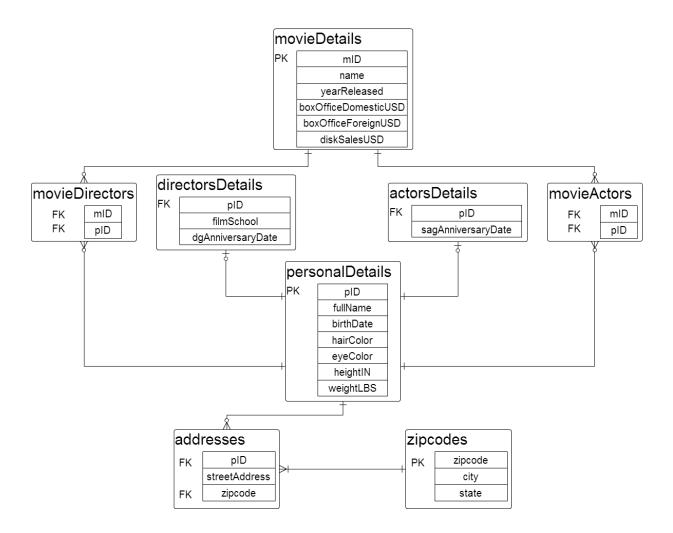
Cassandra Graves Lab 8 4/4/2014

1) E/R Diagram



2) SQL Create Statements

```
CREATE TABLE movieDetails(
       mID
                             TEXT NOT NULL,
       name
                             TEXT NOT NULL,
       vearReleased
                             INT,
       boxOfficeDomesticUSD NUMERIC(7,2),
       boxOfficeForeignUSD
                             NUMERIC(7,2),
                             NUMERIC(7,2),
       diskSalesUSD
       PRIMARY KEY(mID)
);
CREATE TABLE personal Details(
                             TEXT NOT NULL,
       pID
       fullName
                             TEXT NOT NULL,
       birthDate
                             DATE,
       hairColor
                             TEXT,
       eyeColor
                             TEXT,
       heightIN
                             INT,
       weightLBS
                             INT,
       PRIMARY KEY(pID)
);
CREATE TABLE movieDirectors(
       mID
                             TEXT NOT NULL REFERENCES movieDetails(mID),
       pID
                             TEXT NOT NULL REFERENCES personalDetails(pID)
);
CREATE TABLE movieActors(
       mID
                             TEXT NOT NULL REFERENCES movieDetails(mID),
       pID
                             TEXT NOT NULL REFERENCES personalDetails(pID)
);
CREATE TABLE directorsDetails(
       pID
                             TEXT NOT NULL REFERENCES personalDetails(pID),
       filmSchool
                             TEXT,
       dgAnniversaryDate
                             DATE
);
CREATE TABLE actorsDetails(
       pID
                             TEXT NOT NULL REFERENCES personalDetails(pID),
       sagAnniversaryDate
                             DATE
);
```

```
CREATE TABLE zipcodes(
               zipcode
                                      INT NOT NULL,
               city
                                      TEXT NOT NULL,
                                      TEXT NOT NULL,
               state
               PRIMARY KEY(zipcode)
       );
       CREATE TABLE addresses(
                                      TEXT NOT NULL REFERENCES personalDetails(pID),
               pID
               streetAddress
                                      TEXT.
               zipcode
                                      INT REFERENCES zipcodes(zipcode)
       );
3) SQL Insert Statements
       movieDetails
               INSERT INTO movieDetails
               (mID, name, yearReleased, boxOfficeDomesticUSD, boxOfficeForeignUSD, diskSalesUSD)
               VALUES('m001','Dr. No',1962,5555.55,4444.44,11212.12);
               INSERT INTO movieDetails
               (mID, name, yearReleased, boxOfficeDomesticUSD, boxOfficeForeignUSD, diskSalesUSD)
               VALUES('m002','Moonraker',1979,6666.66,5555.55,11919.19);
               INSERT INTO movieDetails
               (mID, name, yearReleased, boxOfficeDomesticUSD, boxOfficeForeignUSD, diskSalesUSD)
               VALUES('m003','Skyfall',2012,2222.22,1111.11,10000.04);
               INSERT INTO movieDetails
               (mID, name, yearReleased, boxOfficeDomesticUSD, boxOfficeForeignUSD, diskSalesUSD)
               VALUES('m004','Winner',2013,8888.88,7777.77,2999.99);
       personalDetails
               INSERT INTO personalDetails
               (pID, fullName, birthDate, hairColor, eyeColor, heightIN, weightLBS)
               VALUES('p001', 'Sean Connery', '1930-8-25', 'grey', 'brown', 74, 180);
               INSERT INTO personalDetails
               (pID, fullName, birthDate, hairColor, eyeColor, heightIN, weightLBS)
               VALUES('p002','Roger Moore','1927-10-14','black','blue',73,190);
               INSERT INTO personalDetails
               (pID, fullName, birthDate, hairColor, eyeColor, heightIN, weightLBS)
               VALUES('p003','Daniel Craig','1968-3-2','brown','blue',70,200);
               INSERT INTO personalDetails
               (pID, fullName, birthDate, hairColor, eyeColor, heightIN, weightLBS)
               VALUES('p004','Terence Young','1915-6-20','grey','brown',68,170);
```

```
INSERT INTO personalDetails
       (pID, fullName, birthDate, hairColor, eyeColor, heightIN, weightLBS)
       VALUES('p005','Lewis Gilbert','1920-3-6','white','brown',65,165);
       INSERT INTO personalDetails
       (pID, fullName, birthDate, hairColor, eyeColor, heightIN, weightLBS)
       VALUES('p006','Sam Mendes','1965-8-1','grey','blue',70,185);
movieDirectors
       INSERT INTO movieDirectors(mID,pID)
       VALUES('m001','p004');
       INSERT INTO movieDirectors(mID,pID)
       VALUES('m002','p005');
       INSERT INTO movieDirectors(mID,pID)
       VALUES('m003','p006');
       INSERT INTO movieDirectors(mID,pID)
       VALUES('m004','p001');
       INSERT INTO movieDirectors(mID,pID)
       VALUES('m004','p005');
movieActors
       INSERT INTO movieActors(mID,pID)
       VALUES('m001','p001');
       INSERT INTO movieActors(mID,pID)
       VALUES('m002','p002');
       INSERT INTO movieActors(mID,pID)
       VALUES('m003','p003');
       INSERT INTO movieActors(mID,pID)
       VALUES('m004','p001');
       INSERT INTO movieActors(mID,pID)
       VALUES('m004','p002');
directorsDetails
       INSERT INTO directorsDetails(pID, filmSchool, dgAnniversaryDate)
       VALUES('p004','Cambridge','2014-1-25');
       INSERT INTO directorsDetails(pID, filmSchool, dgAnniversaryDate)
       VALUES('p005','RADA','2013-2-2');
```

```
INSERT INTO directorsDetails(pID, filmSchool, dgAnniversaryDate) VALUES('p006', 'Cambridge', '2014-1-25');
```

