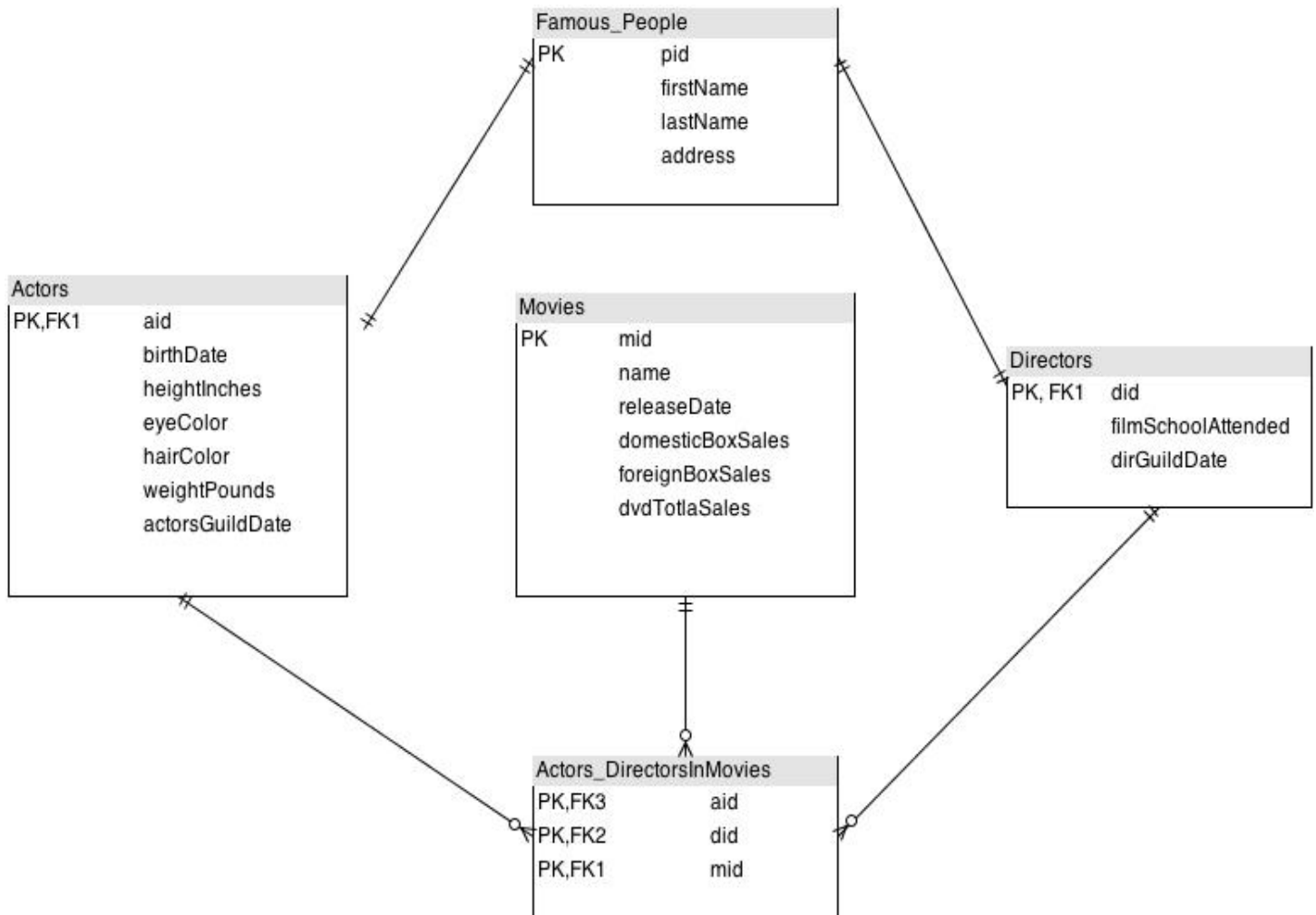Skylar Senning
Database Management
Normalization 2

Famous People Table

```
drop table if exists famous_people;
create table famous_people (
        pid int          NOT NULL,
        firstName    char(20) NOT NULL,
        lastName     char(20) NOT NULL,
        address      varchar(80)NOT NULL,
primary key (pid)
);
```

Movie Table:

```
drop table if exists movies;
create table movies (
        mid                     int NOT NULL,
        mName                   char(50) NOT NULL,
        releaseDate             char(4) NOT NULL,
        domesticBoxSalesUSD     int NOT NULL,
        foreignBoxSalesUSD int NOT NULL,
        dvdTotalSalesUSD    int NOT NULL,
primary key(mid)
);
```

