**Assignment #1**

**For the following case study, draw an ER diagram to represent the data requirements as following:**

* Identify the main entity types.
* Identify the main relationship types between the entity types.
* Identify attributes and associate them with entity or relationship types.
* Determine primary (or partial) key attributes for each entity type.
* Determine the multiplicity constraints for each relationship.
* State any assumptions necessary to support your design.

Suppose that you are designing a schema to record information about TV shows. Your database needs to record the following information:

* For each show, its name, genre, basic\_info and participants name. Any show has at least two or more participants.
* For each producer, the company name, company country. A show is produced by exactly one producer. And one producer produces exactly one show.
* For each channel, its name, start year, head office. A channel may broadcast multiple shows. Each show is broadcasted by exactly one channel.
* For each user, his/her username, password, and age. A user may rate multiple shows, and a show may be rated by multiple users. Each rating has a score of 0 to 10.

Draw an entity relationship diagram for this database.