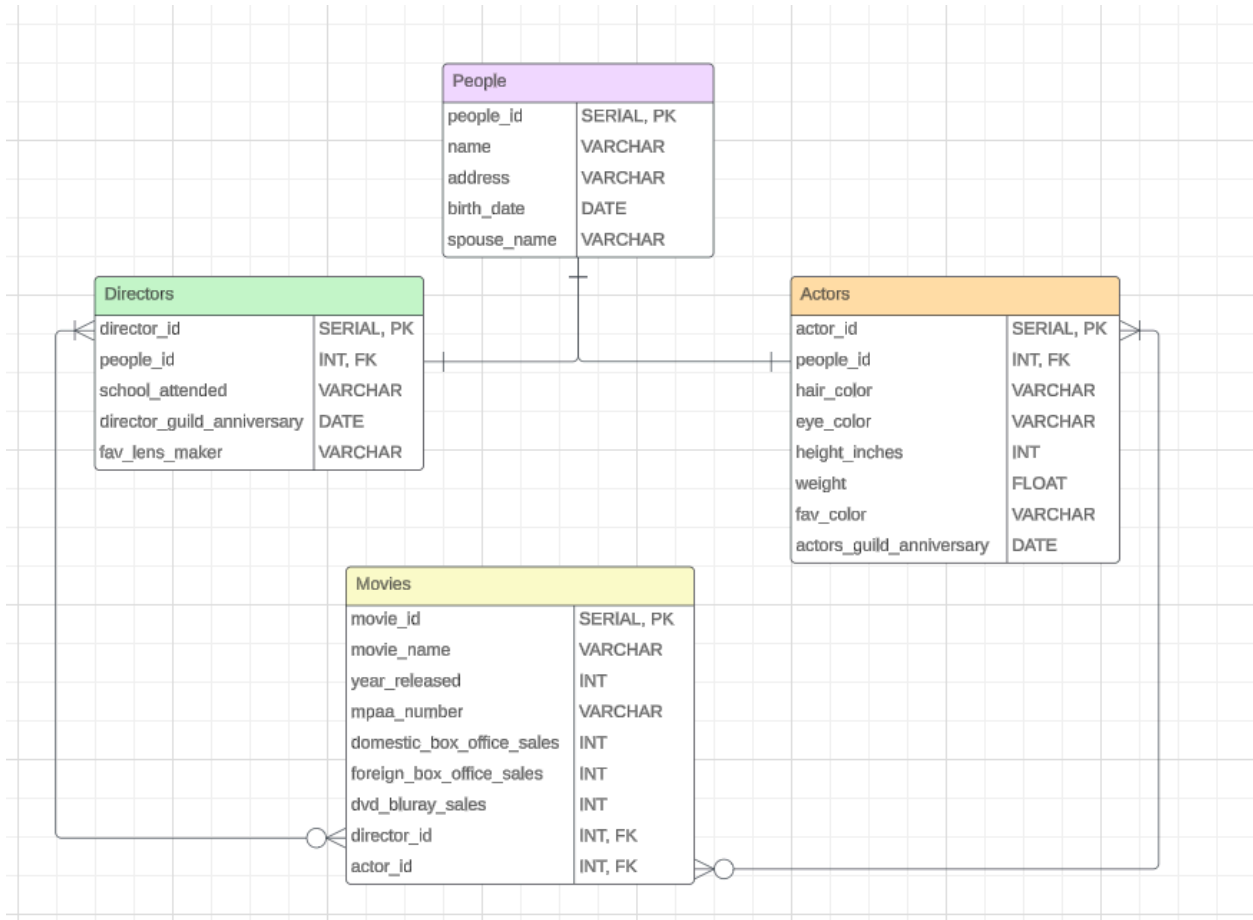


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Database Systems

## Lab 8 - Normalization pt.2

1.



2.

```
CREATE TABLE People (  
    people_id SERIAL PRIMARY KEY,  
    name VARCHAR(100) NOT NULL,  
    address VARCHAR(255),  
    birth_date DATE,  
    spouse_name VARCHAR(100)  
);  
  
CREATE TABLE Actors (  
    actor_id SERIAL PRIMARY KEY,  
    people_id INTEGER REFERENCES People(people_id),  
    hair_color VARCHAR(50),  
    eye_color VARCHAR(50),  
    height_inches INTEGER,  
    weight FLOAT,  
    favorite_color VARCHAR(50),  
    screen_actors_guild_anniversary DATE  
);  
  
CREATE TABLE Directors (  
    director_id SERIAL PRIMARY KEY,  
    people_id INTEGER REFERENCES People(people_id),  
    film_school_attended VARCHAR(100),  
    directors_guild_anniversary DATE,  
    favorite_lens_maker VARCHAR(100)  
);  
  
CREATE TABLE Movies (  
    movie_id SERIAL PRIMARY KEY,  
    name VARCHAR(100) NOT NULL,  
    year_released INTEGER,  
    mpaa_number VARCHAR(10),  
    domestic_box_office_sales INTEGER,  
    foreign_box_office_sales INTEGER,  
    dvd_bluray_sales INTEGER,  
    director_id INTEGER REFERENCES Directors(director_id),  
    actor_id INTEGER REFERENCES Actors(actor_id)  
);
```

3.

People:

- people\_id → name, address, birth\_date, spouse\_name
- name → people\_id

Actors:

- actor\_id → people\_id, hair\_color, eye\_color, height\_inches, weight, favorite\_color, screen\_actors\_guild\_anniversary
- people\_id → actor\_id

Directors:

- director\_id → people\_id, film\_school\_attended, directors\_guild\_anniversary, favorite\_lens\_maker
- people\_id → director\_id

Movies:

- movie\_id → name, year\_released, mpaa\_number, domestic\_box\_office\_sales, foreign\_box\_office\_sales, dvd\_bluray\_sales, director\_id, actor\_id
- director\_id → movie\_id
- actor\_id → movie\_id

4.

```
SELECT DISTINCT d.*
FROM People p
JOIN Actors a ON p.people_id = a.people_id
JOIN Movies m ON a.actor_id = m.actor_id
JOIN Directors d ON m.director_id = d.director_id
WHERE p.name = 'Roger Moore';
```