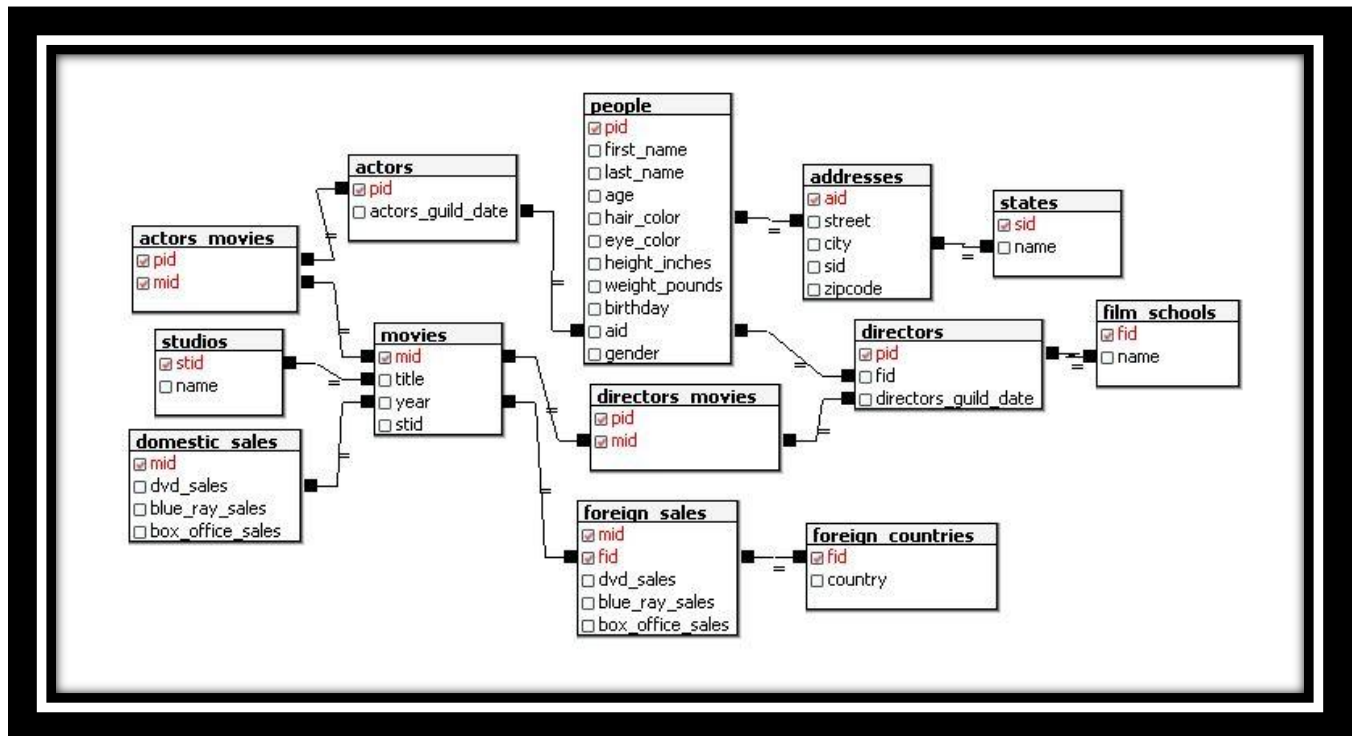


Name: Mohammed

Assignment: Normalization II



Create and Insert Statements for the above tables

```
-- States Table
create table states(
sid int not null,
name char(2) not null,
primary key (sid)
);

insert into states (sid, name) values (123,'NY');
insert into states (sid, name) values (765,'NJ');
insert into states (sid, name) values (456,'CA');
insert into states (sid, name) values (654,'AZ');
insert into states (sid, name) values (454,'TX');
insert into states (sid, name) values (864,'NC');
insert into states (sid, name) values (457,'MI');
insert into states (sid, name) values (865,'FL');
```

```

-- Addresses Table
create table addresses(
aid int not null,
street text not null,
city text not null,
sid int not null references states (sid),
zipcode int not null,
primary key (aid)
);

-- Addresses Inserts
insert into addresses (aid, street, city, sid, zipcode)
values (132, '343 Apple Avenue', 'Cotton Candy', 123, 73487);

insert into addresses (aid, street, city, sid, zipcode)
values (523, '43 Main Street', 'Tuscon', 765, 97448);

insert into addresses (aid, street, city, sid, zipcode)
values (284, '755 E Blvd', 'Mesa', 457, 87844);

insert into addresses (aid, street, city, sid, zipcode)
values (927, '33 E 6th Awanue', 'New York City', 123, 10001);

insert into addresses (aid, street, city, sid, zipcode)
values (728, 'Park Avenue', 'New York City', 123, 10001);

insert into addresses (aid, street, city, sid, zipcode)
values (358, '89 Coconut Hills', 'Long Beach', 865, 12005);

insert into addresses (aid, street, city, sid, zipcode)
values (1023, '385 High Gardens', 'Tampa', 865, 90035);

insert into addresses (aid, street, city, sid, zipcode)
values (9302, '5th Baloon Street', 'Ocean Side', 457, 32158);

insert into addresses (aid, street, city, sid, zipcode)
values (7952, '13 Sky View', 'Knight Owl', 765, 02604);

-- People Table
create table people(
pid int not null,
first_name text not null,
last_name text not null,
age int not null,
hair_color text not null,
eye_color text not null,
height_inches real not null,
weight_pounds real not null,
birthday date not null,
aid int not null references addresses (aid),
primary key (pid)
);

```

--People Inserts

insert into people values

(1, 'Daniel', 'Craig', 45, 'Brown', 'Grey', 70, 165, '1968-03-02', 523, 'M');

insert into people values

(2, 'Sean', 'Connery', 83, 'Black', 'Black', 74, 175, '1930-08-25', 927, 'M');

insert into people values

(3, 'Toby', 'Stephens', 44, 'Brown', 'Grey', 74, 210, '1953-05-16', 728, 'M');

