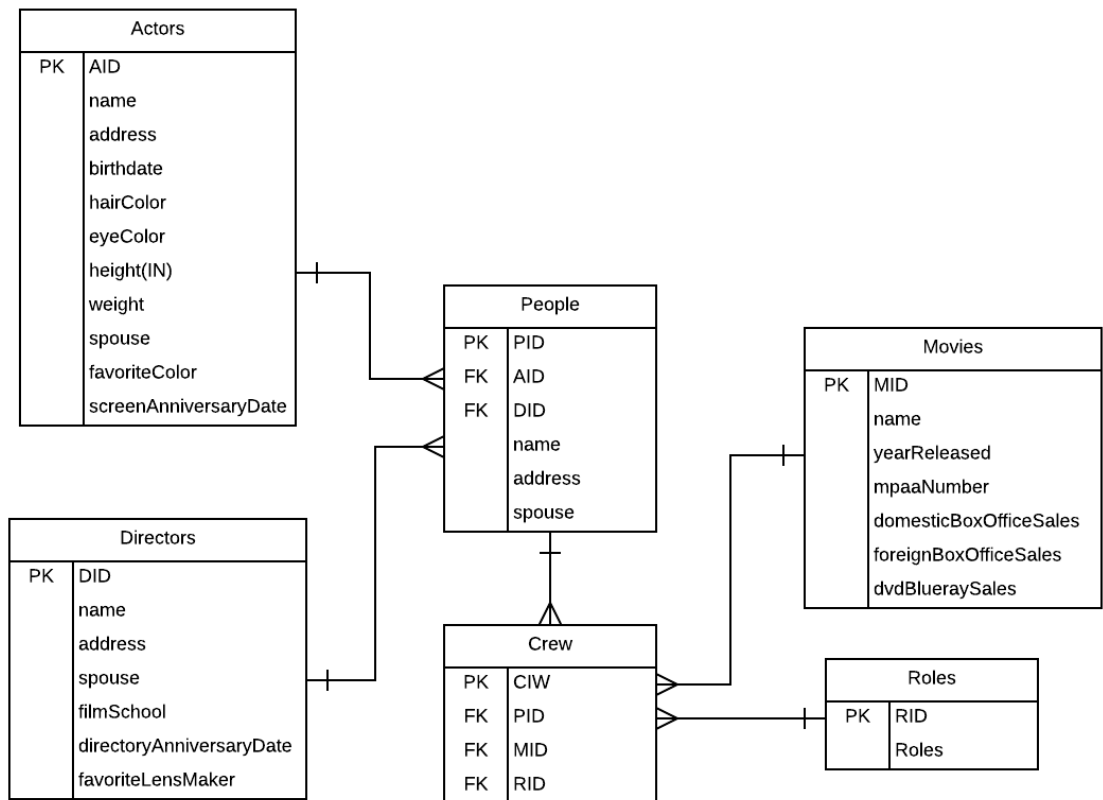Kayla Mesmain

11/13/17

Normalization 2- lab 8

    1.

    2.

```
CREATE DATABASE NewJamesBond;


--create table for People

CREATE TABLE People (

    PID char(4) not null,

    name text not null,

    Address text,
```

```sql
        Spouse text,

        PRIMARY KEY (PID));

INSERT INTO People (pid, name, address, spouse)

        VALUES ('A769', 'Efron', 'main st', 'kayla');


--create table for Director

CREATE TABLE Actors (

        AID char(4) not null references People(PID),

        name text not null,

        address text,

        birthdate date,

        hairColor text,

        eyeColor text,

        height int,

        weight int,

        spouse text,

        favoriteColor text,

        screenAnniversaryDate date,

        PRIMARY KEY (AID));

INSERT INTO Actors (aid, name, address, bithdate, hairColor,

                eyeColor, height, weight, spouse,

                favoriteColor, screenAnniversaryDate)

        VALUES('B600', 'Roger Moore', 'main st', '5-26-98', 'brown'

            'blue', '6 ft', '120', 'jennifer', 'pink',

            '6-5-14');
```

```sql
--create table for Director
CREATE TABLE Directors (

    DID char(4) not null references People(PID),

    name text not null,

    address text,

    spouse text,

    filmSchool text,

    directoryAnniversaryDate date,

    favoriteLensMaker text,

    PRIMARY KEY (DID));
INSERT INTO Directors (DID, name, address, spouse,

                filmSchool,directoryAnniversaryDate,

                favoriteLensMaker)

    VALUES('C400', 'Smith', 'Jole', 'ucla',

        '2-13-17', 'craft');


--create table for Crew
CREATE TABLE Crew (

    CID char(4) not null,

    PID char(4) not null references People(PID),

    MID char(4) not null references Movies(MID),

    RID char(4) not null references Roles(RID),

    PRIMARY KEY (CID));
INSERT INTO Crew (CID, PID, MID, RID)

    Values('D200', 'C500', 'E100', 'F200');
```

```sql
--Movies table and data
CREATE TABLE Movies (

      MID char(9) not null,

      name text not null,

      yearReleased int,

      mpaaNumber int,

      domesticBoxOfficeSales int,

      foreignBoxOfficeSales int,

      dvdBlueraySales int,

      PRIMARY KEY (MID));
INSERT INTO Movies (mid, name, yearReleased,

            mpaaNumber, domesticBoxOfficeSales,

            foreignBoxOfficeSales, dvdBlueraySales)

      VALUES('E100', 'John', '519', '430', '538' , '839');


--create table for roles
CREATE TABLE Roles (

      RID char(4) not null,

      Roles text,

      PRIMARY KEY (RID));
INSERT INTO Roles (rid, roles)

      values('F200', 'bond');
```

3.

Functional Dependencies

People table
PID – name, address, spouse

Actors table
AID- birthdate, hairColor, eyeColor, height, weight, favoriteColor, screenAnniversaryDate

Directors table
DID- filmSchool, directoryAnniversaryDate, favoriteLensMaker

Crew table
CIW, PID, MID,RID- no functional dependency

Movies table
MID- name, yearReleased, mpaaNumber, domesticBoxOfficeSales, foreignBoxOfficeSales,
dvdBlueraySales

Roles table
RID- roles

4.

```
--Question number 4
SELECT People.name
FROM People
WHERE People.pid IN (SELECT DISTINCT pid
                     FROM Crew
                     WHERE mid IN ( SELECT DISINCT mid
                             WHERE pid IN (SELECT DISINCT People.pid
                                     FROM People
                                     WHERE People.name = 'Roger Moore')));
```