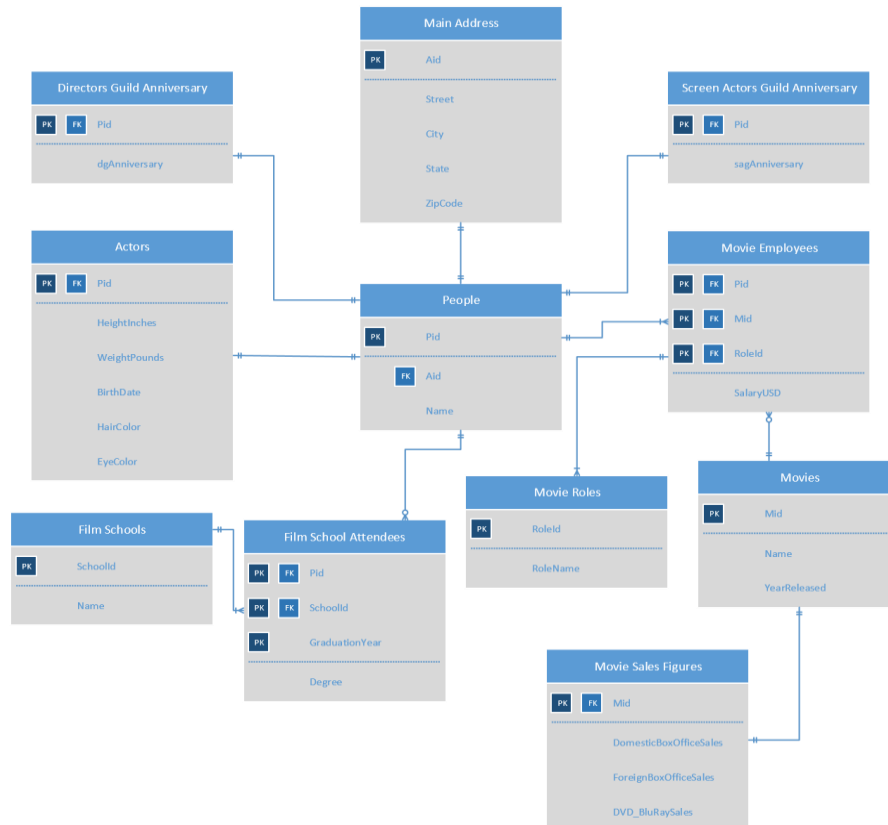


Kevin Bruce
 Normalization 2
 11/30/2014

1.



2. --People --

```

DROP TABLE IF EXISTS people; CREATE
TABLE people (
  pid      char(4) not null,
  aid      char(4) not null references mainAddress(aid),
  name     varchar(48), primary key(pid)
);
  
```

--Main Address --

```

DROP TABLE IF EXISTS mainAddress;
CREATE TABLE mainAddress (  aid
char(4) not null,  street
varchar(255) not null,
  
```

```
    city      varchar(48) not null,  
    state     varchar(24) not null,  
    zipCode   int not null, primary  
    key(aid)  
);
```

-- Actors --

```
DROP TABLE IF EXISTS actors; CREATE  
TABLE actors (  
    pid          char(4) not null references people(pid),  
    heightInches real not null, weightPounds real not  
    null, birthDate date not null, hairColor  
    varchar(24) not null, eyeColor      varchar(24) not  
    null, primary key(pid)  
);
```

-- Screen Actors Guild Anniversary -- DROP

```
TABLE IF EXISTS sagAnniversary; CREATE  
TABLE sagAnniversary (  
    pid          char(4) not null references people(pid),  
    sagAnniversaryDate date not null, primary key(pid)  
);
```

-- Directors Guild Anniversary -- DROP

```
TABLE IF EXISTS dgAnniversary;  
CREATE TABLE dgAnniversary (  
    pid          char(4) not null references people(pid),  
    dgAnniversaryDate date not null, primary key(pid)  
);
```

-- Film Schools --

```
DROP TABLE IF EXISTS filmSchools;  
CREATE TABLE filmSchools (  
    schoolId char(4) not null, name  
    varchar(255) not null, primary  
    key(schoolId)  
);
```

-- Film School Attendees --

```
DROP TABLE IF EXISTS filmSchoolAttendees; CREATE  
TABLE filmSchoolAttendees (
```

```

    pid          char(4) not null references people(pid), schoolId
char(4) not null references filmSchools(schoolId), graduationYear
int not null, degree          varchar(24) not null,
primary key(pid,schoolId,graduationYear)
);