INSERT INTO directorsDetails(pID, filmSchool, dgAnniversaryDate) VALUES('p001','Marist','2014-1-25');

actorsDetails

INSERT INTO actorsDetails(pID, sagAnniversaryDate) VALUES('p001','2014-1-18');

INSERT INTO actorsDetails(pID, sagAnniversaryDate) VALUES('p002','2014-1-18');

INSERT INTO actorsDetails(pID, sagAnniversaryDate) VALUES('p003','2014-1-18');

INSERT INTO actorsDetails(pID, sagAnniversaryDate) VALUES('p005','2014-1-18');

zipcodes

INSERT INTO zipcodes(zipcode, city, state) VALUES(10940, 'Middletown', 'NY');

INSERT INTO zipcodes(zipcode, city, state) VALUES(12601, 'Poughkeepsie', 'NY');

INSERT INTO zipcodes(zipcode, city, state) VALUES(10924, 'Goshen', 'NY');

addresses

INSERT INTO addresses(pID, streetAddress, zipcode) VALUES('p001','1 Main St',10924);

INSERT INTO addresses(pID, streetAddress, zipcode) VALUES('p002','3 Blue Ave',10940);

INSERT INTO addresses(pID, streetAddress, zipcode) VALUES('p003','7 Park PI',10924);

INSERT INTO addresses(pID, streetAddress, zipcode) VALUES('p004','9 Ridge Rd',10924);

INSERT INTO addresses(pID, streetAddress, zipcode) VALUES('p005','15 Stratford Ln',10940);

INSERT INTO addresses(pID, streetAddress, zipcode) VALUES('p006','200 North Rd',12601);

```
4) Functional Dependencies
        movieDetails
         mID → name, yearReleased, boxOfficeDomesticUSD, boxOfficeForeignUSD, diskSalesUSD
        personalDetails
         pID → fullName, birthdate, hairColor, eyeColor, heightIN, weightLBS
        directorsDetails
         pID \rightarrow filmSchool, dgAnniversaryDate
       actorsDetails
         pID \rightarrow sagAnniversaryDate
       zipcodes
         zipcode → city, state
        addresses
         pID → streetAddress, zipcode
5) SQL Query: All directors with whom Actor Sean Connery has worked.
        select fullName as DirectorsNames
        from personalDetails
        where pID in
                       (select pID
                        from movieDirectors
                        where mID in (select mID
                                        from movieActors
                                        where pID in
                                                       (select pID
                                                       from personalDetails
                                                       where fullName = 'Sean Connery'
                                       )
                       )
```