Actor Table:

```
drop table if exists actors;
create table actors (
        aid                 int not null references famous_people(pid),
        birthDate           date NOT NULL,
        heightInches        int NOT NULL,
        hairColor           char(30) NOT NULL,
        eyeColor            char(30) NOT NULL,
        weightPounds            int NOT NULL,
        actorsGuildDate     date NOT NULL,
primary key (aid)
);
```

Director Table:
```
drop table if exists directors;
create table directors (
        did                 int not null references famous_people(pid),
        filmSchoolAttended  text NOT NULL,
        dirGuildDate        date NOT NULL,
primary key (did)
);
```

Actors & Directors In Movies Table:

```
drop table if exists actors_dirrectorsInMovies;
create table actors_dirrectorsInMovies (
        aid     int not null references actors(aid),
        did     int not null references directors(did),
        mid     int not null references movies(mid),
primary key (aid,did,mid)
);
```

<u>Inserts:</u>

INSERT INTO famous_people (pid, firstName, lastName, address)
       values ('001', 'Skylar', 'Senning', '41 River Road, Essex, CT')
INSERT INTO famous_people (pid, firstName, lastName, address)
       values ('002', 'Sean', 'Connery', '2000 Avenue of the Stars Los Angeles, CA')
INSERT INTO famous_people (pid, firstName, lastName, address)
       values ('003', 'Micheal', 'Bay', '3000 Avenue of the Stars Los Angeles, CA')

Select * from famous_people

INSERT INTO movies (mid, mName, releaseDate , domesticBoxSalesUSD,
foreignBoxSalesUSD, dvdTotalSalesUSD)
       values ('001', 'Cast Away', '2000', '300000000', '10000000', '20000000')
INSERT INTO movies (mid, mName, releaseDate , domesticBoxSalesUSD,
foreignBoxSalesUSD, dvdTotalSalesUSD)
       values ('002', 'Goldfinger', '1964', '50000000', '50000000', '30000000')
INSERT INTO movies (mid, mName, releaseDate , domesticBoxSalesUSD,
foreignBoxSalesUSD, dvdTotalSalesUSD)
       values ('003', 'Transformers', '2007', '400000000', '300000000',
'200000000')

Select * from movies

INSERT INTO actors(aid, birthDate, heightInches, hairColor, eyeColor,
weightPounds, actorsGuildDate)
       values ('001', '06/02/1994', '74', 'Brown', 'Brown', '190', '09/12/2010')
INSERT INTO actors(aid, birthDate, heightInches, hairColor, eyeColor,
weightPounds, actorsGuildDate)
       values ('002', '08/25/1930', '70', 'White', 'Brown', '170', '09/12/1980')

Select * from actors

INSERT INTO directors(did, filmSchoolAttended, dirGuildDate)
       values('001', 'American Film Institute', '10/12/2013')
INSERT INTO directors(did, filmSchoolAttended, dirGuildDate)
       values('002', 'California Institute of the Arts', '09/06/1990')
INSERT INTO directors(did, filmSchoolAttended, dirGuildDate)
       values('003', 'Art Center College of Design', '10/12/2013')

Select * from directors

INSERT INTO actors_dirrectorsInMovies (aid, did, mid)
        values ('002','002','002')
INSERT INTO actors_dirrectorsInMovies (aid, did, mid)
        values ('001','003','001')
INSERT INTO actors_dirrectorsInMovies (aid, did, mid)
        values ('002','003','003')

Select * from actors_dirrectorsInMovies

Dependencies:
Famous_People – pid → fName , lName, Address
Directors: did→ filmSchoolAttended, dirGuildDate
Actors: aid → birthDate, heightInches, hairColor, eyeColor, weightPounds,
                actorsGuildDate
Movies: mid → mName, releaseDate , domesticBoxSalesUSD, foreignBoxSalesUSD,
                dvdTotalSalesUSD
Actors_DirrectorsInMovies: (aid, did, pid) →

Query:
-This Query returns all the directors with whom actor "Sean Connery" has worked.

SELECT distinct p2.pid, p2.firstName, p2.lastName
FROM   actors a,
              directors d,
              actors_dirrectorsInMovies ad,
              famous_people p1,
              famous_people p2
WHERE p1.pid = a.aid
AND a.aid = ad.aid
AND p2.pid = d.did
AND d.did = ad.did
AND p1.lastName = 'Connery'
AND p1.firstName = 'Sean'