MovieExplore Problem Domain

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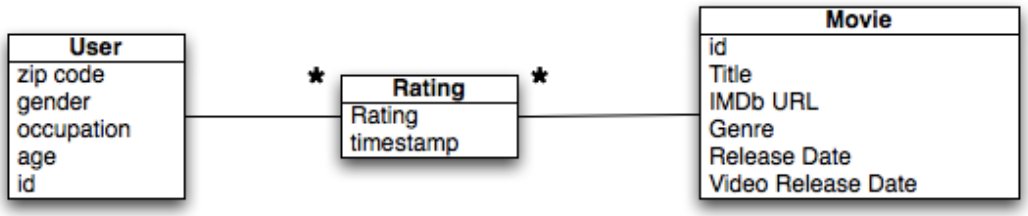

Rating

The core entity in our problem domain model is the Rating. Each rating in our data set is associated with exactly one movie, and exactly one user. It would simply make no sense for a single rating to represent the opinions of two separate users. Similarly, each Rating is associated with exactly one Movie. It would be senseless to associate one Rating to 2 or more Movies (For instance, try to interpret the meaning behind "The Matrix and Jaws: 4/5; The Matrix and Star Wars: 5/5". For at least one of the movies listed, the meaning of the rating is ambiguous). In terms of attributes, a Rating has only 2: a representation of the rating out of five, and a timestamp given in terms of seconds since the UNIX epoch.

User

As is hopefully obvious from the name, the User entity represents a user in our data set. The attributes of User encompass everything our data set can tell us about a given user (age, gender, zip code, etc.). A user may be associated with any number of ratings (that is, a user may never have rated a movie, may have only rated a few, or perhaps is very prolific and has rated hundreds of movies).

Movie

The last entity relevant to our problem domain is that of the Movie. Once again, the Movie has attributes encompassing everything our data set can tell us about a particular movie which we do not already know from another entity. In terms of its relationship to other entities, Movies are associated with Ratings (as indicated previously). More specifically, it is natural that a Movie can have any number of Ratings. It may have none, it may have thousands.

Notes

No methods have been indicated in our problem domain diagram, as these methods concern what is to be done with the data available, a matter which falls within the scope of the solution domain and outside that of the problem domain.