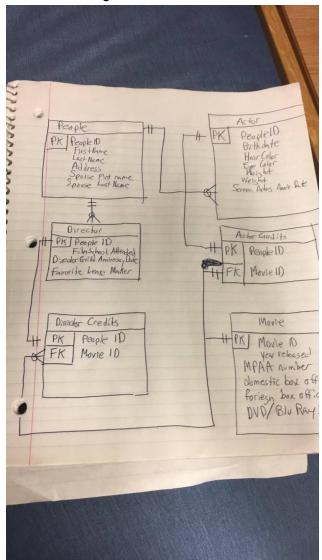
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Database Management
Lab 8
11/9/16

## 1. E/R Diagram



## 2. SQL Statements

Drop table if exists director\_creds;

Drop table if exists actor\_creds;

Drop table if exists directors;

Drop table if exists actors;

Drop table if exists movies;

Drop table if exists people;

```
create table people(
 peopleID
                     int
                            primary key,
 fName
                     text
                             Not null,
 IName
                     text
                             not null,
 spouseFName
                     text,
 spouseLName
                     text,
 address
                     text
                             not null
);
create table directors(
 peopleID
                     int
                            primary key references people(peopleID),
 filmSchool
                     text,
 directorsGuildDate date,
 favoriteLensMaker text
);
create table actors(
 peopleID
                         Primary key references people(peopleID),
                  int
 birthDate
                  DATE
                           not null.
 hairColor
                  Text
                          not null,
 heightInches
                        not null,
                  int
 weight
                  int
                        not null,
 favoriteColor
                  text,
 sagAnnivDate
                  date
);
create table movies(
 movieID
                  int
                         primary key,
 name
                 text
                         not null,
                 int
                        not null,
 year
 mpaaRating
                  text
                         not null,
 domesticBoxSalesUSD int,
 foreignBoxSalesUSD
                        int,
 dvdBlueRaySalesUSD
);
create table actorCredits(
 peopleID
                  int
                         references actors(peopleID),
 movieID
                  int
                         references movies(movieID),
 primary key(peopleID, movieID)
);
```

- 3. Functional Dependencies
- a. PeopleID → First Name, Last Name, Address, Spouse First Name, Spouse Last Name
- b. PeopleID  $\rightarrow$  Film School Attended, Director Guild Anniversary Date, Favorite Lens Maker
- c. PeopleID  $\rightarrow$  Birth Date, Hair Color, Eye Color, Height In Inches, Weight, Favorite Color, Screen Actors Guild Anniversary Date
- d. PeopleID, MovieID→
- e. PeopleID, MovieID→
- f. MovieID  $\rightarrow$  Name, Year, MPAA Number, Domestic Box Office Sales USD, Foreign Box Office Sales USD, DVD/Blu-ray Sales USD
- 4. Write a query to show all the directors with whom actor "Sean Connery" has worked SELECT Fname, Lname

FROM People

WHERE PeopleID IN (SELECT PeopleID

FROM DirectorCredits

WHERE MovieID IN (SELECT MovieID

FROM ActorCredits

WHERE PeopleID IN (SELECT PeopleID FROM People

WHERE Fname = "Sean" AND Lname =

"Connery")))