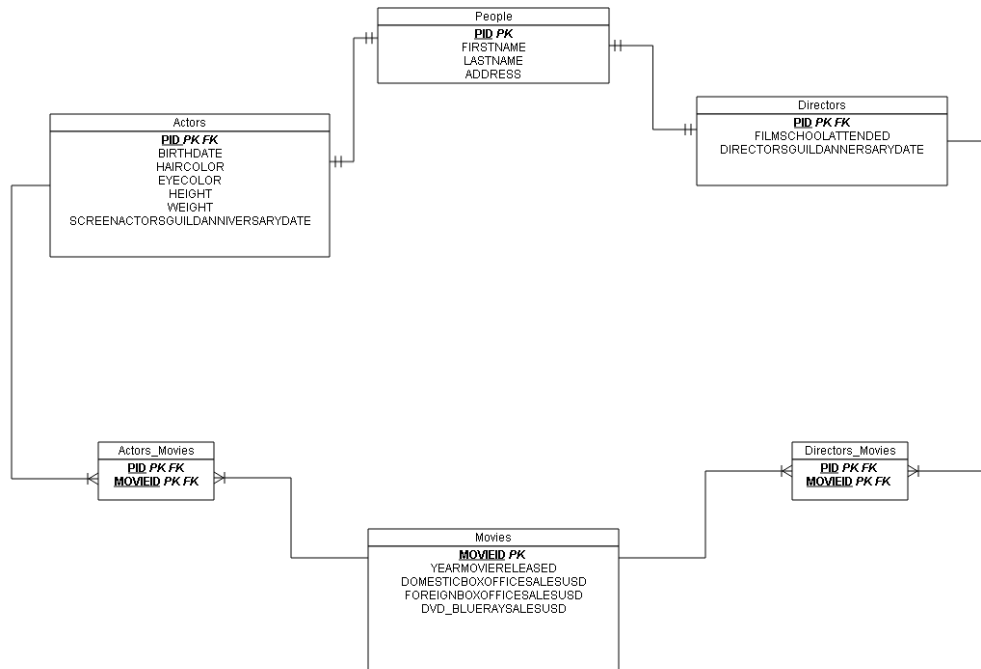


Joseph Archer
11/04/13

1. E/R Diagram



2. Create Statements

-- Create People Table
DROP TABLE IF EXISTS people;

```
CREATE TABLE people (  
    PID INT not null,  
    FIRSTNAME VARCHAR(255) not null,  
    LASTNAME VARCHAR(255) not null,  
    ADDRESS VARCHAR(255) not null,  
    PRIMARY KEY(PID)  
);
```

-- Create Actors Table

DROP TABLE IF EXISTS actors;

```
CREATE TABLE actors (  
    PID                                INT not null,  
    BIRTHDATE                         DATE not null,  
    HAIRCOLOR                         VARCHAR (255),  
    EYECOLOR                          VARCHAR (255),  
    HEIGHT                           FLOAT not null,  
    WEIGHT                           FLOAT not null,  
    SCREENACTORSGUILDANNIVERSARYDATE DATE,  
    PRIMARY KEY(PID),  
    FOREIGN KEY (PID) references people(PID)  
);
```

-- Create Directors Table

DROP TABLE IF EXISTS directors;

```
CREATE TABLE directors (  
    PID                                INT not null,  
    FILMSCHOOLATTENDED               VARCHAR (255),  
    DIRECTORSGUILDANNIVERSARYDATE    DATE,  
    PRIMARY KEY(PID),  
    FOREIGN KEY (PID) references people(PID)  
);
```

--Create Movies Table

DROP TABLE IF EXISTS movies;

```
CREATE TABLE movies (  
    MOVIEID                           INT not null,  
    MOVIEName                         VARCHAR(255) not null,  
    YEARMOVIERELEASED                 INT not null ,  
    DOMESTICBOXOFFICESALESUSD          FLOAT ,  
    FOREIGNBOXOFFICESALESUSD           FLOAT ,  
    DVD_BLUERAYSALESUSD                FLOAT ,
```

```
PRIMARY KEY (MOVIEID)
);
```

```
--Create actors_movies Table
```

```
CREATE TABLE actors_movies (
    PID                                INT not null references actors(PID) ,
    MovieID                           INT not null references movies(MOVIEID) ,
    Primary Key (PID,MOVIEID)
);
```

```
--Create directors_movies Table
```

```
DROP TABLE IF EXISTS directors_movies;
```

```
CREATE TABLE directors_movies (
    PID                                INT not null references directors(PID) ,
    MovieID                           INT not null references movies(MOVIEID) ,
    Primary Key (PID,MOVIEID)
);
```

