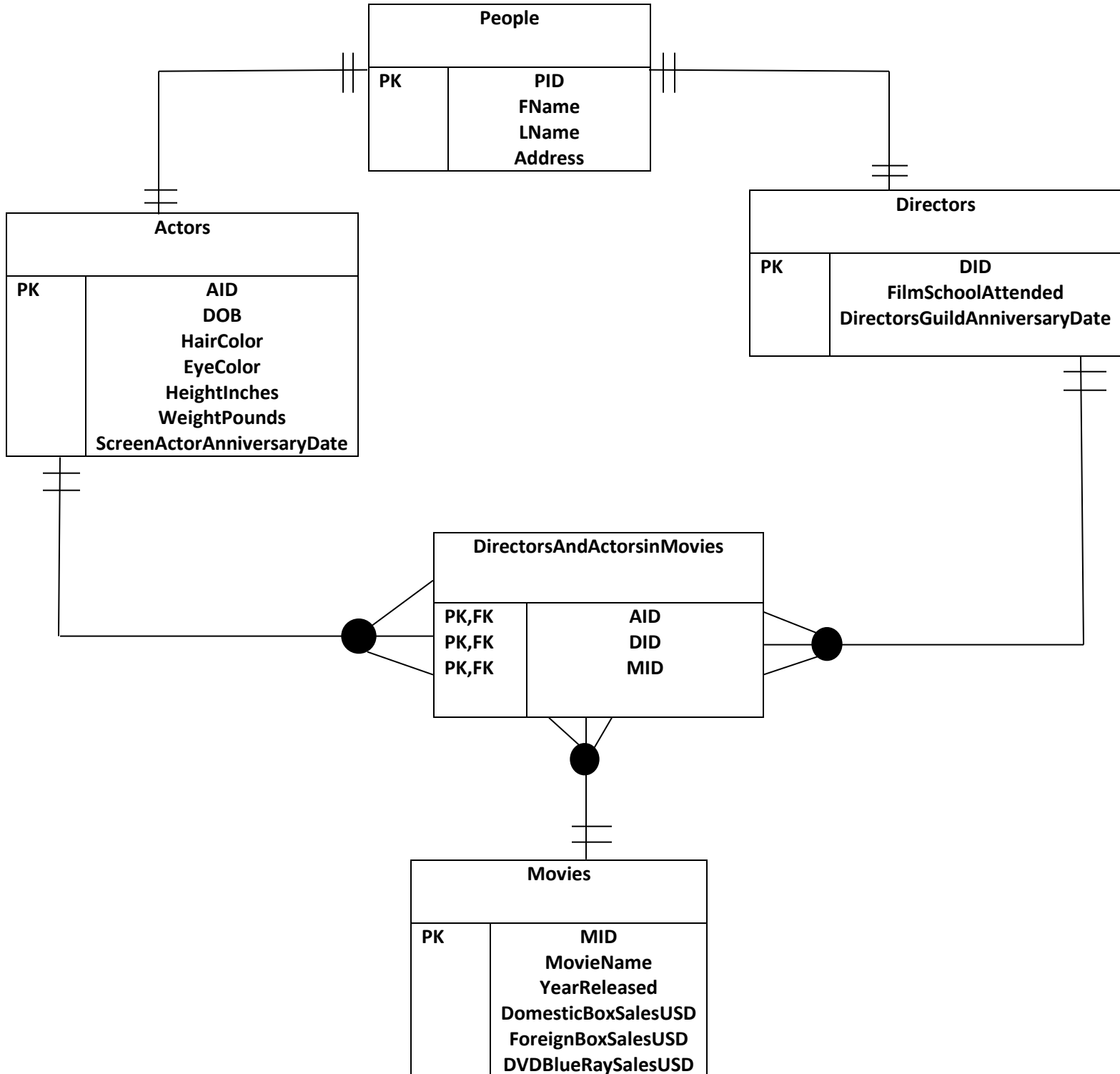


Megan Crane

Normalization Assignment 2

1. E/R Diagram



2. Create Statements

Table1: People

drop table if exists People;

```
create table People (  
    pid int not null,  
    FName char(30) not null,  
    LName char(30) not null,  
    Address char(150) not null,  
    primary key(pid)  
);
```

