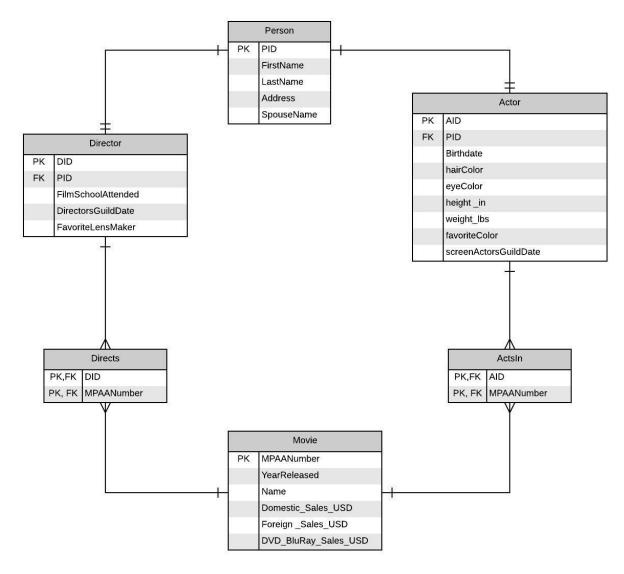
Mackenzie O'Brien Lab 8



2. Create Statements

```
DROP TABLE IF EXISTS Person;
DROP TABLE IF EXISTS Actor;
DROP TABLE IF EXISTS Director;
DROP TABLE IF EXISTS ActsIn;
DROP TABLE IF EXISTS Directs;
DROP TABLE IF EXISTS Movie;
```

```
CREATE TABLE Person (
PID char(4) not null,
FirstName text not null,
LastName text not null,
```

```
Address text,
  SpouseName text,
  primary key(PID)
);
CREATE TABLE Actor(
  AID char(4) not null,
  PID char(4) not null references Person(PID),
  Birthdate date not null,
  hairColor text not null.
  eyeColor text not null,
  height in integer not null,
  weight lbs integer not null,
  favoriteColor text,
  screenActorsGuildDate date,
  primary key(AID)
);
CREATE TABLE Director(
  DID char(4) not null,
  PID char(4) not null references Person(PID),
  FilmSchoolAttended text,
  DirectorsGuildDate date.
  FavoriteLensMaker text,
  primary key (DID)
);
CREATE TABLE Movie(
  MPAANumber int not null,
  Name text not null.
  YearReleased int not null,
  Domestic Sales USD int,
  Foreign_Sales_USD int,
  DVD BluRay Sales USD int,
  primary key (MPAANumber)
);
CREATE TABLE ActsIn(
  AID char(4) not null references Actor(AID),
  MPAANumber int not null references Movie (MPAANumber),
  primary key (AID, MPAANumber)
);
CREATE TABLE Directs (
  DID char(4) not null references Director(DID),
```

```
MPAANumber int not null references Movie (MPAANumber),
  primary key (DID, MPAANumber)
);
3. Functional Dependencies
     Person
          ○ PID→ FirstName, LastName, Address, SpouseName
     Actor
          o PID→AID
          o AID→Birthdate, hairColor, eyeColor, height in, weight lbs, favoriteColor,
             ScreenActorsGuildDate

    Director

          o PID→DID
          o DID→FilmSchoolAttended, DirectorsGuildDate, FavoriteLensMaker

    ActsIn

          ○ MPAANumber → AID
     Directs
          ○ MPAANumber → DID

    Movie

          o MPAANumber → Name, YearReleased, Domestic Sales USD,
             Foreign_Sales_USD, DVD_BluRay_Sales_USD
4. Query for Sean Connery
select * from Person
where PID in (select PID
       from Director
       where DID in (select DID
              from Directs
              where MPAANumber in (select MPAANumber
                        from ActsIn
                        where AID in (select AID
                               from Actor
                               where PID in (select PID
                                      from Person
                                      where FirstName='Sean' and LastName='Connery'
                               )
                        )
              )
```

);