Lab Exercise 6

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The purpose of this lab is to practice MySQL.

1 SQL Queries

In this exercise, you are supposed to practice SQL queries. Download `imdb_small.sql` with this lab exercise and set it up on your MySQL instance. Below is the code for importing `imdb_small.sql`. Note, you have to make sure that environmental variable `PATH` contains path to `mysql.exe`. Default path to `mysql.exe` is `C:\xampp\mysql\bin`. Also open command line window in the same folder where `imdb_small.sql` located.

```
mysql -u root -p

## after this you login to your current mysql server, and mysql console will come out.

CREATE DATABASE imdb;
source imdb_small.sql;
```

Figure 1 shows an example snapshot from IMDB database:

id	first_name	last_name	gender
433259	William	Shatner	M
797926	Britney	Spears	F
831289	Sigourney	Weaver	F
...			

actors

id	name	year	rank
112290	Fight Club	1999	8.5
209658	Meet the Parents	2000	7
210511	Memento	2000	8.7
...			

movies

actor_id	movie_id	role
433259	313398	Capt. James T. Kirk
433259	407323	Sgt. T.J. Hooker
797926	342189	Herself
...		

roles

movie_id	genre
209658	Comedy
313398	Action
313398	Sci-Fi
...	

movies_genres

id	first_name	last_name
24758	David	Fincher
66965	Jay	Roach
72723	William	Shatner
...		

directors

director_id	movie_id
24758	112290
66965	209658
72723	313398
...	

movies_directors
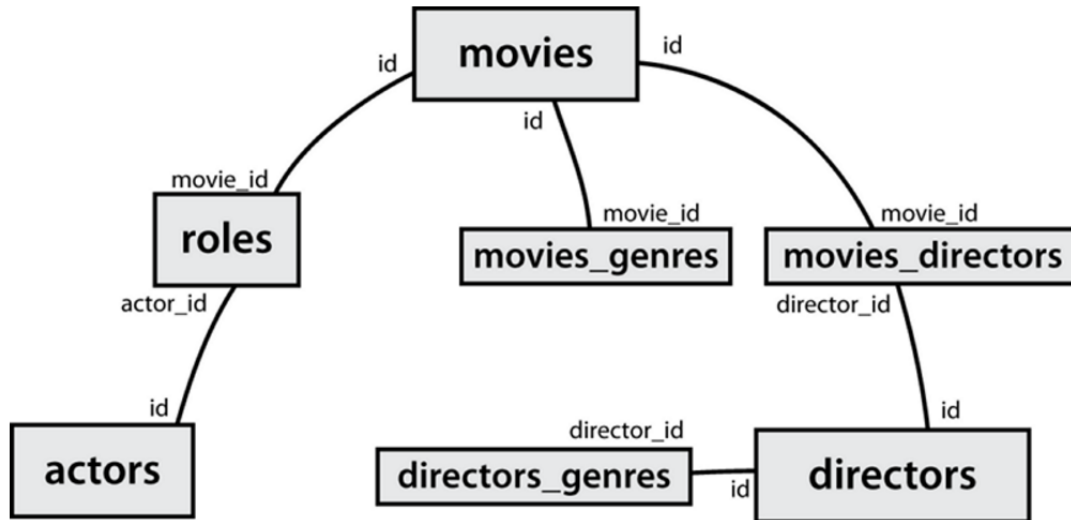
Figure 1: IMDB Database Tables

Figure 2: IMDB Database Schema

You can find the database scheme given in Figure 2
Run following queries on IMDB database.

A. What are the names of all movies released in 1995?

B. How many people played a part in the movie "Lost in Translation"?

C. What are the names of all the people who played a part in the movie "Lost in Translation"?

D. Who directed the movie "Fight Club"?

E. How many movies has Clint Eastwood directed?

F. What are the names of all movies Clint Eastwood has directed?

G. What are the names of all directors who have directed at least one horror film?

H. What are the names of every actor who has appeared in a movie directed by Christopher Nolan?