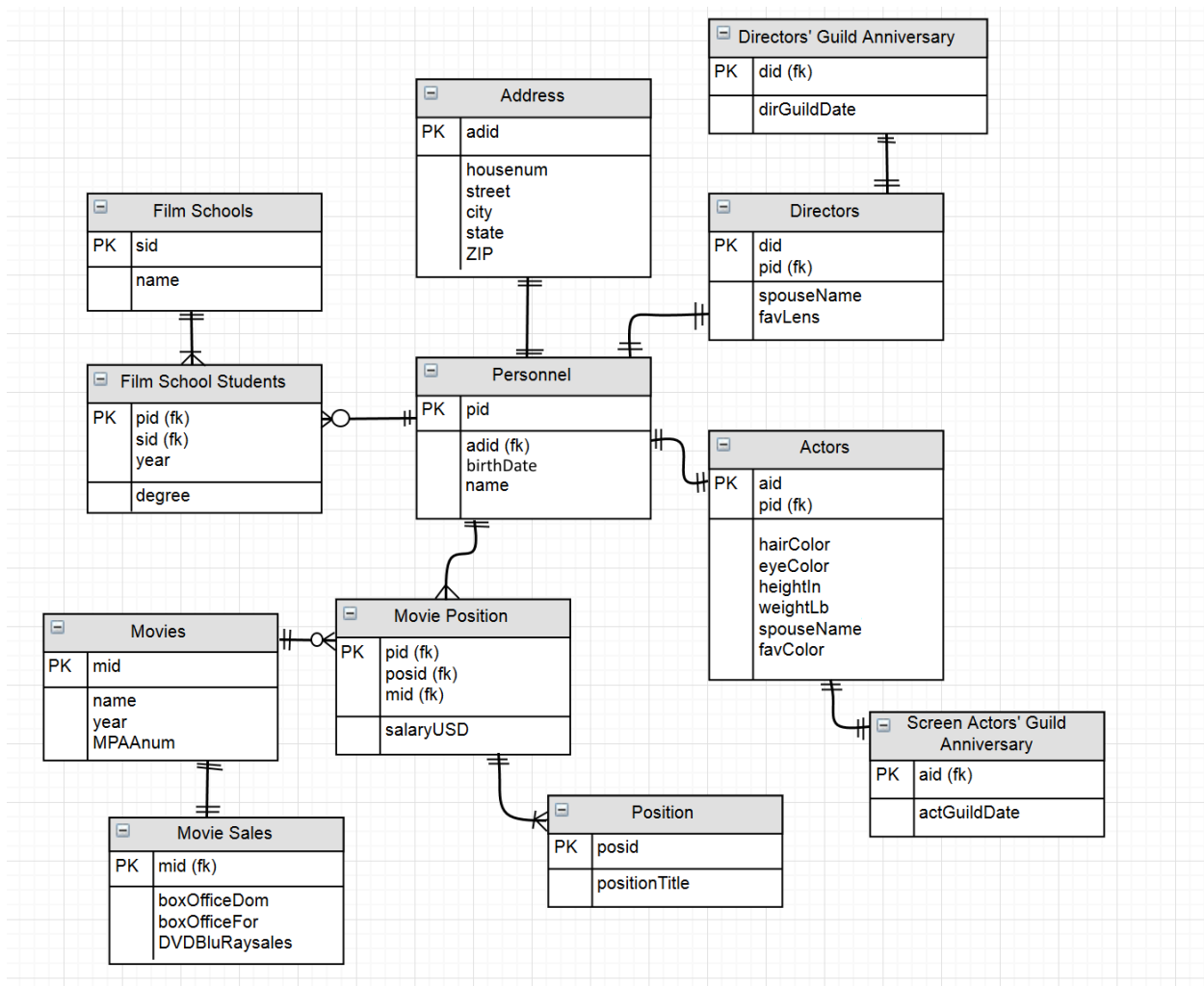


1.