```

-- Movie Employees --

```

DROP TABLE IF EXISTS movieEmployees; CREATE
TABLE movieEmployees (
    pid          char(4) not null references people(pid), mid
char(4) not null references movies(mid), roleId
char(4) not null references movieRoles(roleId), salaryUSD
real not null, primary key(pid,mid,roleId)
);

```

-- Movies --

```

DROP TABLE IF EXISTS movies; CREATE
TABLE movies (
    mid          char(4) not null,
name           char(255) not null,
yearReleased   int not null, primary
key(mid)
);

```

-- Movie Roles --

```

DROP TABLE IF EXISTS movieRoles; CREATE
TABLE movieRoles (
    roleId       char(4) not null,
roleName       char(255) not null, primary
key(roleId)
);

```

-- Movie Sales Figures --

```

DROP TABLE IF EXISTS movieSalesFigures; CREATE
TABLE movieSalesFigures (
    mid          char(4) not null references movies(mid),
domesticBoxOfficeSales real not null, foreignBoxOfficeSales real not null,
DVD_BluRaySales      real not null, primary key(mid)
);

```

3. --People

```
INSERT INTO people( pid, aid, name )
VALUES('p001' , 'a001', 'Sean Connery');
```

```
INSERT INTO people( pid, aid, name )
VALUES('p002' , 'a002', 'Ben Affleck');
```

```
INSERT INTO people( pid, aid, name )
VALUES('p003' , 'a003', 'Irvin Kershner');
```

```
INSERT INTO people( pid, aid, name )
VALUES('p004' , 'a004', 'Steven Spielberg');
```

```
INSERT INTO people( pid, aid, name )
VALUES('p005' , 'a005', 'Micheal Bay');
```

```
INSERT INTO people( pid, aid, name )
VALUES('p006' , 'a002', 'Matt Damon');
```

--Main Address

```
INSERT INTO mainAddress( aid, street, city, state, zipCode )
VALUES('a001' , '1108 Eighth Street', 'Tampa', 'FL', 33604);
```

```
INSERT INTO mainAddress( aid, street, city, state, zipCode )
VALUES('a002' , '510 Keith Avenue', 'Chestnut Hill', 'MA', 12467);
```

```
INSERT INTO mainAddress( aid, street, city, state, zipCode )
VALUES('a003' , '30572 Southfield Road', 'Downingtown', 'PA', 19335);
```

```
INSERT INTO mainAddress( aid, street, city, state, zipCode )
VALUES('a004' , '280 Water Street', 'Seattle', 'WA', 98106);
```

```
INSERT INTO mainAddress( aid, street, city, state, zipCode )
VALUES('a005' , '23 Hart Drive', 'South Orange', 'NJ', 17079);
```

--Actors

```
INSERT INTO actors( pid, heightInches, weightPounds, birthDate, hairColor, eyeColor )
VALUES('p001' , 75, 220, '8-25-1930', 'grey', 'brown');
```

```
INSERT INTO actors( pid, heightInches, weightPounds, birthDate, hairColor, eyeColor )  
VALUES('p002' , 73, 210, '8-15-1972', 'brunette', 'brown');
```

--Screen Actors Guild Anniversary

```
INSERT INTO sagAnniversary( pid, sagAnniversaryDate )  
VALUES('p002' , '03-08-1998');
```

--Directors Guild Anniversary

```
INSERT INTO dgAnniversary( pid, dgAnniversaryDate )  
VALUES('p002' , '01-25-2013');
```

```
INSERT INTO dgAnniversary( pid, dgAnniversaryDate )  
VALUES('p004' , '01-28-1976');
```

```
INSERT INTO dgAnniversary( pid, dgAnniversaryDate )  
VALUES('p005' , '01-27-1995');
```

--Film Schools

```
INSERT INTO filmSchools( schoolId, name )  
VALUES('s001' , 'University of Southern California');
```

```
INSERT INTO filmSchools( schoolId, name )  
VALUES('s002' , 'Art Center College of Design');
```

```
INSERT INTO filmSchools( schoolId, name )  
VALUES('s003' , 'California State University');
```

--Film School Attendees

```
INSERT INTO filmSchoolAttendees( pid, schoolId, graduationYear, degree )  
VALUES('p003' , 's001', 1950, 'bachelors');
```

```
INSERT INTO filmSchoolAttendees( pid, schoolId, graduationYear, degree )  
VALUES('p004' , 's003', 1964, 'bachelors');
```

```
INSERT INTO filmSchoolAttendees( pid, schoolId, graduationYear, degree )  
VALUES('p005' , 's002', 1984, 'masters');
```

