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CMPT_308L_200_16S

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13 April 2016

Lab 8

```
DROP TABLE IF EXISTS Movies;
DROP TABLE IF EXISTS CastandCrew;
DROP TABLE IF EXISTS People;
DROP TABLE IF EXISTS Addresses;
DROP TABLE IF EXISTS Directors;
DROP TABLE IF EXISTS Actors;
```

-- Movies --

```
CREATE TABLE Movies (
    mID char(100) not null,
    mName text,
    mYear date,
    mMpaa integer,
    mDomesticBoxOffice numeric(12,2),
    mForeignBoxOffice numeric(12,2),
    mDvdBluraySales numeric(12,2),
    PRIMARY KEY (mID)
);
```

--CastandCrew--

```
CREATE TABLE CastandCrew (
    pID char(100) not null references People(pID),
    mID char(100) not null references Movies(mID),
    job text,
    PRIMARY KEY(pID, mID),
);
```

--People--

```
create table people (
    pID char(100) not null,
    pName text,
    pAddress varchar(100),
    pSpouseName text,
    PRIMARY KEY (pid)
);
```

--Addresses--

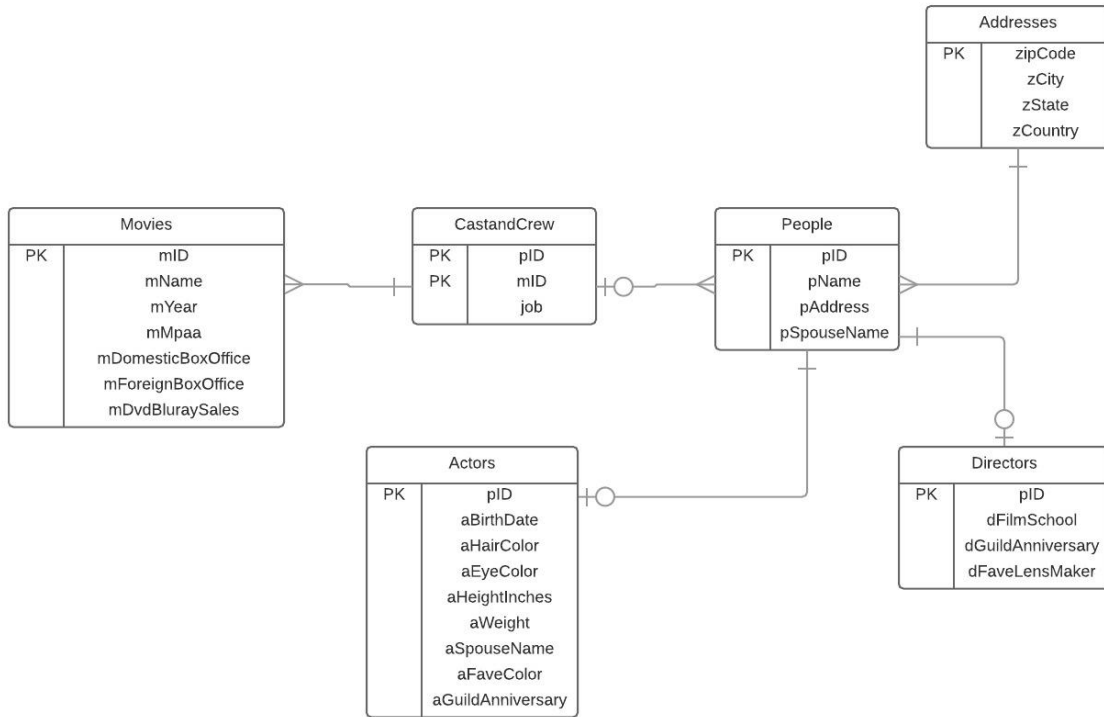
```
CREATE TABLE Addresses (  
    zipCode integer not null,  
    zCity text,  
    zState text,  
    zCountry text,  
    PRIMARY KEY (zipCode)  
);
```

--Directors--

```
CREATE TABLE Directors (  
    dID char(100) not null,  
    dFilmSchool text,  
    dGuildAnniversary date,  
    dFaveLensMaker text,  
    PRIMARY KEY (dID)  
);
```

--Actors--

```
CREATE TABLE Actors (  
    aID char(100) not null,  
    aBirthDate date,  
    aHairColor text,  
    aEyeColor text,  
    aHeightInches numeric(2,2),  
    aWeight numeric(3,2),  
    aSpouseName text,  
    aFaveColor text,  
    aGuildAnniversary date,  
    PRIMARY KEY (aID)  
);
```



Functional Dependencies:

Movies Table:

$mID \rightarrow mName, mYear, mMpaa, mDomesticBoxOffice, mForeignBoxOffice, mDvdBluraySales$

CastandCrew Table:

$(pID, mID) \rightarrow job$

People Table:

$pID \rightarrow pName, pAddress, pSpouseName$

Addresses Table:

$zipCode \rightarrow zCity, zState, zCountry$

Directors Table:

$pID \rightarrow dFilmSchool, dGuildAnniversary, dFaveLensMaker$

Actors Table:

$pID \rightarrow aBirthDate, aHairColor, aEyeColor, aHeightInches, aWeight, aSpouseName, aFaveColor, aGuildAnniversary$

Query to show all the directors with whom actor "Keanu Reeves" has worked.

```
SELECT pID
FROM Directors
WHERE mID IN (
    SELECT mID
    FROM Actors
    WHERE pID IN (
        SELECT pID
        FROM People
        WHERE Name = "Keanu Reeves"
    )
);
```