



- 1.) Full size version of the E/R diagram is included in Git repository.
Note that links between tables Actors and People, and Directors and People are one-to-one links.
- 2.) (Full implementation in .sql file in Git repo)

```
create table People (  
    pid text primary key,  
    person_first_name text,  
    person_last_name text,  
    residence text  
);  
create table Actors(  
    pid text primary key references People(pid),  
    dob_unitedstates_format text, -- i.e. mm-dd-yy --  
    hair_color text,  
    eye_color text,  
    height_inches int,  
    weight_pounds int,  
    screen_actors_guild_anniversary_date_unitedstates_format text  
);  
create table Directors(  
    pid text primary key references People(pid),
```

```

        school_attended text,
        directors_guild_anniversary_date_unitedstates_format text
    );
create table Movies(
    mid text primary key,
    movie_name text,
    year_released int check ( year_released >= 1900 and year_released < 2100 ),
    domestic_box_office_sales_usd int,
    foreign_box_office_sales_usd int,
    dvd_bluray_sales_usd int
);
create table Castings(
    pid text references People(pid),
    mid text references Movies(mid)
);
create table MoviesDirectors(
    pid text references People(pid),
    mid text references Movies(mid)
);

```

3.) insert into People (pid, person_first_name, person_last_name, residence)

```

values ('p01', 'Ben', 'Affleck', 'Los Angeles'),
       ('p02', 'Leonardo', 'DiCaprio', 'Los Angeles'),
       ('p03', 'Keanu', 'Reeves', 'Hollywood'),
       ('p04', 'Sean', 'Connery', 'Bahamas'),
       ('p05', 'Gus', 'Van Sant', 'Portland'),
       ('p06', 'James', 'Cameron', 'Wairarapa'),
       ('p07', 'Lana', 'Wachowski', 'Chicago'),
       ('p08', 'Andrew', 'Wachowski', 'Chicago'),
       ('p09', 'Guy', 'Hamilton', 'Paris'),
       ('p10', 'Hugo', 'Weaving', 'Sydney');

```

insert into Actors (pid, dob_unitedstates_format, hair_color, eye_color, height_inches, weight_pounds, screen_actors_guild_anniversary_date_unitedstates_format)

```

values ('p01', '08-15-72', 'brown', 'brown', 76, NULL, '1-25-13'),
       ('p02', '11-11-74', 'brown', 'blue', 65, 168, '1-25-98'),
       ('p03', '09-02-64', 'brown', 'brown', 73, NULL, NULL),
       ('p04', '08-25-30', 'gray', 'brown', 75, NULL, NULL),
       ('p10', '04-04-60', 'brown', 'blue', 74, NULL, '1-25-04');

```

insert into Directors(pid, school_attended, directors_guild_anniversary_date_unitedstates_format)

```

values ('p01', 'Occidental College', '1-13-2012'),
       ('p05', 'Rhode Island School of Design', '1-13-2008'),
       ('p06', 'Fullerton College', '1-13-2009'),
       ('p07', 'Emerson College', NULL),
       ('p08', 'Bard College', NULL),
       ('p09', NULL, NULL);

```

insert into Movies (mid, movie_name, year_released, domestic_box_office_sales_usd, foreign_box_office_sales_usd, dvd_bluray_sales_usd)

```

values ('m01', 'Good Will Hunting', 1997, 138433435, 87500000, 485060),

```

```
('m02', 'Titanic', 1997, 658672302, 1528100000, 6328727),  
( 'm03', 'The Matrix', 1999, 171479930, 292037453, 1537785),  
( 'm04', 'Goldfinger', 1964, 51100000, 73800000, NULL),  
( 'm05', 'Argo', 2012, 136025503, 96300000, 38751906);
```

```
insert into Castings (pid, mid)
```

```
values ('p01', 'm01'),  
      ('p02', 'm02'),  
      ('p03', 'm03'),  
      ('p04', 'm04'),  
      ('p01', 'm05'),  
      ('p10', 'm03');
```

```
insert into MoviesDirectors (pid, mid)
```

```
values ('p05', 'm01'),  
      ('p06', 'm02'),  
      ('p07', 'm03'),  
      ('p08', 'm03'),  
      ('p09', 'm04'),  
      ('p01', 'm05');
```

4.) People.pid → person_first_name,
 person_last_name,
 residence

Actors.pid → dob_unitedstates_format,
 hair_color,
 eye_color,
 height_inches,
 weight_pounds,
 screen_actors_guild_anniversary_date_unitedstates_format

Directors.pid → school_attended,
 directors_guild_anniversary_date_unitedstates_format

Movies.mid → movie_name,
 year_released,
 domestic_box_office_sales_usd,
 foreign_box_office_sales_usd,
 dvd_bluray_sales_usd

5.)

```
select person_first_name, person_last_name  
from Directors d, People p  
where d.pid = p.pid  
and d.pid in (  
    select pid  
    from MoviesDirectors  
    where mid in (  
        select mid  
        from Castings
```

```
where pid in (  
    select pid  
    from People  
    where person_first_name = 'Sean'  
        and person_last_name = 'Connery'  
    )  
);
```