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CMPT 308: Database Systems
Lab 8: Normalization Two

Anctor Data
Name, address, birth date, hair color, eye color, height in inches, weight, spouse name, favorite color, screen actors guild anniversary date

Movie Data
Name, year released, MPAA number, domestic box office sales, foreign box office sales, DVD/Blu-ray sales

Director Data
Name, address, spouse name, film school attended, director's guild anniversary date, favorite lens maker

Boyce-Codd Normal Form (BCNF):
- Values should be atomic (1NF)
- Records should not depend on anything other than a table's primary key (2NF)
- Values in a record that are not part of that record's key do not belong in the table (3NF)
- *Super key is a determinant: an attribute on which some other attribute is fully functionally dependent. A relation is in BCNF if every determinant is a candidate key*

All SQL data can be found in Github Database Management repository. See ERD below.
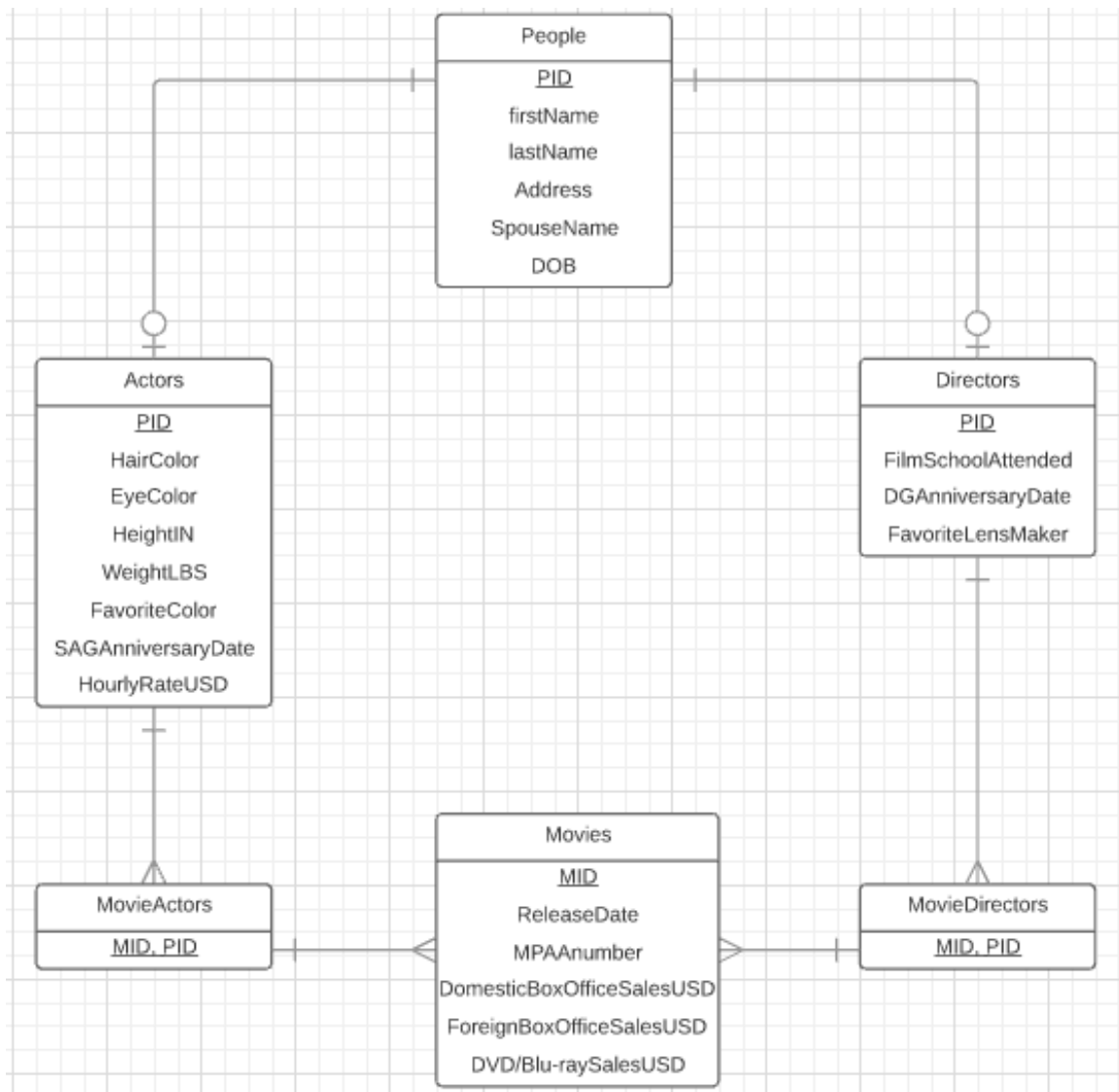
Functional Dependencies: a relationship that exists when one attribute uniquely determines another attribute.
** Underlined means primary key

People table: <u>PID</u> will show the person's *firstName, lastName, Address, SpouseName, & DOB*

Actors table: <u>PID</u> will show the actor's *HairColor, EyeColor, HeightIN, WeightLBS, FavoriteColor, SAGAnniversaryDate, & HourlyRateUSD*

Directors table: <u>PID</u> will show the director's *FilmSchoolAttended, DGAnniversaryDate, & FavoriteLensMaker*

Movies table: <u>MID</u> will show the movie's *ReleaseDate, MPAAnumber, DomesticBoxOfficeSalesUSD, ForeignBoxOfficeSalesUSD, & DVD/Blu-raySalesUSD*

MovieActors Table: <u>MID, PID</u>

MovieDirectors Table: <u>MID, PID</u>