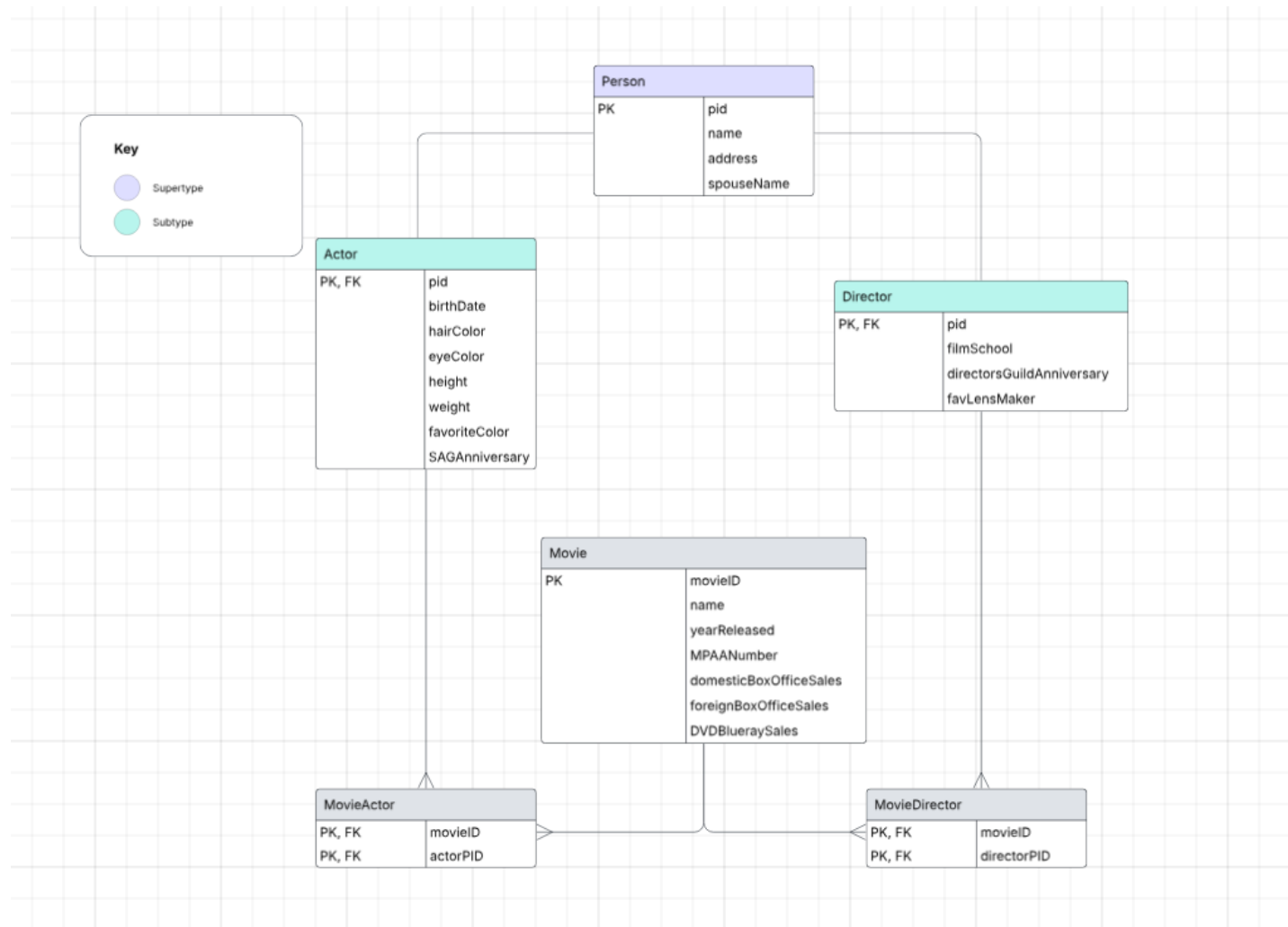


lab8-normalization2



1. 2.

```
CREATE TABLE Person (  
    pid INT PRIMARY KEY,  
    name VARCHAR(100),  
    address VARCHAR(255),  
    spouseName VARCHAR(100)  
);
```

```
CREATE TABLE Actor (  
    pid INT PRIMARY KEY,  
    birthDate DATE,  
    hairColor VARCHAR(50),  
    eyeColor VARCHAR(50),  
    height INT,  
    weight DECIMAL(5,2),  
    favoriteColor VARCHAR(50),  
    SAGAnniversary DATE,  
    FOREIGN KEY (pid) REFERENCES Person(pid)  
);
```

```
CREATE TABLE Director (  
    pid INT PRIMARY KEY,  
    filmSchool VARCHAR(100),  
    directorsGuildAnniversary DATE,  
    favLensMaker VARCHAR(100),  
    FOREIGN KEY (pid) REFERENCES Person(pid)  
);
```

```
CREATE TABLE Movie (  
    movieID INT PRIMARY KEY,  
    name VARCHAR(255),  
    yearReleased INT,  
    MPAAnumber VARCHAR(10),  
    domesticSales DECIMAL(15,2),  
    foreignSales DECIMAL(15,2),  
    DVDBluraySales DECIMAL(15,2)  
);
```

```

CREATE TABLE MovieActor (
    movieID INT,
    actorPID INT,
    PRIMARY KEY (movieID, actorPID),
    FOREIGN KEY (movieID) REFERENCES Movie(movieID),
    FOREIGN KEY (actorPID) REFERENCES Actor(pid)
);

CREATE TABLE MovieDirector (
    movieID INT,
    directorPID INT,
    PRIMARY KEY (movieID, directorPID),
    FOREIGN KEY (movieID) REFERENCES Movie(movieID),
    FOREIGN KEY (directorPID) REFERENCES Director(pid)
);

```

3.

- **Person:** pid → name, address, spouseName
- **Actor:** pid → birthDate, hairColor, eyeColor, height, weight, favoriteColor, SAGAnniversary
- **Director:** pid → filmSchool, directorsGuildAnniversary, favLensMaker
- **Movie:** movieID → name, yearReleased, MPAAnumber, domesticSales, foreignSales, DVDBluraySales
- **MovieActor:** (movieID, actorPID) → movieID, actorPID
- **MovieDirector:** (movieID, directorPID) → movieID, directorPID

4.

SELECT DISTINCT p2.name AS directorName

FROM Person p1

JOIN Actor a ON p1.pid = a.pid

JOIN MovieActor ma ON a.pid = ma.actorPID

JOIN MovieDirector md ON ma.movieID = md.movieID

JOIN Director d ON md.directorPID = d.pid

JOIN Person p2 ON d.pid = p2.pid

WHERE p1.name = 'Roger Moore';