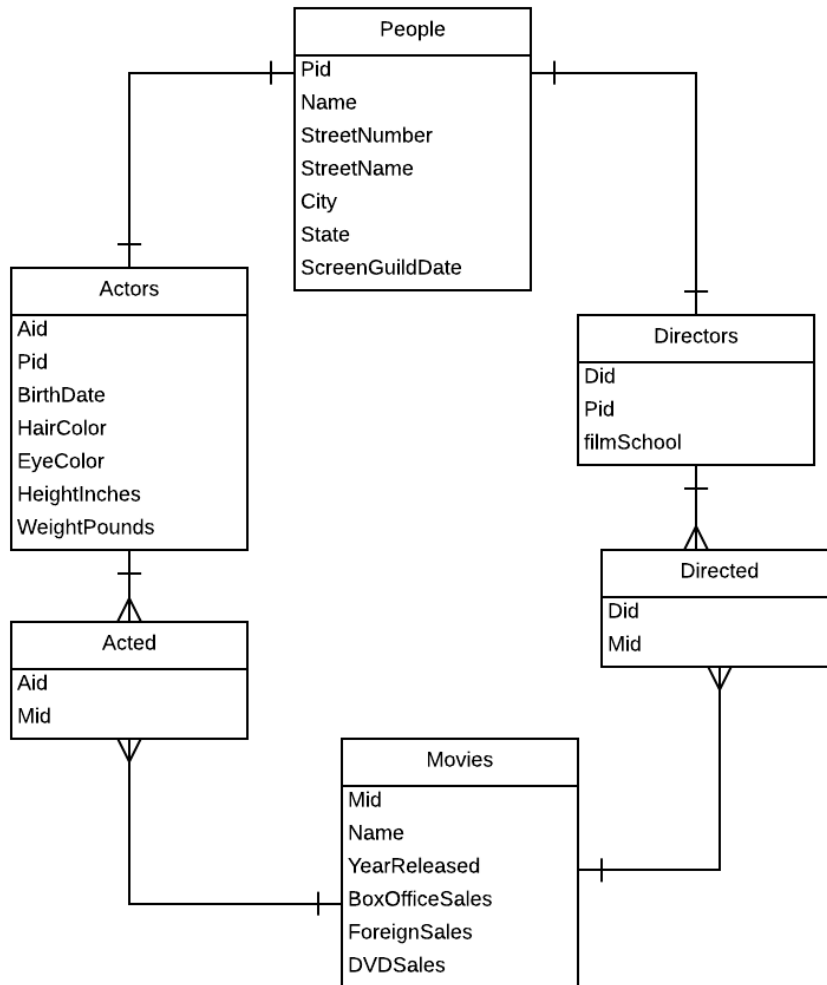


Kimberly Tobias  
Assignment 8  
Due November 10



### Functional Dependencies

People Table:  $Pid \rightarrow Name, StreetNumber, StreetName, City, State, ScreenGuildDate$

Actors Table:  $Aid \rightarrow Pid, BirthDate, HairColor, EyeColor, HeightInches, WeightPounds$

Directors Table:  $Did \rightarrow Pid, filmSchool$

Movie Table:  $Mid \rightarrow Name, YearReleased, BoxOfficeSales, ForeignSales, DVDSales$

