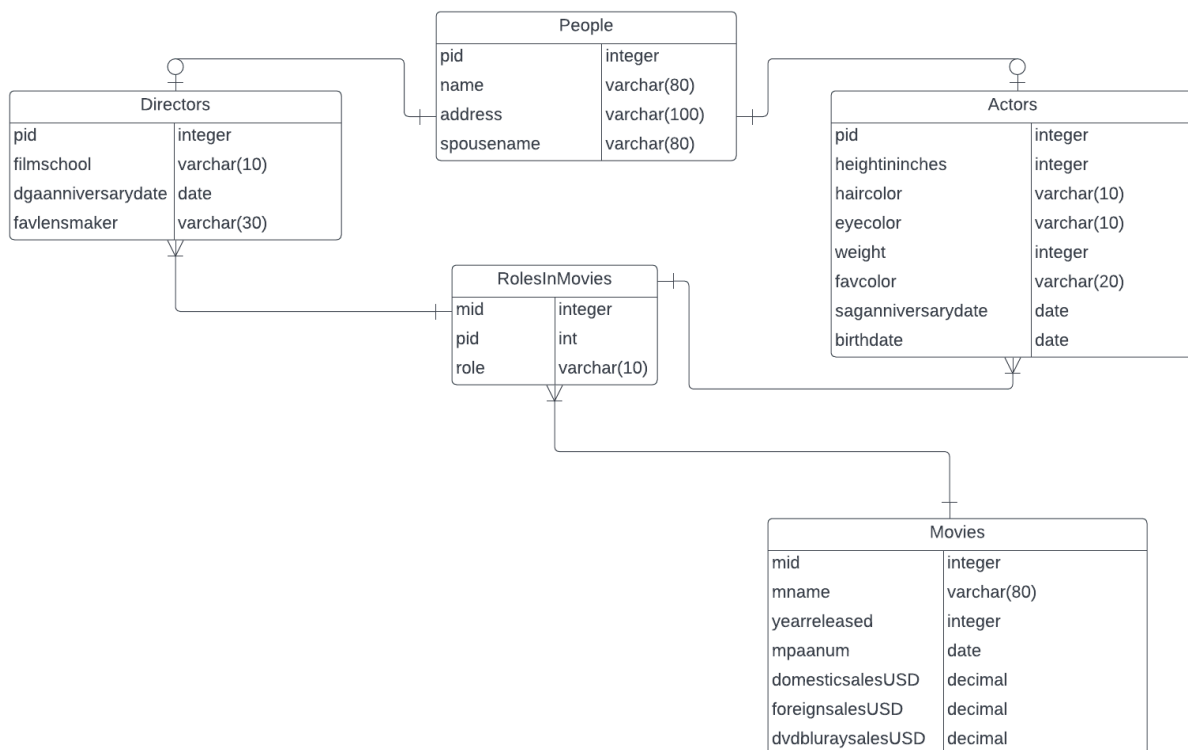


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## Lab 08: Normalization

### E/R Diagram



### SQL Create Statements

#### People

#### Established key for people in the database

```
CREATE TABLE People(  
    pid    INTEGER UNIQUE NOT NULL,  
    name   VARCHAR (80) NOT NULL,  
    address VARCHAR (100) NOT NULL,  
    spousesname VARCHAR (80),  
    PRIMARY KEY (pid)  
);
```

## **Actors**

### **Established subtype for People who are actors)**

```
CREATE TABLE Actors(  
    pid    INTEGER UNIQUE NOT NULL REFERENCES People(pid),  
    heightinches  VARCHAR (80) NOT NULL,  
    haircolor  VARCHAR (10) NOT NULL,  
    eyecolor  VARCHAR (10) NOT NULL,  
    weight    INTEGER NOT NULL,  
    favcolor  VARCHAR (10) NOT NULL,  
    saganniversarydate DATE NOT NULL,  
    birthdate DATE NOT NULL,  
    PRIMARY KEY(pid)  
);
```

## **Directors**

Established subtype for People who are directors

```
CREATE TABLE Directors(  
    pid    INTEGER UNIQUE NOT NULL REFERENCES People(pid),  
    filmschool  VARCHAR (10) NOT NULL,  
    dgaanniversarydate DATE NOT NULL,  
    favlensmaker  VARCHAR (30) NOT NULL,  
    PRIMARY KEY(pid)  
);
```

## **Movies**

Creates key for movies that can be referenced in the table

```
CREATE TABLE Movies(  
    mid    INTEGER UNIQUE NOT NULL,  
    mname  VARCHAR(80) NOT NULL,  
    yearreleased  INTEGER NOT NULL,  
    mpaanum  INTEGER NOT NULL,  
    domesticsalesUSD DECIMAL NOT NULL,  
    foreignsalesUSD DECIMAL NOT NULL,  
    dvdbluraysalesUSD DECIMAL NOT NULL,  
    PRIMARY KEY(mid)  
);
```

## **RolesInMovies**

Links both movies and people together using a combination key(similar to Lab 7), uses role to separate actors from directors in case someone is an actor in one film and a director in another.

```
CREATE TABLE RolesInMovies(  
    pid  INTEGER UNIQUE NOT NULL REFERENCES People(pid),
```

$$);$$

## People

- ## Actors

- ## Directors

- ## RolesInMovies

- ## Movies

- [illegible]