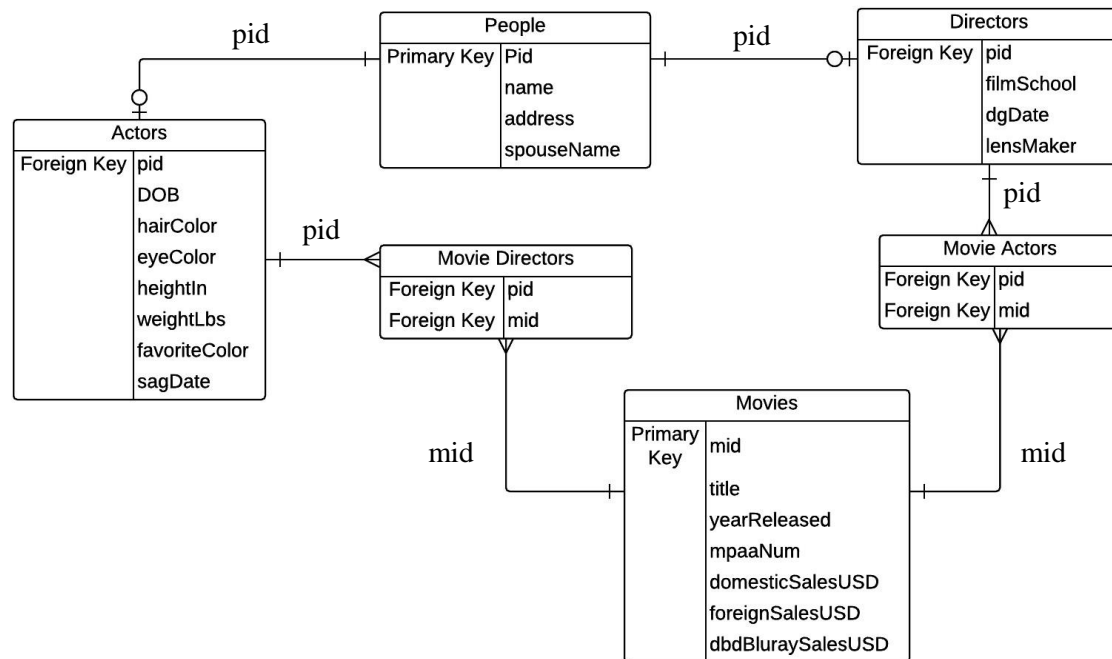


Jenna Ficula  
Lab 8

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(
pid          TEXT NOT NULL REFERENCES people(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  $\rightarrow$  (DOB, hairColor, eyeColor, heightIn, weightLbs, favoriteColor, sagDate)

(Directors) pid  $\rightarrow$  (filmSchool, dgDate, lensMaker)

mid  $\rightarrow$  (title, 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");
```