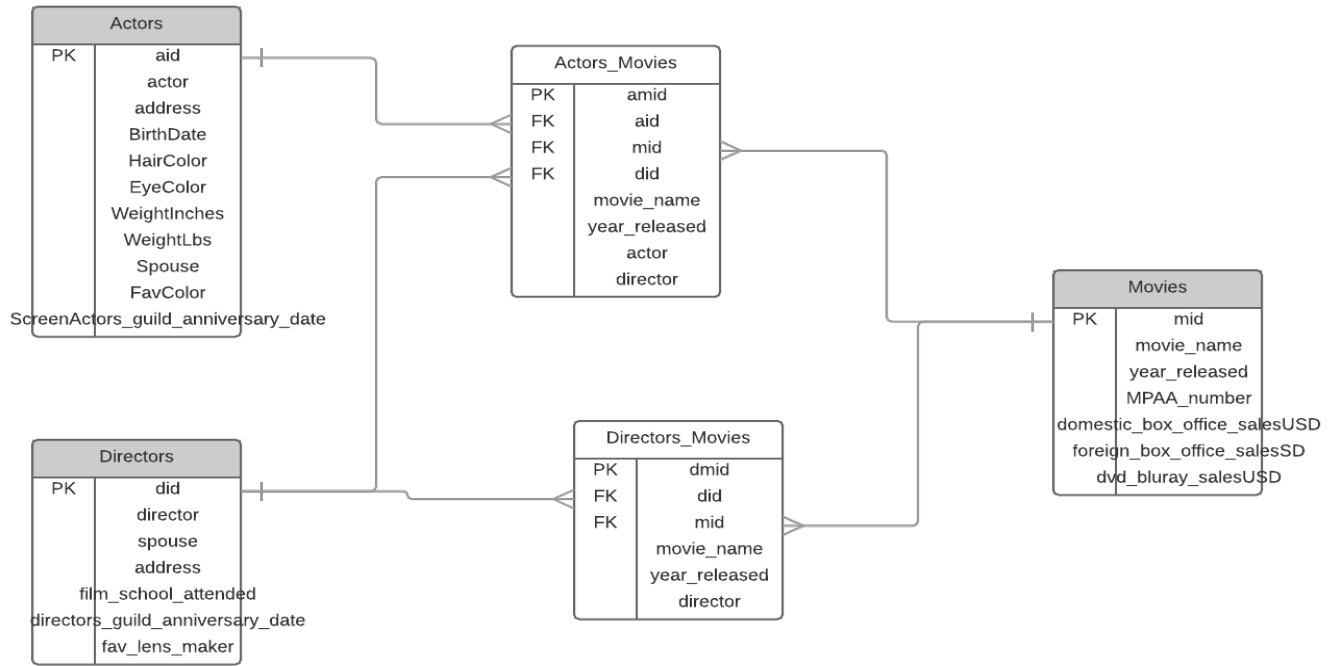


--Brian Tracey  
--Normalization Lab 2  
--James Bond New Actor  
--April 5th 2016

(all below)



## 2) Create database

```
drop table if exists Actors;
create table if not exists Actors
(
aid                serial not null primary key,
actor              text   not null,
address            text   not null,
BirthDate          date   not null,
HairColor          text   not null,
EyeColor           text   not null,
HeightInches       text   not null,
WeightLbs          text   not null,
Spouse             text   not null,
FavColor           text   not null,
ScreenActors_guild_anniversary_date date not null
);
```

```
drop table if exists Movies;
create table if not exists Movies
(
mid                serial not null primary key,
movie_name         text   not null,
year_released      text   not null,
MPAA_number        text   not null,
money              not null,
foreign_box_office_salesUSD money not null,
dvd_bluray_salesUSD money not null
);
```

```
drop table if exists Directors;
create table if not exists Directors
(
did                serial not null primary key,
director           text   not null,
spouse            text   not null,
address           text   not null,
film_school_attended text not null,
directors_guild_anniversary_date date not null,
fav_lens_maker     text   not null
);
```

```

drop table if exists Actors_Movies;
create table if not exists Actors_Movies
(
amid          serial not null primary key,
aid           int  not null references actors(aid),
did           int  not null references directors(did),
mid           int  not null references movies(mid),
movie_name    text  not null,
year_released text  not null,
actor         text  not null,
director      text  not null
);

```

```

drop table if exists Directors_Movies;
create table if not exists Directors_Movies
(
dmid          serial not null primary key,
mid           int  not null references movies(mid),
did           int  not null references directors(did),
movie_name    text  not null,
year_released text  not null,
director      text  not null
);

```

--Actors Table

```

insert into actors(actor, address, BirthDate, HairColor, EyeColor, HeightInches, WeightLbs, Spouse,
FavColor, ScreenActors_guild_anniversary_date)
values ('Jonah Hill' , '5 Wall Street' , 'July 19 1994', 'Red', 'Blue', '5-7', '230', 'Bachelor', 'Green',
'04-12-2000');
insert into actors(actor, address, BirthDate, HairColor, EyeColor, HeightInches, WeightLbs, Spouse,
FavColor, ScreenActors_guild_anniversary_date)
values ('Christian Bale' , '3 Batman Blvd', 'January 30, 1978', 'Brown', 'Brown', '6-0', '190',
'Amanda', 'Blue', '03-26-2004');
insert into actors(actor, address, BirthDate, HairColor, EyeColor, HeightInches, WeightLbs, Spouse,
FavColor, ScreenActors_guild_anniversary_date)
values ('Leonardo DiCaprio' , '5 Beverly Hills Rd', 'June 5, 1974', 'Hazel', 'Brown', '6-1', '202',
'Bachelor', 'Green', '06-21-2001');
insert into actors(actor, address, BirthDate, HairColor, EyeColor, HeightInches, WeightLbs, Spouse,
FavColor, ScreenActors_guild_anniversary_date)
values ('Sean Connery' , '5 Overrated Lane', 'August 25, 1930', 'Brown', 'Brown', '5-10', '200',
'Jessica', 'Red', '10-25-2008');
insert into actors(actor, address, BirthDate, HairColor, EyeColor, HeightInches, WeightLbs, Spouse,
FavColor, ScreenActors_guild_anniversary_date)

