# **EON Productions Actors Database**

People Table (Main Table):

**SELECT** \*

FROM Persons;

pid integer	first_name character varying(40)	last_name character varying(40)	address character varying(80)
1	Sean	Connery	2000 Star Avenue, Los Angeles, CA
2	Matt	Damon	The Spanky Taylor Company 3727 Magnolia Suit CA
3	Tom	Cruise	1111 Calle Vista Dr, Beverly Hills, CA 90210
4	Tom	Hanks	1994 Gump Street, Santa Monica, CA
5	Brad	Pitt	32316 Pacific Coast Highway Malibu, CA
6	Ridley	Scott	634 La Peer Dr West Hollywood, CA
7	Neil	Jordan	Waverly House Noel Street Lonsin W1F
8	Guy	Hamilton	225 Violet Ct Saxonburg, Pennsylvania 16056
9	Robert	Zemeckis	1569 E Valley Rd, Montecito, CA 93108

To add more data to the above table, I will insert **entity subtypes** to better represent the model. Actors Data:

SELECT \*

FROM Actors;

	last_name character varying(40)	birth_date character varying(40)	eye_color character varying(40)	hair_color character varying(20)	A CONTRACTOR OF THE PARTY OF TH	weight_lbs integer	actors_guild_anniversary date	favorite_color character varying(20)	spouse_name character varying(60
1	Connery	8/25/1931	green	brown	74	180	1980-05-11	Green	Samantha
2	Damon	10/08/1970	blue	brown	70	175	1990-10-06	White	Angela
3	Cruise	7/3/1962	light blue	dark brown	72	165	1996-04-16	Black	Courtney
4	Hanks	7/9/1953	blue	brown	70	175	1974-01-23	Blue	Alexis
5	Pitt	10/18/1963	blue	brown	70	175	1995-08-29	Orange	Rebecca

Movies Data: **SELECT** \* **FROM Movies**;

mid integer	movie_name character varying(80)	year_released integer	mpaa_rating text	domestic_box_office_sales_usd integer	foreign_box_office_sales_usd integer	dvd_bluray_sales integer
1	Forrest Gump	1994	PG-13	64000000	15000000	8679305
2	Goldfinger	1964	GP	9000000	15000000	239386
3	Interview with the Vampire	1994	R	47000000	52000000	4369305
4	The Martian	2015	PG-13	37000000	63000000	9833861

# Directors Data: **SELECT** \* **FROM Directors**;

did integer		film_school_attended character varying(50)	directors_guild_anniversary date	spouse_name character varying(40)	fav_lens_maker character varying(30)
1	Hamilton	New York Film Academy	1962-02-13	Elizabeth	Zeiss
2	Scott	American Film Institute	1983-04-30	Meghan	Olympus
3	Jordan	Boston University School of Arts	1987-08-03	Katie	Pentax
4	Zemeckis	London College of Music	1990-10-30	Caroline	Olympus

Actors and the movies they worked in:

SELECT \*

FROM Actors\_Movies;

aid integer	mid integer	last_name character varying(40)	movie_name character varying(40)
4	1	Hanks	Forrest Gump
1	2	Connery	Goldfinger
3	3	Cruise	Interview with the Vampire
5	3	Pitt	Interview with the Vampire
2	4	Damon	The Martian

Directors and the movies they directed:

SELECT \*

FROM Directors\_Movies;

