

COSC265: The MOVIES database

Requirements:

You are to design a database for a video club. Every movie has a unique number associated with it. Additional information about each movie include: the title of the movie, the year it was produced, the type of the movie, the critics rating (number of stars); the number of Academy Award nominations received and won. A movie is directed by one director only.

Each director is represented by his/her name, unique number, year of birth and year of death (if appropriate). Movie stars are assigned unique numbers also. The star's name, birthplace, year of birth and year of death (if applicable) are known, as well as the role(s) the star played in various movies.

Every customer has a unique number. Names and addresses of customers are stored in the database, as well as the number of rentals the customer has made, the number of bonus units the customer is entitled to (one for every 10 rentals) and the date of joining the club.

There may be several copies of a movie in the video club. Every DVD has its code (unique). It is known which movie a DVD contains, when it was purchased, how many times it was rented and which customer currently has it (if appropriate).

Relational schema for the MOVIES database

MOVIE (NUMBER, TITLE, TYPE, AANOM, AAWON, CRITICS, YEAR, DIRECTOR)

DIRECTOR (NUMBER, LNAME, FNAME, BORN, DIED)

CUSTOMER (NUMBER, FNAME, LNAME, ADDRESS, RENTALS, BONUS, JDATE)

STAR (NUMBER, LNAME, FNAME, CITY, BORN, DIED)

DVD (CODE, PDATE, MOVIE, TIMES, CUSTOMER, HIREDATE)

STARS (MOVIE, STAR, ROLE)

