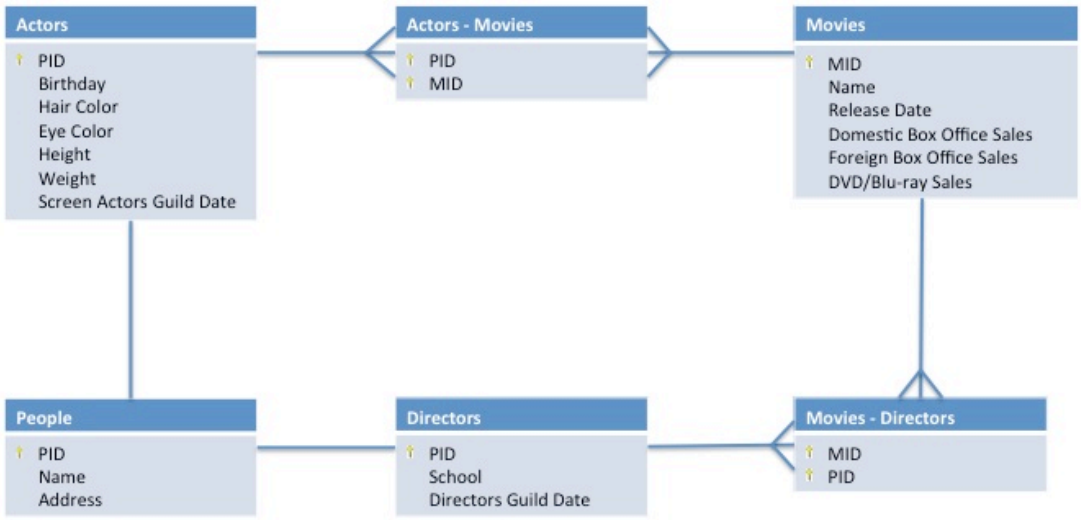
Charlie Ropes
Database Management
Normalization HW#2



SQL create statements (one for each table).

```
DROP TABLE IF EXISTS Peoples;
CREATE TABLE Peoples (
  PID varchar(4) not null,
  name  varchar(32),
  address varchar(100),
  primary key(PID)
  );

DROP TABLE IF EXISTS Actors;
CREATE TABLE Actors (
  PID varchar(4) references Peoples(PID),
  birthday varchar(16),
  hairColor varchar(16),
  eyeColor varchar(16),
  height varchar(8),
```

```
  weight varchar(8),
  actorsGuildDate varchar(16),
  primary key(PID)
  );

DROP TABLE IF EXISTS Directors;
CREATE TABLE Directors (
  PID varchar(4) references Peoples(PID),
  school varchar(24),
  directorsGuildDate varchar(16),
  primary key(PID)
  );

DROP TABLE IF EXISTS Movies;
CREATE TABLE Movies (
  MID varchar(4) not null,
  name varchar(16),
  releaseDate varchar(16),
  domesticBoxOfficeSales varchar(100),
  foreignBoxOfficeSales varchar(100),
  DVDBlueraySales varchar (100),
  primary key(MID)
  );

DROP TABLE IF EXISTS Actors-Movies;
CREATE TABLE Actors-Movies (
  PID varchar(4) references Actors(PID),
  MID varchar(4) references Movies(MID),
  primary key(PID, MID)
  );

DROP TABLE IF EXISTS Movies-Directors;
CREATE TABLE Movies-Directors (
  PID varchar(4) references Directors(PID),
  MID varchar(4) references Movies(MID),
  primary key(PID, MID)
  );
```

SQL insert statements for test data (not a lot, but enough to validate the query results).

Peoples Inserts

```
INSERT INTO Peoples(PID, name, address)
  VALUES( 'p001', 'Simon Darts', '10 Applesauce Ln. Wappingers Falls NY 12590'  );
```

INSERT INTO Peoples(PID, name, address)
VALUES('p002', 'Sean Connery', ‘10 Polk rd. Poughkeepsie NY 12790’);

INSERT INTO Peoples(PID, name, address)
VALUES('p003', 'Charlie Ropes', ’90 Old Castle Point rd. Wappingers Falls NY 12590’);

Actors Inserts

INSERT INTO Actors(PID, birthday, hairColor, eyeColor, height, weight, actorsGuildDate)
VALUES('p001', ‘09/18/1980', ‘Blond’, ‘Blue’, ‘76‘ , ‘160’, ‘10/29/2000’);

INSERT INTO Actors(PID, birthday, hairColor, eyeColor, height, weight, actorsGuildDate)
VALUES('p002', ‘01/04/1982', ‘Black’, ‘Brown’, ‘75‘ , ‘170’, ‘08/02/1998’);

INSERT INTO Actors(PID, birthday, hairColor, eyeColor, height, weight, actorsGuildDate)
VALUES('p003', ‘12/25/1993', ‘Black’, ‘Brown’, ‘73‘ , ‘140’, ‘12/20/2008’);

Directors Inserts

INSERT INTO Directors(PID, school, actorsGuildDate)
VALUES('p001', ‘Siena’, ‘09/20/2005’);

INSERT INTO Directors(PID, school, actorsGuildDate)
VALUES('p003', ‘Marist’, ‘11/09/2013’);

Movie Inserts

INSERT INTO Movies(MID, name, releaseDate, domesticBoxOfficeSales, foreignBoxOfficeSales, DVDBlueraySales)
VALUES('m001', ‘Anchorman’, ‘03/15/2005', ‘$1,000,000’, ‘$2,736,392’, ‘890,000‘);

INSERT INTO Movies(MID, name, releaseDate, domesticBoxOfficeSales, foreignBoxOfficeSales, DVDBlueraySales)
VALUES('m002', ‘Kick Ass’, ‘06/10/2013', ‘$2,104,090’, ‘$3,234,112’, ‘1,030,508‘);

Actors-Movies Inserts

INSERT INTO Actors-Movies(PID, MID)
VALUES('p001', ‘m001’);

```
INSERT INTO Actors-Movies(PID, MID)
  VALUES( 'p002',  'm001' );

INSERT INTO Actors-Movies(PID, MID)
  VALUES( 'p002',  'm002' );

INSERT INTO Actors-Movies(PID, MID)
  VALUES( 'p003',  'm002' );
```

Directors-Movies

```
INSERT INTO Movies-Directors (MID,PID)
  VALUES( 'm001',  'p001' );

INSERT INTO Movies-Directors (MID,PID)
  VALUES( 'm002',  'p001' );

INSERT INTO Movies-Directors (MID,PID)
  VALUES( 'm002',  'p003' );
```

Dependencies

Name, and Address are dependent on PID.

Birthday, Hair Color, Eye Color, Height, Weight and Screen Actor Guild Date are dependent on PID.

School and Directors Guild Date are dependent on PID.

Name, Release Date, Domestic Box Office Sales, Foreign Box Office Sales and DVD/Blue-ray Sales are dependent on MID

SQL Query

```
SELECT DISTINCT d.PID
FROM Directors as d, Actors as a, Movies as m, Actors-Movies as am, Movies-
        Directors as md
WHERE a.PID = 'p002'
    AND a.PID = am.PID
    AND am.MID = m.MID
    AND m.MID = md.MID
    AND md.PID = d.PID;
```