```
CREATE TABLE "FilmArtists" (
  "fid" INT  NOT NULL,
  "name" VARCHAR(30) NOT NULL,
  "address" VARCHAR(30)  NOT NULL,
  "spouseName" VARCHAR(30),
  PRIMARY KEY (fid)
);

CREATE TABLE "Actor" (
  "aid" INT  NOT NULL,
  "fid" INT REFERENCES FilmArtists(fid) NOT NULL,
  "birthDate" DATE,
  "hairColor" VARCHAR(30),
  "eyeColor" VARCHAR(30),
  "height" VARCHAR(30),
  "weightInLBS" DECIMAL(3,2),
  "favoriteColor" VARCHAR(30),
  "screenActorsGuildAnniDate" DATE,
  PRIMARY KEY (aid)
);

CREATE TABLE "Director" (
  "did" INT NOT NULL,
  "fid" INT REFERENCES FilmArtists(fid) NOT NULL,
  "filmSchool" VARCHAR(30),
  "directorsGuildAnniDate" DATE,
  "favLensMaker" VARCHAR(30),
  PRIMARY KEY (did)
);

CREATE TABLE "Movies" (
  "MPAA" INT  NOT NULL,
  "did" INT REFERENCES Director(did) NOT NULL,
  "aid" INT REFERENCES Actor(aid) NOT NULL,
  "title" VARCHAR(30),
  "yearReleased" NUMERIC(4),
  "domesticOfficeSales" NUMERIC(10,2),
  "foreignOfficeSales" NUMERIC(10,2),
  "DVDblueRaySales" NUMERIC(10,2),
  PRIMARY KEY (MPAA)
);
```

Functional Dependencies

FilmArtists - name, address, and spouseName are all dependent on the fid (FilmArtist ID).

Director - filmSchool, directorsGuildAnniDate, and favLensMaker are dependent on the did (Director ID).

Actor - birthDate, hairColor, eyeColor, height, weight, favoriteColor, and screenActorsGuildAnniDate are dependent on the aid (Actor ID).

Movies - title, yearReleased, domesticOfficeSales, foreignOfficeSales, and DVDblueRaySales are dependent on the MPAA.

Query

```
SELECT name
FROM FilmArtists
WHERE fid IN (SELECT fid
              FROM Director
              WHERE did IN (SELECT did
                            FROM Movies
                            WHERE aid IN (SELECT aid
                                          FROM Actor
                                          WHERE fid IN (SELECT fid
                                                        FROM FilmArtists
                                                        WHERE name =
                                                        'Keanu Reeves'))));
```

MOVIES ER DIAGRAM

FilmArtists
- fid
- name
- address
- spouseName

Director
- did
- fid
- filmSchool
- directorsGuildAnniDate
- favLensMaker

Actor
- aid
- fid
- birthDate
- hairColor
- eyeColor
- height
- weight
- favoriteColor
- screenActorsGuildAnniDate

Movies
- MPAA
- did
- aid
- title
- yearReleased
- domesticOfficeSales
- foreignOfficeSales
- DVDblueRaySales

Stephen Bohner | April 14, 2016