did integer	mid integer	last_name character varying(40)	movie_name character varying(40)
4	1	Zemeckis	Forrest Gump
1	2	Hamilton	Goldfinger
3	3	Jordan	Interview with the Vampire
2	4	Scott	The Martian

```
The SQL Create Statements for the above tables:
```

```
DROP TABLE if exists Persons;
DROP TABLE if exists Actors;
DROP TABLE if exists Directors:
DROP TABLE if exists Movies;
DROP TABLE if exists Actors_Movies;
DROP TABLE if exists Directors_Movies;
CREATE TABLE Persons(
       pid
              serial not null primary key,
       first_name varchar(40) not null,
       last_name varchar(40) not null,
       address
                            varchar(80)
);
CREATE TABLE Actors (
       aid int not null primary key references Persons(pid),
       last_name varchar(40),
       birth date varchar(40) not null,
       eye_color varchar(40),
       hair_color varchar(20),
       height_inches int,
       weight_lbs int,
       actors_guild_anniversary date,
       favorite_color varchar(20),
       spouse_name varchar(60)
);
CREATE TABLE Directors (
       did int not null primary key references Persons(pid),
       last_name varchar(40),
       film_school_attended varchar(50),
       directors_guild_anniversary date,
       spouse_name varchar(40),
       fav_lens_maker varchar(30)
);
CREATE TABLE Movies (
       mid serial not null primary key,
       movie_name varchar(80),
       year released int,
       MPAA_Rating text,
```

```
domestic box office sales usd money,
       foreign_box_office_sales_usd money,
       dvd_bluray_sales money
);
CREATE TABLE Actors_Movies (
       aid int not null references Actors(aid),
       mid int not null references Movies(mid),
       last name varchar(40) not null,
       movie_name varchar(40),
       primary key(aid,mid)
);
CREATE TABLE Directors_Movies (
       did int not null references Directors(did),
       mid int not null references Movies(mid),
       last name varchar(40),
       movie_name varchar(40),
       primary key(did,mid)
);
-- Main Table Data
insert into Persons (first name, last name, address)
       values ('Sean', 'Connery', '2000 Star Avenue, Los Angeles, CA');
insert into Persons (first_name, last_name, address)
       values ('Matt', 'Damon', 'The Spanky Taylor Company 3727 Magnolia Suit CA');
insert into Persons (first name, last name, address)
       values ('Tom', 'Cruise', '1111 Calle Vista Dr, Beverly Hills, CA 90210');
insert into Persons (first_name, last_name, address)
       values ('Tom', 'Hanks', '1994 Gump Street, Santa Monica, CA');
insert into Persons (first name, last name, address)
       values ('Brad', 'Pitt', '32316 Pacific Coast Highway Malibu, CA');
insert into Persons (first name, last name, address)
       values ('Ridley', 'Scott', '634 La Peer Dr West Hollywood, CA');
insert into Persons (first_name, last_name, address)
       values ('Neil', 'Jordan', 'Waverly House Noel Street Lonsin W1F');
insert into Persons (first name, last name, address)
       values ('Guy', 'Hamilton', '225 Violet Ct Saxonburg, Pennsylvania 16056');
insert into Persons (first_name, last_name, address)
       values ('Robert', 'Zemeckis', '1569 E Valley Rd, Montecito, CA 93108');
-- SELECT * FROM Persons;
```

#### -- Actors --

insert into Actors (aid, last\_name, birth\_date, hair\_color, eye\_color, height\_inches, weight\_lbs, actors\_guild\_anniversary, favorite\_color, spouse\_name)

values (1, 'Connery', '8/25/1931', 'brown', 'green', 74, 180, '5/11/1980', 'Green', 'Samantha');

insert into Actors (aid, last\_name, birth\_date, hair\_color, eye\_color, height\_inches, weight\_lbs, actors\_guild\_anniversary, favorite\_color, spouse\_name)

values (2, 'Damon', '10/08/1970', 'brown', 'blue', 70, 175, '10/06/1990', 'White', 'Angela'); insert into Actors (aid, last\_name, birth\_date, hair\_color, eye\_color, height\_inches, weight\_lbs, actors\_guild\_anniversary, favorite\_color, spouse\_name)

values (3, 'Cruise', '7/3/1962', 'dark brown', 'light blue', 72, 165, '04/16/1996', 'Black', 'Courtney');

insert into Actors (aid, last\_name, birth\_date, hair\_color, eye\_color, height\_inches, weight\_lbs, actors\_guild\_anniversary, favorite\_color, spouse\_name)

values (4, 'Hanks', '7/9/1953', 'brown', 'blue', 70, 175, '01/23/74', 'Blue', 'Alexis'); insert into Actors (aid, last\_name, birth\_date, hair\_color, eye\_color, height\_inches, weight\_lbs, actors\_guild\_anniversary, favorite\_color, spouse\_name)

values (5, 'Pitt', '10/18/1963', 'brown', 'blue', 70, 175, '08/29/1995', 'Orange', 'Rebecca');

