

Robert Lynch

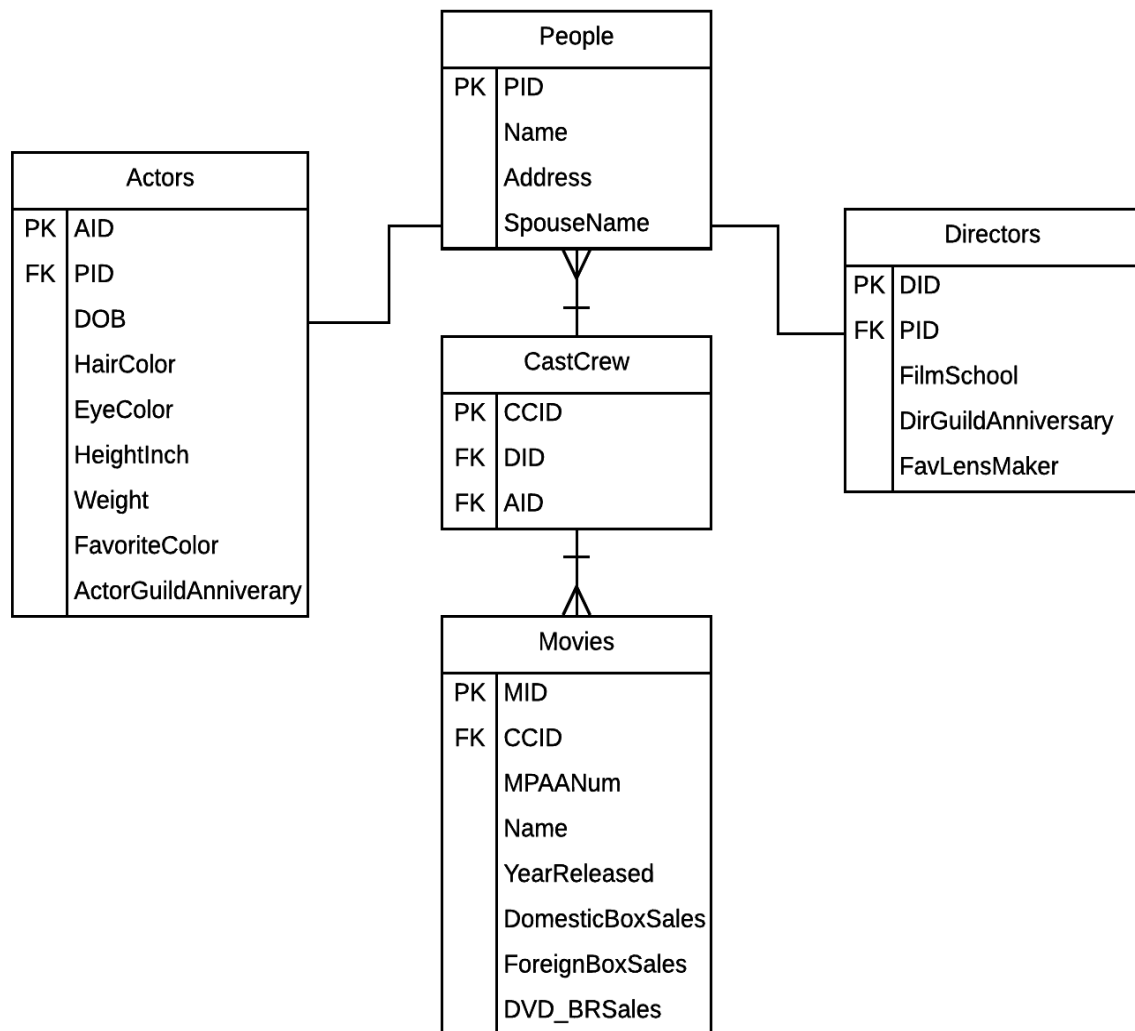
Professor Labouseur

Database Systems – CMPT 308 114

3 November 2016

Lab 8

1. ER Diagram



2. SQL Code

```
1. DROP TABLE IF EXISTS People;
2. DROP TABLE IF EXISTS Actors;
3. DROP TABLE IF EXISTS Directors;
4. DROP TABLE IF EXISTS CastCrew;
5. DROP TABLE IF EXISTS Movies;
6.
7. --People--
8. CREATE TABLE People(
9.     PID char(25) not null,
10.    Name text not null,
11.    Address varchar(100),
12.    SpouseName text,
13.    PRIMARY KEY(PID)
14. );
15.
16. --Actors--
17. CREATE TABLE Actors(
18.    AID char(25) not null,
19.    PID char(25) not null references People(PID),
20.    DOB datetime not null,
21.    HairColor text not null,
22.    EyeColor text not null,
23.    HeightInch not null,
24.    Weight not null,
25.    FavoriteColor text,
26.    ActorGuildAnniversary text,
27.    PRIMARY KEY(AID)
28. );
29.
30. --Directors--
31. CREATE TABLE Directors(
32.    DID char(25) not null,
33.    PID char(25) not null references People(PID),
34.    FilmSchool text,
35.    DirGuildAnniversary text,
36.    FavLensMaker text,
37.    PRIMARY KEY(DID)
38. );
39.
40. --CastCrew--
41. CREATE TABLE CastCrew(
42.    CCID char(25) not null,
43.    DID char(25) not null references Directors(DID),
44.    AID char(25) not null references Actors(AID),
45.    PRIMARY KEY(CCID)
46. );
47.
48. --Movies--
49. CREATE TABLE Movies(
50.    MID char(25) not null,
51.    CCID char(25) not null references CastCrew(CCID),
52.    MPAAEnum integer not null,
53.    Name text not null,
54.    YearReleased date,
55.    DomesticBoxSales numeric(10, 2),
56.    ForeignBoxSales numeric(10, 2),
57.    DVD_BRSales numeric(10, 2),
58.    PRIMARY KEY(MID)
59. );
```

3. Functional Dependencies

People: PID \rightarrow Name, Address, SpouseName

Actors: AID, PID → DOB, HairColor, EyeColor, HeightInch, FavoriteColor, ActorGuildAnniversary

Directors: DID, PID → FilmSchool, DirGuildAnniversary, FavLensMaker

CastCrew: CCID \rightarrow DID, AID

Movies: MID, CCID → MPAANum, YearReleased, DomesticBoxSales, ForeignBoxSales, DVD_BRSales

4. Query

[illegible]