--Create Statements

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,

hair\_color text not null,

eye\_color text not null,

height\_inches text not null,

weight\_lbs text not null,

screen\_actors\_guild\_anniversary\_date date not null

);

drop table if exists directors;

create table if not exists directors

(

did serial not null primary key,

director text not null,

address text not null,

film\_school\_attended text not null,

directors\_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,

domestic\_box\_office\_salesUSD money not null,

foreign\_box\_office\_salesUSD money not null,

dvd\_bluray\_salesUSD money 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,

starring\_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

);

--Insert Statements

--Actors Table

insert into actors(actor, address, birthdate, hair\_color, eye\_color, height\_inches, weight\_lbs, screen\_actors\_guild\_anniversary\_date)

values ('Sir Thomas Sean Connery' , '123 Banter Lane' , 'August 25, 1930', 'Gray', 'Brown', '6-2', '200', '02-12-1994');

insert into actors(actor, address, birthdate, hair\_color, eye\_color, height\_inches, weight\_lbs, screen\_actors\_guild\_anniversary\_date)

values ('Christian Bale' , '736 Gale Lane', 'January 30, 1974', 'Brown', 'Brown', '6-0', '190', '03-23-2010');

insert into actors(actor, address, birthdate, hair\_color, eye\_color, height\_inches, weight\_lbs, screen\_actors\_guild\_anniversary\_date)

values ('Henry Cavill' , '6354 Sunset Drive', 'May 5, 1983', 'Hazel', 'Brown', '6-1', '202', '08-31-2011');

insert into actors(actor, address, birthdate, hair\_color, eye\_color, height\_inches, weight\_lbs, screen\_actors\_guild\_anniversary\_date)

values ('Andrew Garfield' , '737 Heisenburg Lane', 'August 20, 1983', 'Brown', 'Brown', '5-10', '137', '12-02-2012');

insert into actors(actor, address, birthdate, hair\_color, eye\_color, height\_inches, weight\_lbs, screen\_actors\_guild\_anniversary\_date)

values ('Ryan Rodney Reynolds' , '32 Cambridge Lane', 'October 23, 1976', 'Brown', 'Brown', '6-2', '200', '11-08-2013');

--Directors Table

insert into directors(director, address, film\_school\_attended, directors\_guild\_anniversary\_date)

values ('Shaun Terence Young' , '52 Agusta Drive', 'St Catharines College, Cambridge', '01-11-1982' );

insert into directors(director, address, film\_school\_attended, directors\_guild\_anniversary\_date)

values ('Guy Hamilton' , '904 Geneva Lane' , 'In the Military', '05-19-1988');

insert into directors(director, address, film\_school\_attended, directors\_guild\_anniversary\_date)

values ('Lewis Gilbert' , '676 Spider Drive', 'In The Military', '09-10-1992');

insert into directors(director, address, film\_school\_attended, directors\_guild\_anniversary\_date)

values ('Christopher Nolan' , '776 Oakfield Drive', 'In The Military', '09-10-1992');

insert into directors(director, address, film\_school\_attended, directors\_guild\_anniversary\_date)

values ('Marc Webb' , '848 Maple Drive', 'In The Military', '09-10-1992');

insert into directors(director, address, film\_school\_attended, directors\_guild\_anniversary\_date)

values ('Martin Campbell' , '987 Cherry Drive', 'In The Military', '09-10-1992');

--Movies Table

insert into movies(movie\_name, year\_released, domestic\_box\_office\_salesUSD, foreign\_box\_office\_salesUSD, dvd\_bluray\_salesUSD)

values ('From Russia With Love', '1963', 24800000, 54100000, 1000000000);

insert into movies(movie\_name, year\_released, domestic\_box\_office\_salesUSD, foreign\_box\_office\_salesUSD, dvd\_bluray\_salesUSD)

values ('The Dark Knight', '2008', 533345358, 469546000, 262543772);

insert into movies(movie\_name, year\_released, domestic\_box\_office\_salesUSD, foreign\_box\_office\_salesUSD, dvd\_bluray\_salesUSD)

values ('Man of Steel', '2013', 291045518, 367000000, 37837475);

