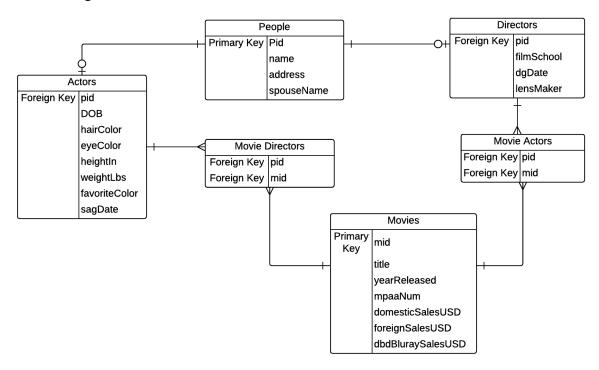
1. ER Diagram



2. SQL create statements:

```
create table people(
pid
            TEXT NOT NULL PRIMARY KEY
name
            TEXT
address
            TEXT
spouseNAME TEXT
);
create table actors(
                  TEXT NOT NULL REFERENCES people(pid)
      pid
      DOB
                  DATE
      hairColor
                  TEXT
      eyeColor
                  TEXT
      heightIn
                  INT
      weightLbs
                  INT
      favoriteColor TEXT
      sagDate
                  DATE
);
```

```
create table movies(
      mid
                          TEXT NOT NULL PRIMARY KEY
      title
                          TEXT NOT NULL
      yearReleased
                          INT
      mpaaNum
                          INT
      domesticSalesUSD
                          FLOAT
      foreignSalesUSD
                          FLOAT
      dvdBluraySalesUSD FLOAT
);
create table directors(
      pid
                   TEXT NOT NULL REFERENCES people(pid)
      filmSchool
                   TEXT
      dgDate
                   DATE
      lensMaker
                   TEXT
);
create table movieDirectors(
      mid
                          TEXT NOT NULL REFERENCES movies(mid)
      pid
                          TEXT NOT NULL REFERENCES people (pid)
      primary key (mid, pid)
);
create table movieActors(
      mid
                          TEXT NOT NULL REFERENCES movies(mid)
      pid
                          TEXT NOT NULL REFERENCES people (pid)
      primary key (mid, pid)
);
3. Functional Dependencies:
(People) pid \rightarrow (name, address, spouseName)
(Actors) pid → (DOB, hairColor, eyeColor, heightIn, weightLbs, favoriteColor, sagDate)
(Directors) pid → (filmSchool, dgDate, lensMaker)
\rightarrow (name, yearReleased, mpaaNum, domesticSalesUSD, foreignSalesUSD,
dvdBluraySalesUSD)
```

4. Query:

SELECT directors.name

FROM Directors d INNER JOIN movieDirectors ON d.pid = movieDirectors.pid WHERE mid in (SELECT mid

FROM movieDirectors c INNER JOIN People p ON p.pid = movieActors.pid WHERE name = "Sean Connery");