insert into people values

(4, 'George', 'Lazenby', 75, 'Black', 'Black', 74, 189, '1939-09-05', 7952, 'M');

insert into people values

(5, 'Roger', 'Moore', 83, 'Black', 'Black', 73, 185, '1927-10-14', 1023, 'M');

insert into people values

(6, 'Steven', 'Spielberg', 66, 'Grey', 'Black', 68, 197, '1946-12-18', 284, 'M');

insert into people values

(7, 'Martin', 'Scorsese', 70, 'White', 'Black', 72, 220, '1942-11-17', 132, 'M');

insert into people values

(8, 'Christopher', 'Nolan', 43, 'Brown', 'Blue', 75, 208, '1970-07-30', 358, 'M');

-- Actors Table

create table actors(

pid int references people (pid),

actors_guild_date date,

primary key (pid)

);

-- Actors Inserts

insert into actors values (1, '1998-04-18');

insert into actors values (2, '1962-02-24');

insert into actors values (3, '1989-09-20');

insert into actors values (4, '1972-12-21');

-- Film Schools Table

create table film_schools(

fid int not null,

name text not null,

primary key (fid)

);

```

-- Film Schools Inserts
insert into film_schools values (1231,'New York Film Academy');
insert into film_schools values (54901,'Bekely Digital Film
Institute');
insert into film_schools values (4234,'California Institute of Arts');
insert into film_schools values (2342,'Los Angeles Film School');
insert into film_schools values (5329,'The Film School');
insert into film_schools values (12054,'Rockstar Film Studio');

-- Directors Table
create table directors(
pid int references people (pid),
fid int not null references film_schools (fid),
directors_guild_date date,
primary key (pid)
);

--Directors Inserts
insert into directors values (6,1231,'1978-05-25');
insert into directors values (7,12054,'1969-10-07');
insert into directors values (8,4234,'2005-01-19');

-- Studios Table
create table studios(
stid int not null,
name text not null,
primary key (stid)
);

-- Studios Inserts
insert into studios values (912440,'Dream Works');
insert into studios values (555234,'Fox');
insert into studios values (545314,'Universal');
insert into studios values (901241,'Paramount Pictures');
insert into studios values (054124,'Pixar');
insert into studios values (154316,'Warner Bros. Pictures');
insert into studios values (234255,'Hollywood Pictures');

-- Movies Table
create table movies(
mid int not null,
title text not null,
year int not null,
stid int not null references studios (stid),
primary key (mid)
);

-- Movies Inserts
insert into movies values (055,'Sky Fall',2012,234255);
insert into movies values (996,'Casino Royal',2006,912440);

