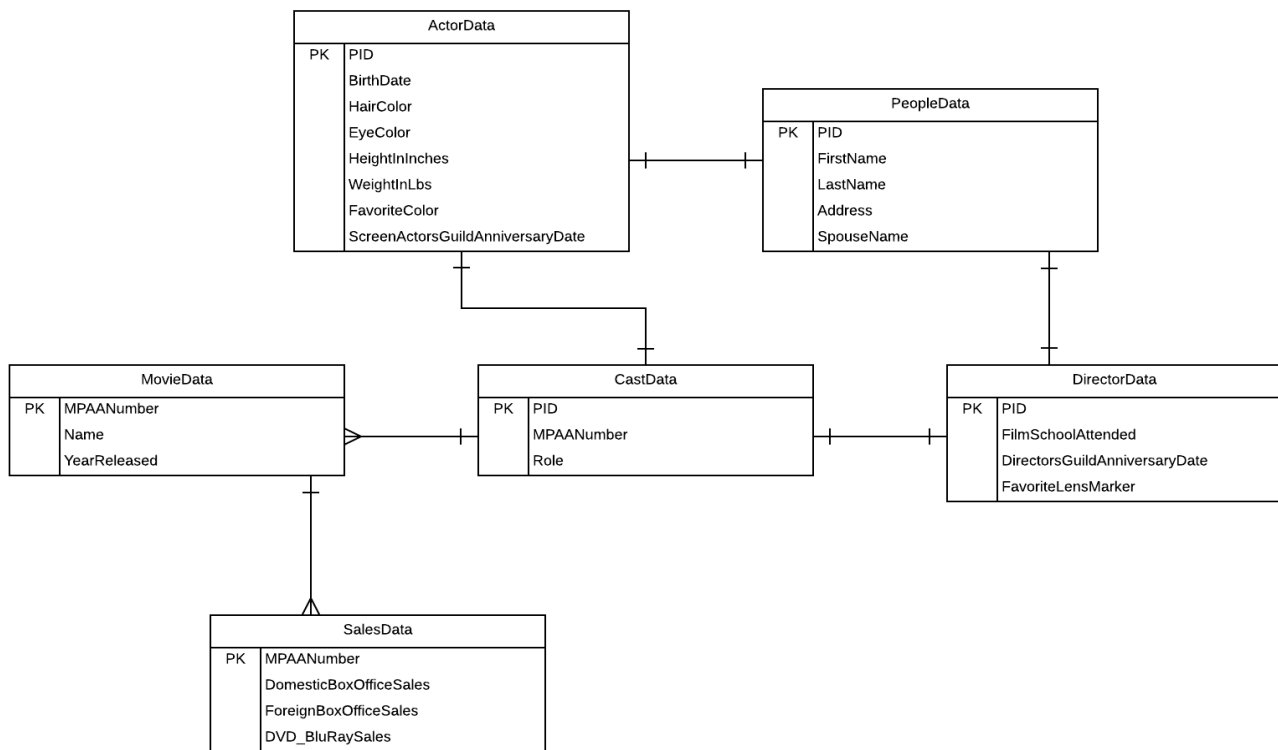


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Database Management

Lab 8: Normalization Two

#1 – E/R DIAGRAM



#2 – SQL CREATE STATEMENTS

```
DROP TABLE IF EXISTS ActorData;  
DROP TABLE IF EXISTS DirectorData;  
DROP TABLE IF EXISTS PeopleData;  
DROP TABLE IF EXISTS MovieData;  
DROP TABLE IF EXISTS SalesData;  
DROP TABLE IF EXISTS CastData;
```

```
CREATE TABLE ActorData (  
    PID int,  
    BirthDate date,  
    HairColor varchar(255),  
    EyeColor varchar(255),  
    HeightInInches int,  
    Weight int,  
    FavoriteColor varchar(255),  
    ScreenActorsGuildAnniversaryDate date  
);
```

```
CREATE TABLE DirectorData (  
    PID int,  
    FilmSchoolAttended varchar(255),  
    DirectorsGuildAnniversaryDate date,  
    FavoriteLensMaker varchar(255)  
);
```

```
CREATE TABLE PeopleData (  
    PID int,  
    FirstName varchar(255),  
    LastName varchar(255),  
    Address varchar(255),  
    SpouseName varchar(255)  
);
```

```
CREATE TABLE MovieData (  
    MPAAANumber int,  
    MovieName varchar(255),  
    YearReleased int  
);
```

```
CREATE TABLE SalesData (  
    MPAAANumber int,  
    DomesticBoxOfficeSales int,  
    ForeignBoxOfficeSales int,  
    DVD_Blu_RaySales int  
);
```

```
CREATE TABLE CastData (  
    PID int,  
    MPAAANumber int,  
    FirstName varchar(255),  
    LastName varchar(255)  
);
```

#3 – FUNCTIONAL DEPENDENCIES

Functional Dependencies for the ActorData Table...

{PID} → {BirthDate, HairColor, EyeColor, HeightInInches, WeightInLbs, FavoriteColor, ScreenActorsGuildAnniversaryDate}

Functional Dependencies for the DirectorData Table...

{PID} → {FilmSchoolAttended, DirectorsGuildAnniversaryDate, FavoriteLensMaker}

Functional Dependencies for the PeopleData Table...

{PID} → {FirstName, LastName, Address, SpouseName}

Functional Dependencies for the MovieData Table...

{MPAANumber} → {Name, YearReleased}

Functional Dependencies for the SalesData Table...

{MPAANumber} → {DomesticBoxOfficeSales, ForeignBoxOfficeSales, DVD_BluRaySales}

Functional Dependencies for the CastData Table...

{ } → {PID, MPAANumber, Role}

#4 – QUERY EXAMPLE

```
SELECT D.PID
FROM DirectorData D INNER JOIN ActorData A ON D.PID = A.PID
WHERE FirstName = 'Roger'
      AND LastName = 'Moore';
```