--Movie Employees

```
INSERT INTO movieEmployees( pid, mid, roleId, salaryUSD )  
VALUES('p002' , 'm001', 'r001', 6000000);
```

```
INSERT INTO movieEmployees( pid, mid, roleId, salaryUSD )  
VALUES('p003' , 'm001', 'r002', 7000000);
```

```
INSERT INTO movieEmployees( pid, mid, roleId, salaryUSD )  
VALUES('p002' , 'm002', 'r002', 8000000);
```

```
INSERT INTO movieEmployees( pid, mid, roleId, salaryUSD )  
VALUES('p006' , 'm002', 'r001', 6000000);
```

```
INSERT INTO movieEmployees( pid, mid, roleId, salaryUSD )  
VALUES('p001' , 'm003', 'r001', 5000000);
```

```
INSERT INTO movieEmployees( pid, mid, roleId, salaryUSD )  
VALUES('p001' , 'm004', 'r001', 6000000);
```

```
INSERT INTO movieEmployees( pid, mid, roleId, salaryUSD )  
VALUES('p001' , 'm005', 'r001', 15000000);
```

```
INSERT INTO movieEmployees( pid, mid, roleId, salaryUSD )  
VALUES('p003' , 'm003', 'r002', 1000000);
```

```
INSERT INTO movieEmployees( pid, mid, roleId, salaryUSD )  
VALUES('p004' , 'm004', 'r002', 5000000);
```

```
INSERT INTO movieEmployees( pid, mid, roleId, salaryUSD )  
VALUES('p005' , 'm005', 'r002', 2000000);
```

--Movies

```
INSERT INTO movies( mid, name, yearReleased )  
VALUES('m001' , 'Pearl Harbor', 2001);
```

```
INSERT INTO movies( mid, name, yearReleased )  
VALUES('m002' , 'Argo', 2012);
```

```
INSERT INTO movies( mid, name, yearReleased )
```

```
VALUES('m003' , 'Never Say Never Again', 1983);
```

```
INSERT INTO movies( mid, name, yearReleased )  
VALUES('m004' , 'Indiana Jones and the Last Crusade', 1989);
```

```
INSERT INTO movies( mid, name, yearReleased ) VALUES('m005' , 'The Rock', 1996);
```

--Movie Roles

```
INSERT INTO movieRoles( roleId, roleName )  
VALUES('r001' , 'actor');
```

```
INSERT INTO movieRoles( roleId, roleName )  
VALUES('r002' , 'director');
```

--Movie Sales

```
INSERT INTO movieSales( mid, domesticBoxOfficeSales, foreignBoxOfficeSales, DVD_BluRaySales  
)  
VALUES('m001' , 198539855 , 250700000, 5000000);
```

```
INSERT INTO movieSales( mid, domesticBoxOfficeSales, foreignBoxOfficeSales, DVD_BluRaySales  
)  
VALUES('m002' , 136025503, 85275191, 19442136);
```

```
INSERT INTO movieSales( mid, domesticBoxOfficeSales, foreignBoxOfficeSales, DVD_BluRaySales  
)  
VALUES('m003' , 55500000, 90000000, 8306014);
```

```
INSERT INTO movieSales( mid, domesticBoxOfficeSales, foreignBoxOfficeSales, DVD_BluRaySales  
)  
VALUES('m004' , 197171806, 277000000, 22874105);
```

```
INSERT INTO movieSales( mid, domesticBoxOfficeSales, foreignBoxOfficeSales, DVD_BluRaySales  
)  
VALUES('m005' , 134069511, 202000000, 0);
```

4. People: Pid → Aid, Name

Main Address: Aid → Street, City, State, ZipCode

Actors: Pid → HeightInches, WeightPounds, BirthDate, HairColor, EyeColor

Screen Actors Guild Anniversary: Pid → SagAnniversary

Directors Guild Anniversary: Pid → DgAnniversary

Film Schools: SchoolId → Name

Film School Attendees: Pid, SchoolId, GraduationDate → Degree

Movie Employees: Pid, Mid, RoleId → SalaryUSD

Movies: Mid → Name, YearReleased

Movie Roles: RoleId → RoleName

Movie Sales Figures: Mid → DomesticBoxOfficeSales, ForeignBoxOfficeSales, DVD_BluRaySales

```

5.      select name from people where pid in ( select
      pid          from movieEmployees
      where roleId in ( select roleId
      from movieRoles          where
      roleName = 'director'

      )

      and mid in ( select mid
      from movieEmployees
      where pid in ( select pid
      from people

      where name = 'Sean Connery'

      )

      )

      )

```