Acted Table: composite key: Aid, Mid

Directed Table: composite key: Did, Mid

```
CREATE TABLE People(  
    Pid char(3) NOT NULL,  
    Name text,  
    StreetNumber integer,  
    StreetName text,  
    City text,  
    State text,  
    ScreenGuildDate date,  
    PRIMARY KEY(Pid) );
```

```
CREATE TABLE Actors (  
    Aid char(3) NOT NULL,  
    Pid char(3) NOT NULL,  
    BirthDate date,  
    HairColor text,  
    EyeColor text,  
    HeightInches text,  
    WeightPounds text,  
    PRIMARY KEY(Aid) );
```

```
CREATE TABLE Directors (  
    Did char(3) NOT NULL,  
    Pid char(3) NOT NULL,  
    filmSchool text, PRIMARY KEY(Did) );
```

```
CREATE TABLE Movies (  
    Mid char(3) NOT NULL,  
    Name text,  
    YearReleased date,  
    BoxOfficeSales integer,  
    ForeignSales integer,  
    DVDSales integer,  
    PRIMARY KEY(Mid) );
```

```
CREATE TABLE Acted (  
    Aid char(3) NOT NULL,  
    Mid char(3) NOT NULL,  
    PRIMARY KEY(Aid, Mid) );
```

```
CREATE TABLE Directed (  
    Did char(3) NOT NULL,  
    Mid char(3) NOT NULL,  
    PRIMARY KEY(Did, Mid) );
```

```
INSERT INTO People
(Pid, Name, StreetNumber, StreetName, City, State, ScreenGuildDate)
VALUES ('P01', 'Kimberly Tobias', '56', 'Queensbridge Way', 'San Jose', 'CA',
'6/3/05');
```

```
INSERT INTO People
(Pid, Name, StreetNumber, StreetName, City, State, ScreenGuildDate)
VALUES ('P02', 'Sean Connery', '1223', 'ImAStar Way', 'Beverley Hills', 'CA',
'6/19/55');
```

```
INSERT INTO People
(Pid, Name, StreetNumber, StreetName, City, State, ScreenGuildDate)
VALUES ('P03', 'Caitlin McNally', '6599', 'Little Falls Drive', 'San Diego', 'CA',
'5/15/93');
```

```
INSERT INTO Actors (Aid, Pid, BirthDate, HairColor, EyeColor, HeightInches,
WeightPounds)
VALUES ('A01', 'P01', '8/22/79', 'Brown', 'Brown', '67', '140');
```

```
INSERT INTO Actors (Aid, Pid, BirthDate, HairColor, EyeColor, HeightInches,
WeightPounds)
VALUES ('A02', 'P02', '10/22/15', 'Blonde', 'Blue', '76', '215');
```

```
INSERT INTO Actors
(Aid, Pid, BirthDate, HairColor, EyeColor, HeightInches, WeightPounds)
VALUES ('A03', 'P03', '8/12/89', 'Black', 'Hazel', '66', '130');
```

```
INSERT INTO Directors
(Did, Pid, filmSchool)
VALUES ('D01', 'P01', 'Chapman');
```

```
INSERT INTO Directors
(Did, Pid, filmSchool)
VALUES ('D02', 'P03', 'NYFilmSchool');
```

```
INSERT INTO Movies
(Mid, Name, YearReleased, BoxOfficeSales, ForeignSales, DVDSales)
VALUES ('M01', 'First 007', '9/18/1986', '1600000', '500000', '100000');
```

```
INSERT INTO Movies
(Mid, Name, YearReleased, BoxOfficeSales, ForeignSales, DVDSales)
VALUES ('M02', 'Love Takes a Toll', '8/30/1956', '500000', '60000', '0');
```

```
INSERT INTO Movies
(Mid, Name, YearReleased, BoxOfficeSales, ForeignSales, DVDSales)
VALUES ('M03', 'How It Last', '5/15/2015', '5600000', '3500000', '100');
```

```
INSERT INTO Movies
(Mid, Name, YearReleased, BoxOfficeSales, ForeignSales, DVDSales)
VALUES ('M04', 'Come On Lets Go', '6/3/1996', '4500000', '900000', '450000');
```

```
INSERT INTO Movies
(Mid, Name, YearReleased, BoxOfficeSales, ForeignSales, DVDSales)
VALUES ('M05', 'This Gets Repetitive', '6/15/2006', '5555500', '500000', '9500');
```

```
INSERT INTO Movies
(Mid, Name, YearReleased, BoxOfficeSales, ForeignSales, DVDSales)
VALUES ('M06', 'Quantum of No Solace', '9/11/1999', '2000000', '990000',
'330000');
```

```
INSERT INTO Acted
(Aid, Mid)
VALUES ('A01', 'M07');
```

```
INSERT INTO Acted
(Aid, Mid) VALUES ('A02', 'M05'); INSERT INTO Acted (Aid, Mid) VALUES ('A02',
'M03');
```

```
INSERT INTO Acted
(Aid, Mid)
VALUES ('A03', 'M06');
```

```
INSERT INTO Acted
(Aid, Mid)
VALUES ('A02', 'M04');
```

```
INSERT INTO Acted
(Aid, Mid)
VALUES ('A01', 'M04');
```

```
INSERT INTO Acted
(Aid, Mid)
VALUES ('A03', 'M02');
```

```
INSERT INTO Acted
(Aid, Mid)
VALUES ('A01', 'M01');
```

```
INSERT INTO Acted  
(Aid, Mid)  
VALUES ('A03', 'M01');
```

```
Insert INTO Directed  
(Did, Mid)  
VALUES ('D01', 'M05');
```

```
Insert INTO Directed  
(Did, Mid)  
VALUES ('D02', 'M03');
```

```
Insert INTO Directed  
(Did, Mid)  
VALUES ('D01', 'M04');
```

5. write a SQL query to return all directors with whom have worked with “Sean Connery”

```
SELECT *  
FROM People p  
WHERE Pid IN  
    (Select Pid  
     FROM Directors d  
     Where d.Did IN  
         (SELECT Did FROM Directed d  
          WHERE d.Mid IN  
              (SELECT m.Mid FROM Movies m  
               WHERE m.Mid IN  
                   (SELECT a.Mid FROM Acted a  
                    WHERE a.Aid IN  
                        (SELECT a.Aid From Actors act  
                         WHERE act.Aid = a.Aid)))));
```