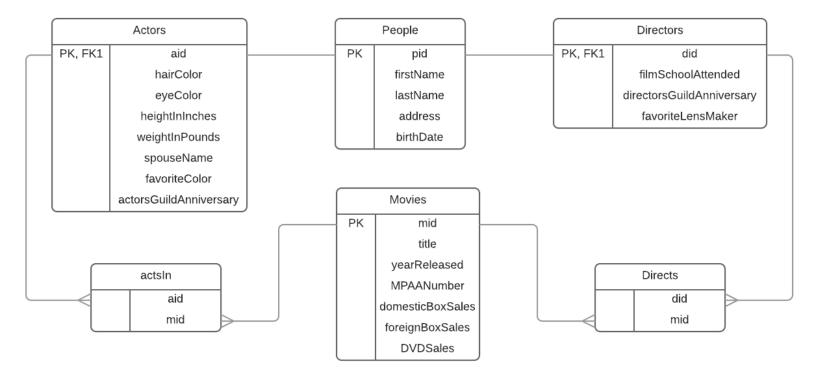
## **Lab Eight: Normalization Two**



## DROP TABLE IF EXISTS People, Actors, Directors, Movies, ActsIn, Directs

```
-- People --
CREATE TABLE People (
 pid
               bigserial not null,
               text not null,
 firstName
 lastName
               text not null,
 address
               text.
 birthDate
               date, -- YYYY-MM-DD
);
-- Actors --
CREATE TABLE Actors (
 aid int references people(pid),
 hairColor
                             text.
 eyeColor
                             text,
 heightInInches
                      decimal(2,2),
 weightInPounds
                      decimal(3,2),
 spouseName
                      text,
 favoriteColor
                      text,
 actorsGuildAnniversary date,
primary key(pid)
);
```

```
-- Directors --
CREATE TABLE Directors (
 did int references people(pid) not null,
 firstName
                                     text not null,
 lastName
                                     text not null,
 filmSchoolAttended
                              text),
 directorsGuildAnniversary
                             text,
 favoriteLensMaker
                                     text,
 primary key(pid)
);
-- Movies --
CREATE TABLE Movies (
                             bigserial not null,
 mid
 title
                             text not null,
 yearReleased
                             year not null,
 MPAANumber
                             int,
 domesticBoxSales int,
 foreignBoxSales int,
 DVDSales
                      int.
 primary key(mid)
-- actsIn --
CREATE TABLE ActsIn (
 pid not null references agents(pid),
 mid not null references movies(mid)
);
-- Directs --
CREATE TABLE Directs (
 pid not null references directors(pid),
 mid not null references movies(mid)
);
-- Dependencies --
pid -> firstName
pid ->lastName
pid -> address
pid -> birthDate
aid -> hairColor
aid -> eyeColor
aid -> heightInInches
aid -> weightInPounds
aid -> spouseName
aid -> favoriteColor
aid -> actorsGuildAnnivresary
did -> filmSchoolAttended
did -> directorsGuildAnniversary
did -> favoireLensMaker
mid -> title
```

Andrew Bauman 11/13/17 CMPT 308: Database Management Prof. A. Labouseur

mid -> yearRelease mid -> MPAANumber mid -> domesticBoxSales mid -> foreignBoxSales mid -> DVDSales

--- Query: Show all the directors with whom actor "Roger Moore" has worked -SELECT DISTINCT people.\*
FROM people, movies, directors, directs
WHERE people.pid = directors.did
AND directors.did = directs.did
and directs.mid in (SELECT DISTINCT movies.mid
FROM people, movies, actors, actsIn
WHERE people.firstName = 'Roger'
AND people.lastName = 'Moore'
AND people.pid = actors.aid
AND actors.aid = actsIn.aid
);