars	ratingdate
201	101	2	2011-01-22

201	101	4	2011-01-27
202	106	4	
202	107	3	2011-10-02
203	103	2	2011-01-20
203	108	4	2011-01-12
203	108	2	2011-01-30
204	101	3	2011-01-09
205	101	3	2011-01-27
205	102	2	2011-01-27
205	105	4	2011-01-27
205	106	2	2011-01-27
205	107	3	2011-01-27
205	103	3	2011-01-27
205	104	2	2011-01-22
205	108	4	
206	107	3	2011-01-15
206	106	5	2011-01-19
207	107	5	2011-01-20
208	104	3	2011-01-02

(20 rows)

rating(rid) is a foreign key that references table reviewer  
rating(mid) is a foreign key that references table movie

Step 3: Write SQL queries to do the following:

1. List names of reviewers who reviewed all movies reviewed by 'Elizabeth Thomas'.

Expected Result:

name
Daniel Lewis
Chris Jackson
Elizabeth Thomas

(3 rows)

2. List all reviewers and the total number of movies reviewed by them (they may review a movie more than once) in descending order of the total number of movies reviewed by them.

Hint: You may use AS to rename headings. For example,  
SELECT count (\*) AS total FROM Movie;

Expected Result:

name	total

Chris Jackson		8
Michael Walsh		3
Daniel Lewis		2
Elizabeth Thomas		2
Sarah Martinez		2
Ashley White		1
Mike Anderson		1
John Moore		1

(8 rows)

3. List all movies that have been reviewed by 2 or more reviewers.

Hint: You may use AS to rename headings. For example,  
 SELECT count (\*) AS "Number of Movies" FROM Movie;

Expected Result:

title	Reviewed by
-----+-----	
Gone with the Wind	4
Avatar	4
Raiders of the Lost Ark	3
Snow White	3
E.T.	2
The Sound of Music	2

(6 rows)

4. Which movies have the highest rating?

Expected Result:

title
-----
Snow White
Avatar

(2 rows)

5. List the oldest movie (in this database) that has been reviewed.

Expected Result:

title
-----
Snow White

(1 row)