```

```
values ('Idra Elbis ', '9 Mulholland Drive', 'May 5, 1981', 'Brown', 'Brown', '6-2', '200', 'Stella',
'Purple', '1-13-2010');
```

#### --Movies Table

```
insert into movies(movie_name, year_released, MPAA_number, domestic_box_office_salesUSD,
foreign_box_office_salesUSD, dvd_bluray_salesUSD)
values ('The Dark Knight', '2008', '345', 533345358, 469546000, 262543772);
insert into movies(movie_name, year_released, MPAA_number, domestic_box_office_salesUSD,
foreign_box_office_salesUSD, dvd_bluray_salesUSD)
values ('Django Unchained', '2012', '135', 850495319, 35486003, 37358635);
insert into movies(movie_name, year_released, MPAA_number, domestic_box_office_salesUSD,
foreign_box_office_salesUSD, dvd_bluray_salesUSD)
values ('Superbad', '2006', '678', 4589630663, 445960359604, 3546922);
insert into movies(movie_name, year_released, MPAA_number, domestic_box_office_salesUSD,
foreign_box_office_salesUSD, dvd_bluray_salesUSD)
values ('Indiana Jones', '1989', '455', 116601172, 114600000, 19644793);
insert into movies(movie_name, year_released, MPAA_number, domestic_box_office_salesUSD,
foreign_box_office_salesUSD, dvd_bluray_salesUSD)
values ('Goldfinger', '1964', '990', 93819282, 839849289, 123712388);
```

#### --Directors Table

```
insert into directors(director, spouse, address, film_school_attended,
directors_guild_anniversary_date,fav_lens_maker)
values ('Seth Rogan', 'Jenna', '5 Long Drive', 'Marist College', '11-11-1980', 'Canon' );
insert into directors(director, spouse, address, film_school_attended,
directors_guild_anniversary_date,fav_lens_maker)
values ('Quintin Terrintino', 'Michele', '9 Australia Lane' , 'Univeristy of Brisbane', '07-10-1998',
'Bolex');
insert into directors(director, spouse, address, film_school_attended,
directors_guild_anniversary_date,fav_lens_maker)
values ('Guy Hamilton', 'Brianna', '69 Guy Ct', 'University of Miami', '09-09-1999', 'Hoya');
insert into directors(director, spouse, address, film_school_attended,
directors_guild_anniversary_date,fav_lens_maker)
values ('Christopher Nolan', 'Emily', '7 Best Director Drive', 'Harvard', '02-01-1984',
'Hasselblad');
insert into directors(director, spouse, address, film_school_attended,
directors_guild_anniversary_date,fav_lens_maker)
values ('Steve Spielberg', 'Bachelor', '8 IT Lane', 'Princeton', '03-15-1982', 'Cokin');
```

#### --Actors Movies Table

```
insert into actors_movies(aid, did, mid, movie_name, year_released, actor, director)
values ('2','4','1','The Dark Knight', '2008', 'Christian Bale', 'Christopher Nolan');
insert into actors_movies(aid, did, mid, movie_name, year_released, actor, director)
values ('4','3','5','Goldfinger', '1964', 'Sean Connery', 'Guy Hamilton');
```

```

insert into actors_movies(aid, did, mid, movie_name, year_released, actor, director)
    values('3','2','2','Django Unchained', '2012', 'Leonardo DiCaprio', 'Quintin Terrantino');
insert into actors_movies(aid, did, mid, movie_name, year_released, actor, director)
    values('1','1','3','Superbad', '2012', 'Jonah Hill', 'Seth Rogan');
insert into actors_movies(aid, did, mid, movie_name, year_released, actor, director)
    values('4','5','4','Indiana Jones', '1989', 'Sean Connery', 'Steven Spielberg');

```

--Directors Movies Table

```

insert into directors_movies(mid, did, movie_name, year_released, director)
    values('1','4','The Dark Knight', '2008', 'Christopher Nolan');
insert into directors_movies(mid, did, movie_name, year_released, director)
    values('5','3','Goldfinger', '1964', 'Guy Hamilton');
insert into directors_movies(mid, did, movie_name, year_released, director)
    values('2','2','Django Unchained', '2012', 'Quintin Terrantino');
insert into directors_movies(mid, did, movie_name, year_released, director)
    values('3','1','Superbad', '2012', 'Seth Rogan');
insert into directors_movies(mid, did, movie_name, year_released, director)
    values('4','5','Indiana Jones', '1989', 'Steven Spielberg');

```

### 3) Functional Dependencies

Aid is dependent on actor, address, BirthDate, HairColor, EyeColor, HeightInches, WeightLbs, Spouse, FavColor, ScreenActors\_guild\_anniversary\_date

mid is dependent on movie\_name, year\_released, MPAA\_number, domestic\_box\_office\_salesUSD, foreign\_box\_office\_salesUSD, dvd\_bluray\_salesUSD

did is dependent on director, spouse, address, film\_school\_attended, directors\_guild\_anniversary\_date, fav\_lens\_maker

amid is dependent on aid, did, mid, movie\_name, year\_released, actor, director

dmid is dependent on mid, did, movie\_name, year\_released, director

### 4) Query to find directors

```

select director
from Actors_Movies am
where am.actor = 'Sean Connery'

```