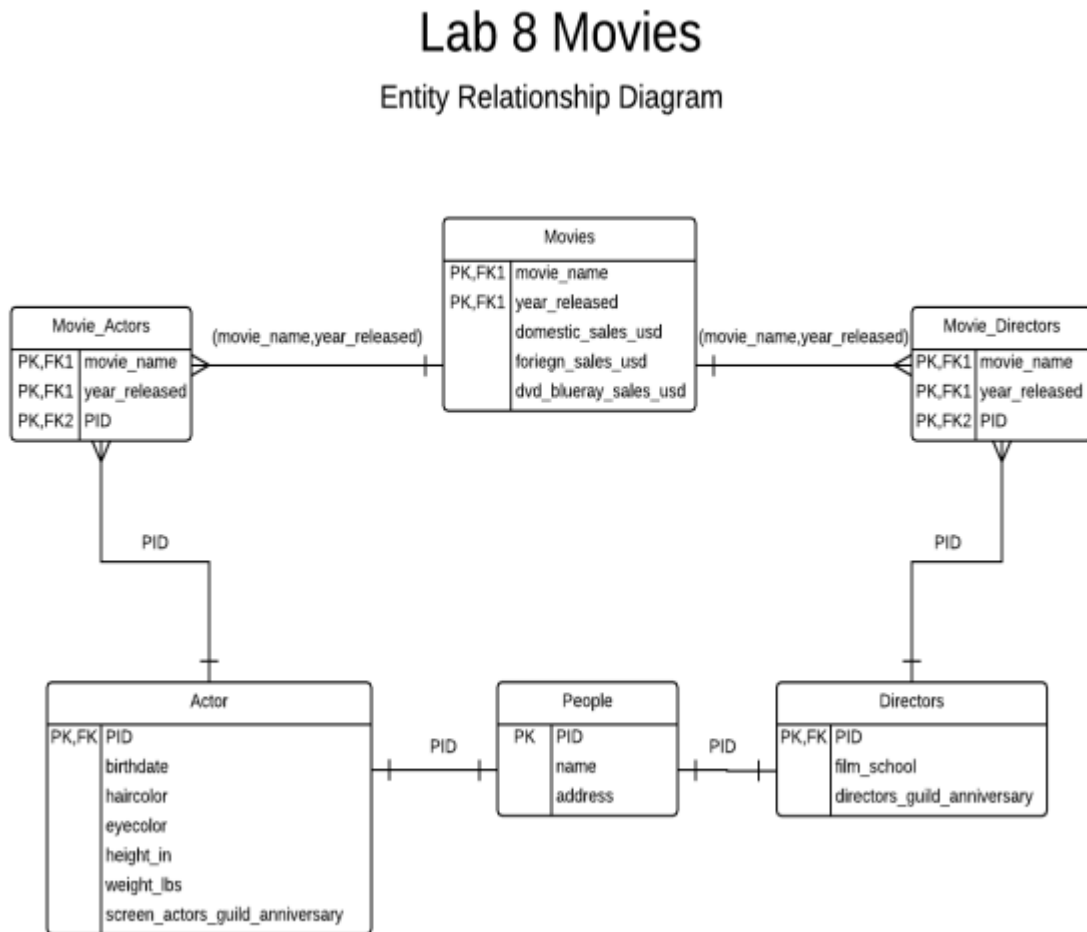


Lab 08

1.)



2.)

```

CREATE TABLE Movies (
    movie_name      text not null,
    year_released   smallint CHECK(year_released > 1800),
    domestic_sales_usd numeric(12,2),
    foreign_sales_usd numeric(12,2),
    dvd_blueray_sales_usd numeric(12,2),
    PRIMARY KEY(movie_name,year_released)
);
  
```

```
CREATE TABLE People(  
    pid  
    name  
    address  
    PRIMARY KEY(pid)  
);
```

```
CREATE TABLE Actors (  
    pid char(6) not null REFERENCES People(pid),  
    birthdate date,  
    eye color char(15),  
    hair color char(15),  
    height_in smallint CHECK(height_in > 0),  
    weight_lbs smallint CHECK(weight_lbs > 0),  
    screen_actors_guild_anniversary date,  
    PRIMARY KEY(pid)  
);
```

```
CREATE TABLE Directors(  
    pid char(6) not null REFERENCES People(pid),  
    film_school text,  
    directors_guild_anniversary date,  
    PRIMARY KEY(pid)  
);
```

```
CREATE TABLE Movie_Actors(  
    movie_name text not null,  
    year_released smallint not null,  
    pid char(6) not null REFERENCES Actors(pid),  
    FOREIGN KEY(movie_name,year_released) REFERENCES  
Movies(movie_name,year_released),  
    PRIMARY KEY(movie_name,year_released,pid)  
);
```

```
CREATE TABLE Movie_Directors(  
    movie_name text not null,  
    year_released smallint not null,  
    pid char(6) not null REFERENCES Directors(pid),  
    FOREIGN KEY(movie_name,year_released) REFERENCES  
Movies(movie_name,year_released),  
    PRIMARY KEY(movie_name,year_released,pid)  
);
```

3.)

