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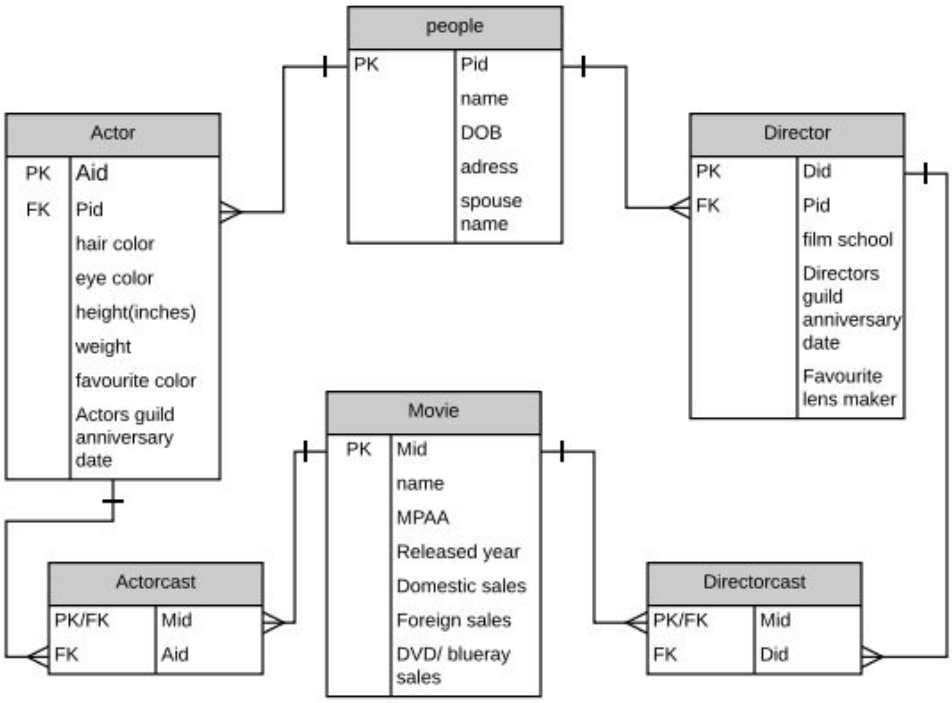
CMPT 308

Lab 8 - Normalization 2

1)



2)

```
CREATE TABLE people ( Pid CHAR(8) PRIMARY KEY NOT NULL,
                      name TEXT NOT NULL,
                      DOB  DATE NOT NULL,
                      address TEXT ,
                      Spousename  TEXT
                      ) ;
CREATE TABLE Director ( Did CHAR(8) PRIMARY KEY NOT NULL,
                        Pid CHAR(8) NOT NULL,
                        Filmschool TEXT,
                        Danniversary DATE NOT NULL,
                        Favlensmaker TEXT
                      ) ;
CREATE TABLE Actor (Aid CHAR(8) PRIMARY KEY NOT NULL,
                    Pid CHAR(8) NOT NULL,
```

```
                    Haircolor TEXT,
                    Eyecolor   TEXT,
                    Height INTEGER,
                    weight  INTEGER,
                    favcolor TEXT,
                    Aanniversary DATE NOT NULL
                    ) ;
CREATE TABLE Movie ( Mid CHAR(8) PRIMARY KEY NOT NULL,
                      Name TEXT NOT NULL,
                     MPAA TEXT NOT NULL,
                      Releaseddate DATE,
                     Domesticsales DECIMAL,
                     Foreignsales DECIMAL,
                     DVDsales DECIMAL
                     ) ;
CREATE TABLE Actorcast ( Mid CHAR(8) PRIMARY KEY,
                          Aid  CHAR(8)
                          ) ;
CREATE TABLE Directorcast ( Mid CHAR(8) PRIMARY KEY,
                            Did CHAR (8)
                            ) ;
```

3) Functional Dependency

- **People → Pid , name , DOB , address , spouse name**
- **Director → Did → film school , Danniversary ,Favlensmaker**
  Pid → director to people
- **Actor → Aid → haircolor ,eye color ,height ,weight, favourite color ,Actors guild anniversary**
  Pid → Actor to people
- **Movie → Mid →name ,MPAA ,released date, domestic and foreign sales, DVD sales**
- **Actorcast → Mid→Aid**
- **Directorcast →Mid→Did**

4)

```
Select  p.name from people p
where Pid In ( Select Pid from Directors
```

```
Where Did in (Select d.Did from movie m , Directorcast  d ,Actorcast  a
                Where d.Mid =m.Mid
                AND a.Mid = m.Mid
                AND a.Aid = (Select a.Aid from Actor a, People p
                                Where a.Aid = p.Pid
                                 AND p.name =" Sean Connery" )
              )  );
```