Table2: Actors

drop table if exists Actors;

```
create table Actors (  
    aid int not null references people(pid),  
    DOB date not null,  
    HairColor char(30) not null,  
    EyeColor char(30) not null,  
    HeightInches int not null,  
    WeightPounds int not null,  
    ScreenActorsAnniversaryDate date not null,  
    primary key(aid)
```

);

Table3: Directors

drop table if exists Directors;

```
create table Directors (  
    did int not null references people(pid),  
    FilmSchoolAttended char(50) not null,  
    DirectorsGuildAnniversaryDate date not null,  
    primary key(did)  
);
```

Table4: Movies

drop table if exists Movies;

```
create table Movies(  
    mid int not null,  
    MovieName char(150) not null,  
    YearReleased char(4) not null,  
    DomesticBoxSalesUSD int not null,  
    ForeignBoxSalesUSD int not null,  
    DVDBlueRaySalesUSD int not null,  
    primary key(mid)  
);
```

Table5 DirectorsAndActorsinMovies

drop table if exists DirectorsAndActorsinMovies;

```
create table DirectorsAndActorsinMovies (  
aid int not null references actors(aid),  
did int not null references directors(did),  
mid int not null references movies(mid),  
primary key(aid, did, mid)  
);
```

3. Insert Statements

Table1: People

```
insert into people(pid, FName, LName, Address)  
values('001','Sean','Connery','838 Charlton Road, Charlton, NY');  
  
insert into people(pid,FName,LName,Address)  
values('002','Jennifer','Lawrence','78 North Street, Duxbury, MA');  
  
insert into people(pid,FName,LName,Address)  
values('003','Adam','Sandler','6220 Deerwood Circle North, Plymouth, MN');  
  
insert into people(pid,FName,LName,Address)  
values('004','Mie','Hamma','413 Mullberry Street, China Town, NY');
```

Table2: Actors

```
insert into actors(aid, DOB, HairColor, EyeColor, HeightInches, WeightPounds,  
ScreenActorsAnniversaryDate)
```

```

values('001','August/25/1930','brown','green','72','170','04/21/2003');

insert into actors(aid, DOB, HairColor, EyeColor, HeightInches, WeightPounds,
ScreenActorsAnniversaryDate)

values('002','August/15/1990','blonde','blue','64','130','10/13/2009');

insert into actors(aid, DOB, HairColor, EyeColor, HeightInches, WeightPounds,
ScreenActorsAnniversaryDate)

values('004','October/16/1946','black','brown','64','120','06/17/2000');

```

Table3: Directors

```

insert into directors(did,FilmSchoolAttended,DirectorsGuildAnniversaryDate)

values('001','LA Film School','04/08/2005');

insert into directors(did,FilmSchoolAttended,DirectorsGuildAnniversaryDate)

values('003','American Film Institute','12/17/2008');

```

Table4: Movies

```

insert into
movies(mid,MovieName,YearReleased,DomesticBoxSalesUSD,ForeignBoxSalesUSD,DVDBBlueRaySalesUSD)

values('001','You Only Live Twice','1967','43000000','68000000','100000000');

insert into
movies(mid,MovieName,YearReleased,DomesticBoxSalesUSD,ForeignBoxSalesUSD,DVDBBlueRaySalesUSD)

values('002','The Hunger Games','2012','210800000','59250000','320000000');

```

Table5: DirectorsAndActorsinMovies

```

insert into DirectorsAndActorsinMovies(aid,did,mid)

values('001','001','001');

insert into DirectorsAndActorsinMovies(aid,did,mid)

values('004','001','001');

```

4. Functional Dependencies

People: pid depends on FName, LName, Address

Actors: aid depends on DOB, HairColor, EyeColor, HeightInches, WeightPounds,
ScreenActorAnniversaryDate

Directors: did depends on FilmSchoolAttended, DirectorsGuildAnniversaryDate

Movies: mid depends on MovieName, YearReleased, DomesticBoxSalesUSD, ForeignBoxSalesUSD,
DVDBBlueRaySalesUSD

5. SQL Query to return all directors Sean Connery has worked with

```
select distinct p2.FName, p2.LName
```

```
from   directors d,
```

```
       people p1,
```

```
       people p2,
```

```
       actors a,
```

```
       DirectorsAndActorsinMovies daaim
```

```
where p1.pid = a.aid
```

```
       and a.aid = daaim.aid
```

```
       and d.did = daaim.did
```

```
       and p2.pid = d.did
```

```
       and p1.FName = 'Sean'
```

```
       and p1.LName = 'Connery';
```