insert into movies(movie\_name, year\_released, domestic\_box\_office\_salesUSD, foreign\_box\_office\_salesUSD, dvd\_bluray\_salesUSD)

values ('The Amazing Spider Man', '2012', 262030663, 495859604, 34783640);

insert into movies(movie\_name, year\_released, domestic\_box\_office\_salesUSD, foreign\_box\_office\_salesUSD, dvd\_bluray\_salesUSD)

values ('The Green Lantern', '2011', 116601172, 114600000, 19644793);

insert into movies(movie\_name, year\_released, domestic\_box\_office\_salesUSD, foreign\_box\_office\_salesUSD, dvd\_bluray\_salesUSD)

values ('You Only Live Twice', '1967', 273263726, 9239482, 823718982);

insert into movies(movie\_name, year\_released, domestic\_box\_office\_salesUSD, foreign\_box\_office\_salesUSD, dvd\_bluray\_salesUSD)

values ('Goldfinger', '1964', 93819282, 839849289, 123712388);

--Actors Movies Table

insert into actors\_movies(aid, did, mid, movie\_name, year\_released, starring\_actor, director)

values('1','3','6','You Only Live Twice', '1967', 'Sir Thomas Sean Connery', 'Lewis Gilbert');

insert into actors\_movies(aid, did, mid, movie\_name, year\_released, starring\_actor, director)

values('1','2','7','Goldfinger', '1964', 'Sir Thomas Sean Connery', 'Guy Hamilton');

insert into actors\_movies(aid, did, mid, movie\_name, year\_released, starring\_actor, director)

values('1','1','1','From Russia With Love', '1963', 'Sir Thomas Sean Connery', 'Shaun Terence Young');

insert into actors\_movies(aid, did, mid, movie\_name, year\_released, starring\_actor, director)

values('2','4','2','The Dark Knight', '2008', 'Christian Bale', 'Christopher Nolan');

insert into actors\_movies(aid, did, mid, movie\_name, year\_released, starring\_actor, director)

values('3','4','3','Man of Steel', '2013', 'Henry Cavill', 'Christopher Nolan');

insert into actors\_movies(aid, did, mid, movie\_name, year\_released, starring\_actor, director)

values('4','5','4','The Amazing Spider Man', '2012', 'Andrew Garfield', 'Marc Webb');

insert into actors\_movies(aid, did, mid, movie\_name, year\_released, starring\_actor, director)

values('5','6','5','The Green Lantern', '2011', 'Ryan Reynolds', 'Martin Campbell');

--Directors Movies Table

insert into directors\_movies(mid, did, movie\_name, year\_released, director)

values('6','3','You Only Live Twice', '1967', 'Lewis Gilbert');

insert into directors\_movies(mid, did, movie\_name, year\_released, director)

values('7','2','Goldfinger', '1964', 'Guy Hamilton');

insert into directors\_movies(mid, did, movie\_name, year\_released, director)

values('1','1','From Russia With Love', '1963', 'Shaun Terence Young');

insert into directors\_movies(mid, did, movie\_name, year\_released, director)

values('2','4','The Dark Knight', '2008', 'Christopher Nolan');

insert into directors\_movies(mid, did, movie\_name, year\_released, director)

values('3','4','Man of Steel', '2013', 'Christopher Nolan');

insert into directors\_movies(mid, did, movie\_name, year\_released, director)

values('4','5','The Amazing Spider Man', '2012', 'Marc Webb');

insert into directors\_movies(mid, did, movie\_name, year\_released, director)

values('5','6','The Green Lantern', '2011', 'Martin Campbell');

--Functional Dependencies

aid → actor, address, birthdate, hair\_color, eye\_color, height\_inches, weight\_lbs, screen\_actors\_guild\_anniversary\_date

did → director, address, film\_school\_attended, directors\_guild\_anniversary\_date

mid → movie\_name, year\_released, domestic\_box\_office\_salesUSD, foreign\_box\_office\_salesUSD, dvd\_bluray\_salesUSD

amid →aid, did, mid, movie\_name, year\_released, starring\_actor, director

dmid →mid, did, movie\_name, year\_released, director

--Query to find the directors

select director

from actors\_movies am

where am.starring\_actor = 'Sir Thomas Sean Connery'