INSERT INTO

Movies(movie_name,year_released,domestic_sales_usd,foriegn_sales_usd,dvd_blueray_sales_usd)

VALUES('Entrapment',1999,87704396.00,124700000.00, 1500000.00),
('Finding Forrester',2000, 51768623.00 , 28245000.00,1245555.00),
('The League of Extraordinary Gentlemen',2003, 66465204.00, 112800000.00,
36400000.00),
('GoldenEye',1995,106429941.00,245764093.00,22389000.00);

INSERT INTO People(pid,name,address)

VALUES('p1','Sean Connery','Fake Address 3033, Podunk, NW 32113'),
('p2','Catherine Zeta-Jones','2108 Elm Street, Ellenville, NY 10482'),
('p3','Rob Brown','6792 Pine Road, Trentown, NJ 39802'),
('p4','Stuart Townsend','1293 Empire Ave, Taconic, NY 31123'),
('p5','Pierce Brosnan','9321 High Street, Pheonix, AZ 11234'),
('p6','Jon Amiel','8203 Underwood Road, Endstown, WZ 32393'),
('p7','Gus Van Sant','Fake Address 3033, Podunk, NW 32113'),
('p8','Stephen Norrington','3829 Infinite Ion Ave., Nowville, TX 00789'),
('p9','Martin Campbell','9987 End Of Line Road, Final Town, GA 23225');

INSERT INTO

Actors(pid,birthdate,haircolor,eyecolor,height_in,weight_lbs,screen_actors_guild_anniversary)

VALUES('p1','08-25-1930','brown','brown', 56, 216,'06-18-1954'),
('p2','07-12-1976','blond','blue',60,120,'07-01-1995'),
('p3','11-25-1980','black','green',67,140,'02-03-1990'),
('p4','02-06-1984','red','hazel',53,210,'04-07-1997'),
('p5','05-21-1970','brown','red',57,175,'08-21-1982');

INSERT INTO Directors(pid,film_school,directors_guild_anniversary)

VALUES('p6','University of Cambridge','03-24-1982'),
('p7','Film School Of Nowhereville','11-11-1990'),
('p8','Bright Eyes School Of Movies','09-01-1995'),
('p9','The World Of Film','12-30-1987');

INSERT INTO Movie_Actors(movie_name,year_released,pid)

VALUES('Entrapment',1999,'p1'),
('Entrapment',1999,'p2'),
('Finding Forrester',2000,'p1'),
('Finding Forrester',2000,'p3'),
('The League of Extraordinary Gentlemen',2003,'p1'),
('The League of Extraordinary Gentlemen',2003,'p4'),
('GoldenEye',1995,'p5');

```
INSERT INTO Movie_Directors(movie_name,year_released,pid)
VALUES('Entrapment',1999,'p6'),
('Finding Forrester',2000,'p7'),
('The League of Extraordinary Gentlemen',2003,'p8'),
('GoldenEye',1995,'p9');
```

4.) Movies

(movie_name, year_released) -> the set and all subsets of {domestic_sales_usd, foreign_sales_usd, dvd_blueray_sales_dvd}

People

pid -> the set and all subsets of {name, address}
as in theory there could be two "Hosea Rodrigez" at the same address

Actors

pid -> the set and all subsets of {birthdate, haircolor, eyecolor, height_in, weight_lbs, screen_actors_guild_anniversary}

Directors

pid-> the set and all subsets of {film_school, directors_guild_anniversary}

Movie Actors

(movie_name,year_released,pid) -> * None *

Movie Directors

(movie_name,year_released,pid) -> * None *

5.)

```
select distinct DirectorsJoin.name as "Directors Name" from movies
inner join movie_directors on movie_directors.movie_name = movies.movie_name
AND movie_directors.year_released = movie_directors.year_released
inner join movie_actors on movie_actors.movie_name = movies.movie_name AND
movie_actors.year_released = movie_actors.year_released
inner join people as ActorsJoin on ActorsJoin.pid = movie_actors.pid
inner join people as DirectorsJoin on DirectorsJoin.pid = movie_directors.pid
where ActorsJoin.name = 'Sean Connery'
order by DirectorsJoin.name asc;
```