

```
DROP TABLE IF EXISTS Movies;
DROP TABLE IF EXISTS Directors;
DROP TABLE IF EXISTS Actors;
DROP TABLE IF EXISTS Persons;
```

---Persons Table

```
CREATE TABLE Persons(
Pid SERIAL,
Aid INT,
Did INT,
Name TEXT NOT NULL,
Address TEXT NOT NULL,
PRIMARY KEY(Pid)
);
```

-- Movies Table

```
CREATE TABLE Movies(
Mid SERIAL,
Main_Actor TEXT NOT NULL,
Main_Director TEXT NOT NULL,
name TEXT NOT NULL,
Release_Date DATE NOT NULL,
Domestic_Sales INT,
Foreign_Sales INT,
DVDBluray_Sales INT,
PRIMARY KEY(Mid)
);
```

-- Directors Table

```
CREATE TABLE Directors(
Did SERIAL REFERENCES Persons(Pid),
Film_School TEXT ,
DirectorsGuild_Date INT NOT NULL,
Height_Inches INT NOT NULL,
Weight_LBS INT NOT NULL,
Eye_Color TEXT NOT NULL,
Hair_Color TEXT NOT NULL,
PRIMARY KEY(Did)
);
```

-- Actors Table

```
CREATE TABLE Actors(
Aid SERIAL REFERENCES Persons(Pid),
Height_Inches INT NOT NULL,
Weight_LBS INT NOT NULL,
Hair_Color TEXT NOT NULL,
Eye_Color TEXT NOT NULL,
```

```

ActorsGuild_Date INT NOT NULL,
PRIMARY KEY(Aid));
--Insert Persons
INSERT INTO Persons (Name, Address)
VALUES ('James Cameron', '15 Hollywood Ln'),
       ('Steven Spielberg', '16 Hollywood Ln'),
       ('Sean Connery', '007 Hollywood Ln'),
       ('Harrison Ford', '10 Hollywood Ln');

--Insert Directors
INSERT INTO Directors(Film_School, DirectorsGuild_Date, Height_Inches, Weight_LBS, Eye_Color,
                     Hair_Color)
VALUES ('Fullerton College', '1976', '74', '195', 'blue', 'gray'),
       ('California State University', '1963', '68', '198', 'brown', 'brown');

--Insert Actors
INSERT INTO Actors(Height_Inches, Weight_LBS, Hair_Color, Eye_Color, ActorsGuild_Date)
VALUES ('74', '180', 'brown', 'brown', '1954'),
       ('73', '175', 'brown', 'green', '1966');

--Insert Movies
INSERT INTO Movies(Main_Actor, Main_Director, Name, Release_Date, Domestic_Sales,
                  Foreign_Sales,DVDBluray_Sales)
VALUES ('Harrison Ford', 'Steven Spielberg', 'The Last Crusade', '1989-05-29', '450000000',
       '20000000', '0000000'),
       ('Sean Connery', 'Guy Hamilton', 'GoldFinger', '1964-09-18', '100000000', '2000000',
       '1000000');

SELECT * FROM Persons
UNION ALL
SELECT * FROM Actors

```

**Functional Dependencies:** All non-primary key columns are individually dependent on the Primary key in its respective table.

```

SELECT * FROM Directors
WHERE aid IN
      (SELECT aid FROM Persons
       WHERE Name = 'Sean Connery');

```

--This gets all information from all the directors that have worked with sean connery. In my specific set up it returns no results, because that data doesn't exist in the current snapshot of the database.