2.

```

--Address
DROP TABLE IF EXISTS Address;
CREATE TABLE Address (
    adid          char(4) not null,
    housenum      int not null,
    street        varchar(255) not null,
    city          varchar(48) not null,
    state         varchar(24) not null,
    ZIP          int not null,
    primary key(adid)
);

--Personnel
DROP TABLE IF EXISTS Personnel;
CREATE TABLE Personnel (

```

```

    pid            char(4) not null
    adid           char(4) not null references Address(adid),
    birthdate      date not null,
    name           varchar(48),
    primary key(pid)
);

--Actors
DROP TABLE IF EXISTS Actors;
CREATE TABLE Actors (
    pid            char(4) not null references Personnel(pid),
    aid           char(4) not null,
    hairColor      varchar(24) not null,
    eyeColor       varchar(24) not null,
    heightIn       real not null,
    weightLb       real not null,
    spouseName     varchar(48) not null,
    favColor       varchar(24) not null,
    primary key(pid,aid)
);

--Directors
DROP TABLE IF EXISTS Directors;
CREATE TABLE Directors (
    pid            char(4) not null references Personnel(pid),
    did           char(4) not null,
    spouseName     varchar(48) not null,
    favLens        varchar(24) not null,
    primary key(pid,did)
);

--Screen Actors' Guild Anniversary
DROP TABLE IF EXISTS ActGuildAnniversary;
CREATE TABLE ActGuildAnniversary (
    aid           char(4) not null references Actors(aid),
    actGuildDate   date not null,
    primary key(aid)
);

--Directors' Guild Anniversary
DROP TABLE IF EXISTS DirGuildAnniversary;
CREATE TABLE DirGuildAnniversary (
    did           char(4) not null references Directors(did),
    dirGuildDate   date not null,
    primary key(did)
);

--Film Schools
DROP TABLE IF EXISTS FilmSchools;
CREATE TABLE FilmSchools (
    sid           char(4) not null,
    name           varchar(24) not null,

```

```

    primary key(sid)
);

--Film School Students
DROP TABLE IF EXISTS FilmStudents;
CREATE TABLE FilmStudents (
    pid          char(4) not null references Personnel(pid),
    sid          char(4) not null references FilmSchools(sid),
    year         int not null,
    degree       varchar(24) not null,
    primary key(pid,sid,year)
);

--Movies
DROP TABLE IF EXISTS Movies;
CREATE TABLE Movies (
    mid          char(4) not null,
    name         varchar(48) not null,
    year         int not null,
    MPAAAnum     int not null,
    primary key(mid)
);

--Position
DROP TABLE IF EXISTS Position;
CREATE TABLE Position (
    posid        char(4) not null,
    positionTitle varchar(24) not null,
    primary key(posid)
);

--Movie Position
DROP TABLE IF EXISTS MoviePosition;
CREATE TABLE MoviePosition (
    pid          char(4) not null references Personnel(pid),
    posid        char(4) not null references Position(posid),
    mid          char(4) not null references Movies(mid),
    salaryUSD    real not null,
    primary key(pid,posid,mid)
);

--Movie Sales
DROP TABLE IF EXISTS MovieSales;
CREATE TABLE MovieSales (
    mid          char(4) not null references Movies(mid),
    boxOfficeDom real not null,
    boxOfficeFor real not null,
    DVDBluRaysales real not null,
    primary key(mid)
);

```

3. Address: adid → housenum, street, city, state, ZIP
 Personnel: pid → birthDate, name
 Actors: aid → hairColor, eyeColor, heightIn, weightLb, spouseName, favColor
 Directors: did → spouseName, favLens
 Screen Actors' Guild Anniversary: aid → actGuildDate
 Directors' Guild Anniversary: did → dirGuildDate
 Film Schools: sid → name
 Film Students: (pid, sid, year) → degree
 Movies: mid → name, year, MPAAAnum
 Position: posid → positionTitle
 Movie Position: (pid, posid, mid) → salaryUSD
 Movie Sales: mid → boxOfficeDom, boxOfficeFor, DVDBluRaysales

4.

```
SELECT name
FROM Personnel
WHERE pid IN (SELECT pid
              FROM MoviePosition
              WHERE posid IN (SELECT posid
                             FROM Position
                             WHERE positionTitle = 'Director'
                             )
              AND mid IN (SELECT MID
                         FROM MoviePosition
                         WHERE pid IN (SELECT pid
                                       FROM Personnel
                                       WHERE name = 'Sean Connery'
                                       )
                         )
              )
);
```