**Miniworld assumption**

We have a movie forum site. There are movies on our forum site.  
Users will register to forum and only authenticated users may rate & comment movies.  
The database will store each movies;

* movie\_id
* date\_of\_release
* title
* average\_rating
* budget
* income
* revenue (income - budget) information.

A movie has its genres.  
All genres have at least one movie.  
The database will store each genres;

* name (at least 1)

Each movie will have actor(s), director(s) and producer(s).  
There are artists contributing to each movie. Each artist can be an actor, director or producer at the same time.  
The database will store each artists;

* artist\_id (pk)
* gender
* name (fname, mname, lname)
* date\_of\_birth
* age (derived)

Actors act in movies, directors direct movies and producers produce movies.  
Users rate and comment movies, their date of rate & comment will be stored.The database will store each users;

* user\_id
* username
* password
* email
* address
* phone
* name (fname, mname, lname)

Movies have ratings.  
The database will store each ratings;

* numeric\_rating
* verbal\_rating

Movies have comments.  
The database will store each comments;

* id (pk)
* content
* number of likes
* number of dislikes

Comments have a reply. Then each of this replies may have a child reply.

* reply\_id (primary key)
* parent\_reply\_id (foreign key)
* content
* number of likes
* number of dislikes