#### SELECT \* FROM Actors;

#### -- Directors --

insert into Directors (did, last\_name, film\_school\_attended, directors\_guild\_anniversary, spouse\_name, fav\_lens\_maker)

values (1, 'Hamilton', 'New York Film Academy', '02/13/1962', 'Elizabeth', 'Zeiss'); insert into Directors (did, last\_name, film\_school\_attended, directors\_guild\_anniversary, spouse\_name, fav\_lens\_maker)

values (2, 'Scott', 'American Film Institute', '04/30/1983', 'Meghan', 'Olympus'); insert into Directors (did, last\_name, film\_school\_attended, directors\_guild\_anniversary, spouse name, fav lens maker)

values (3, 'Jordan', 'Boston University School of Arts', '08/03/1987', 'Katie', 'Pentax'); insert into Directors (did, last\_name, film\_school\_attended, directors\_guild\_anniversary, spouse\_name, fav\_lens\_maker)

values (4, 'Zemeckis', 'London College of Music', '10/30/1990', 'Caroline', 'Olympus');

#### SELECT \* FROM Directors;

#### -- Movies --

insert into Movies (movie\_name, year\_released, MPAA\_Rating, domestic\_box\_office\_sales\_usd, foreign\_box\_office\_sales\_usd, dvd\_bluray\_sales) values ('Forrest Gump', 1994, 'PG-13', 64000000, 15000000, 8679305); insert into Movies (movie\_name, year\_released, MPAA\_Rating, domestic\_box\_office\_sales\_usd, foreign\_box\_office\_sales\_usd, dvd\_bluray\_sales)

values ('Goldfinger', 1964, 'GP', 9000000, 15000000, 239386); insert into Movies (movie\_name, year\_released, MPAA\_Rating, domestic\_box\_office\_sales\_usd, foreign\_box\_office\_sales\_usd, dvd\_bluray\_sales) values ('Interview with the Vampire', 1994, 'R', 47000000, 520000000, 4369305); insert into Movies (movie\_name, year\_released, MPAA\_Rating, domestic\_box\_office\_sales\_usd, foreign\_box\_office\_sales\_usd, dvd\_bluray\_sales) values ('The Martian', 2015, 'PG-13', 37000000, 63000000, 9833861);

## -- SELECT \* FROM Movies;

insert into Actors\_Movies (aid, mid, last\_name, movie\_name) values (4, 1, 'Hanks', 'Forrest Gump');

insert into Actors\_Movies (aid, mid, last\_name, movie\_name) values (1, 2, 'Connery', 'Goldfinger');

insert into Actors\_Movies (aid, mid, last\_name, movie\_name) values (3, 3, 'Cruise', 'Interview with the Vampire');

insert into Actors\_Movies (aid, mid, last\_name, movie\_name) values (5, 3, 'Pitt', 'Interview with the Vampire');

insert into Actors\_Movies (aid, mid, last\_name, movie\_name) values (2, 4, 'Damon', 'The Martian');

# -- SELECT \* FROM Actors\_Movies;

insert into Directors\_Movies (did, mid, last\_name, movie\_name) values (4, 1, 'Zemeckis', 'Forrest Gump');

insert into Directors\_Movies (did, mid, last\_name, movie\_name) values (1, 2, 'Hamilton', 'Goldfinger');

insert into Directors\_Movies (did, mid, last\_name, movie\_name) values (3, 3, 'Jordan', 'Interview with the Vampire');

insert into Directors\_Movies (did, mid, last\_name, movie\_name) values (2, 4, 'Scott', 'The Martian');

## --SELECT \* FROM Directors\_Movies;

## **Functional Dependencies:**

pid  $\rightarrow$  first\_name, last\_name, address aid  $\rightarrow$  birth\_date, hair-color, eye\_color, height\_inches, weight\_lbs, actors\_guild\_anniversary, spouse\_name, fav\_color did  $\rightarrow$  film\_school\_attended, directors\_guild\_anniversary, spouse\_name, fav\_lens\_maker mid  $\rightarrow$  movie\_name, year\_released, domestic\_box\_office\_sales, foreign\_box\_office\_sales, dvd\_bluray\_sales

This SQL query displays the director with whom Sean Connery has worked, along with the movie title:

## SELECT D.\*

FROM Directors\_Movies D INNER JOIN Actors\_Movies A ON D.movie\_name = A.movie\_name WHERE A.last\_name = 'Connery'

;

# **ER Diagram:**

