

## CSE 462: Project #1 (due 10/05/05)

The task is to create a database which could power a site like netflix.com. Subscribers to netflix.com are able to rent DVDs using a browser. Subscribers place their selections of available for rent DVDs into their own personal queue. At any time there are up to 3 DVDs not at Netflix from their queue (either the subscriber has them or they are in transit to or from Netflix). The movies from the top of the queue are shipped, as the movies previously rented are returned to Netflix.

Netflix tracks two types of information in their database:

- Movie information,
- Customer information.

Movie information includes such things as categories, actor, director, and writer information (several of each could occur), average rating (a real number), a brief writeup, and a release date. Unreleased movies should be distinguished from released ones. Also, the number of copies of each movie in stock needs to be tracked.

Customer information includes billing/shipping/contact (name, email, address, password) information, and credit card number. It also includes the customer's personal queue of selected movies (along with whether each is at Netflix or not), the checked out movies, and the ratings (integers from 1 to 5) of some of the returned movies (if a movie was rated more than once, only the last rating is kept).

Rental history need not be kept.

You are supposed to do the following:

1. Design an Entity-Relationship schema for the above database.
2. Produce from it a relational schema in BCNF in the form of appropriate CREATE TABLE SQL statements under Oracle.

Submit your solution as a PDF file using `submit_cse462`.