```

```
insert into movies values (911,'From Russia with Love',1964,545314);
insert into movies values (100,'Golden Eye',1995,054124);
insert into movies values (555,'Dr. No',1962,555234);
insert into movies values (001,'Tomorrow Never Dies',1997,234255);
```

```
-- Actors Movies Table
create table actors_movies(
pid int references actors (pid),
mid int not null references movies (mid),
primary key (mid, pid)
);
```

```
-- Actor Movies Inserts
insert into actors_movies values (1,055);
insert into actors_movies values (2,055);
insert into actors_movies values (3,055);
insert into actors_movies values (1,996);
insert into actors_movies values (4,996);
insert into actors_movies values (3,911);
insert into actors_movies values (4,911);
insert into actors_movies values (1,100);
insert into actors_movies values (3,100);
insert into actors_movies values (4,001);
insert into actors_movies values (1,001);
insert into actors_movies values (2,555);
insert into actors_movies values (1,555);
insert into actors_movies values (3,555);
```

```
-- Directors Movies Table
create table directors_movies(
pid int references directors (pid),
mid int not null references movies (mid),
primary key (mid, pid)
);
```

```
-- Directors Movies Inserts
insert into directors_movies values (6,055);
insert into directors_movies values (8,055);
insert into directors_movies values (6,996);
insert into directors_movies values (7,996);
insert into directors_movies values (8,996);
insert into directors_movies values (7,911);
insert into directors_movies values (8,911);
insert into directors_movies values (6,100);
insert into directors_movies values (7,001);
insert into directors_movies values (8,555);
```

```
-- Domestic_Sales Table
create table domestic_sales(
mid int not null references movies (mid),
```

```
dvd_sales int,  
blue_ray_sales int,  
box_office_sales int,  
primary key (mid)  
);
```

```
-- Domestic Sales Inserts
```

```
insert into domestic_sales values (055,1234,232,2344);  
insert into domestic_sales values (996,23,23,42332);  
insert into domestic_sales values (911,234,0,423);  
insert into domestic_sales values (100,1234,232,4233);  
insert into domestic_sales values (555,43,1222,12);  
insert into domestic_sales values (001,0,0,532);
```

```
-- Foreign Countries Table
```

```
create table foreign_countries(  
fid int not null  
country text not null,  
primary key (fid)  
);
```

```
-- Foreign Countries Inserts
```

```
insert into foreign_countries values (1111,'Canada');  
insert into foreign_countries values (4444,'Russia');  
insert into foreign_countries values (3333,'India');  
insert into foreign_countries values (2222,'Italy');  
insert into foreign_countries values (6666,'Mexico');  
insert into foreign_countries values (7777,'France');  
insert into foreign_countries values (8888,'Dubai');
```

```
-- Foreign_Sales Table
```

```
create table foreign_sales(  
mid int not null references movies (mid),  
fid int not null references foreign_countries (fid),  
dvd_sales int,  
blue_ray_sales int,  
box_office_sales int,  
primary key (mid, fid)  
);
```

```
-- Foreign Sales Inserts
```

```
insert into foreign_sales values  
(055,7777,0,67453,122);  
insert into foreign_sales values  
(055,1111,432,23,232);  
insert into foreign_sales values  
(001,8888,8057,0,2111);  
insert into foreign_sales values  
(001,2222,4234,50,3432);  
insert into foreign_sales values
```

```

(100,1111,32,0,222);
insert into foreign_sales values
(100,3333,432,53,4322);
insert into foreign_sales values
(555,7777,3223,11,13);
insert into foreign_sales values
(555,8888,323,1321,13323);
insert into foreign_sales values
(996,1111,32,0,222);
insert into foreign_sales values
(996,4444,433,52,322);

```

Functional Dependencies

People: (pid) → first_name, last_name, age, hair_color, eye_color, height_inches, weight_pounds, birthday, aid

Addresses: (aid) → street, city, sid, zipcode

States: (sid) → name

Actors: (pid) → actors_guild_date

Directors: (pid) → directors_guild_date

Film_Schools: (fid) → name

Movies: (mid) → title, year, std

Studios: (std) → name

Actors_Movies: (pid, mid) → pid, mid

Directors_Movies : (pid, mid) → pid, mid

Foreign_Countries: (fid) → Country

Domestic_Sales: (mid) → dvd_sales, blue_ray_sales, box_office_sales

Foreign_Sales (mid, fid) → dvd_sales, blue_ray_sales, box_office_sales

Query for “Sean Connery”

```

select p.first_name, p.last_name
from people p
where pid in(select pid
from directors_movies
where mid in(select mid
from actors_movies
where pid in(select pid
from people
where first_name = 'Sean' and last_name = 'Connery'))));

```