Practice 1 – ER diagram

1. Can work individually or in group: Draw E/R diagram (no need to show attributes of the entity types) - need to show two types of relationship constraints –
   1. Studio & movie: assume each movie only owned by 1 studio; not every studio has produced movie
   2. Original movie (i.e., 1st movie in the sequence) & sequel
2. Must work in a group of 2-5 students, write down your members’ names & submit your E/R diagram:

The US Film Institute collects statistics about movies and moviegoers in USA. These statistics are stored in a database.

 Each movie has a unique number, and also a name, a production year (movie name and production year combined is unique for movie too), and a country of origin. Each movie theater has a unique number, and also a name, a city and a state where it is located. Each movie theater contains one or more screens (in separate rooms), where the movies are shown. Each such screen has a number, which is unique within that theater, and a name. For each screen, we need to store data about the movie shows that have occurred: which movie that was shown, at what time, and how many visitors there were.

Draw an E/R diagram using the notations we discussed in the class for the database described above. Need to show the cardinality constraints and participation constraint. If you need to make any extra assumptions when making the E/R diagram, then state these assumptions.