3. Insert Statements

```
-- People
```

```
INSERT INTO people (PID , FIRSTNAME , LASTNAME, ADDRESS)
VALUES ('1' , 'Joe' , 'Archer' , '240 Short Hill Drive Bridgewater New Jersey');
```

```
INSERT INTO people (PID , FIRSTNAME , LASTNAME, ADDRESS)
VALUES ('2' , 'Steve' , 'Archer' , '59 Woods End Road Basking Ridge New Jersey');
```

```
INSERT INTO people (PID , FIRSTNAME , LASTNAME, ADDRESS)
VALUES ('3' , 'Sean' , 'Connery' , '738 Crest Oak Road Summit New Jersey');
```

```
INSERT INTO people (PID , FIRSTNAME , LASTNAME, ADDRESS)
VALUES ('4' , 'Dan' , 'Lopez' , '1313 River Street Corning New York');
```

```
INSERT INTO people (PID , FIRSTNAME , LASTNAME, ADDRESS)
VALUES ('5' , 'Alex' , 'Crudo' , '1313 Fairy Road Crow Nest Montana');
```

```
INSERT INTO people (PID , FIRSTNAME , LASTNAME, ADDRESS)
VALUES ('6' , 'Tony' , 'Dasilva' , '112 Victory Lane Bridewater Maine');
```

```
INSERT INTO people (PID , FIRSTNAME , LASTNAME, ADDRESS)
VALUES ('7' , 'Jim' , 'Connelly' , '1324 Kirkland Road Buffalo New York');
```

```
INSERT INTO people (PID , FIRSTNAME , LASTNAME, ADDRESS)
VALUES ('8' , 'Tom' , 'Smith' , 'First Road Ashville Texas');
```

```
INSERT INTO people (PID , FIRSTNAME , LASTNAME, ADDRESS)
VALUES ('9' , 'Bob' , 'Kelly' , '876 Crest Oak Street Somerset New Florida');
```

-- ACTORS

```
INSERT INTO actors (PID , BIRTHDATE , HAIRCOLOR, EYECOLOR , HEIGHT , WEIGHT ,
SCREENACTORSGUILDANNIVERSARYDATE)
VALUES ('1' , '19931015' , 'Black' , 'Black' , '5.5' , '120' , '20001213' );
```

```
INSERT INTO actors (PID , BIRTHDATE , HAIRCOLOR, EYECOLOR , HEIGHT , WEIGHT ,
SCREENACTORSGUILDANNIVERSARYDATE)
VALUES ('2' , '19600512' , 'Brown' , 'Black' , '5.6' , '250' , '20011213' );
```

```
INSERT INTO actors (PID , BIRTHDATE , HAIRCOLOR, EYECOLOR , HEIGHT , WEIGHT ,
SCREENACTORSGUILDANNIVERSARYDATE)
VALUES ('3' , '19300825' , 'Grey' , 'Black' , '60' , '200' , '19750217' );
```

-- DIRECTORS

```
INSERT INTO directors (PID, FILMSCHOOLATTENDED,
DIRECTORSGUILDANNIVERSARYDATE )
VALUES ('4' , 'Luxburg' , '20011213');
```

```
INSERT INTO directors (PID, FILMSCHOOLATTENDED,
DIRECTORSGUILDANNIVERSARYDATE )
VALUES ('5' , 'Crowsfeet' , '19951209');
```

```
INSERT INTO directors (PID, FILMSCHOOLATTENDED,
DIRECTORSGUILDANNIVERSARYDATE )
VALUES ('6' , 'School Of Lights' , '20031215');
```

-- MOVIES

```
INSERT INTO movies (MOVIEID , MOVIEName , YEARMOVIERELEASED ,  
DOMESTICBOXOFFICESALESUSD , FOREIGNBOXOFFICESALESUSD ,  
DVD_BLUERAYSALSUSD)  
VALUES ('1','MOVIE 1' , '1991' , '12.11' , '123.11' , '23.23');
```

```
INSERT INTO movies (MOVIEID , MOVIEName , YEARMOVIERELEASED ,  
DOMESTICBOXOFFICESALESUSD , FOREIGNBOXOFFICESALESUSD ,  
DVD_BLUERAYSALSUSD)  
VALUES ('2','MOVIE 2' , '1992' , '12.11' , '123.11' , '23.23');
```

```
INSERT INTO movies (MOVIEID , MOVIEName , YEARMOVIERELEASED ,  
DOMESTICBOXOFFICESALESUSD , FOREIGNBOXOFFICESALESUSD ,  
DVD_BLUERAYSALSUSD)  
VALUES ('3','MOVIE 3' , '1993' , '12.11' , '123.11' , '23.23');
```

-- directors_movies

```
INSERT INTO directors_movies(MOVIEID ,PID)  
VALUES ( '1' , '4' );
```

```
INSERT INTO directors_movies(MOVIEID ,PID)  
VALUES ( '2' , '5' );
```

```
INSERT INTO directors_movies(MOVIEID ,PID)  
VALUES ( '3' , '6' );
```

--actors_movies

```
INSERT INTO actors_movies(MOVIEID ,PID)  
VALUES ( '1' , '1' );
```

```
INSERT INTO actors_movies(MOVIEID ,PID)  
VALUES ( '2' , '2' );
```

```
INSERT INTO actors_movies(MOVIEID ,PID)  
VALUES ( '3' , '3' );
```

4. **-- Functional Dependencies --**

-- TABLE People

(PID) → FIRSTNAME , LASTNAME , ADDRESS

-- TABLE Actors

(PID) → BIRTHDATE , HAIRCOLOR, EYECOLOR , HEIGHT , WEIGHT
,SCREENACTORSGUILDANNIVERSARYDATE

-- TABLE Directors

(PID) → FILMSCHOOLATTENDED,
DIRECTORSGUILDANNIVERSARYDATE

-- TABLE Movies

(MOVIEID) → MOVIEName , YEARMOVIERELEASED , DOMESTICBOXOFFICESALESUSD ,
FOREIGNBOXOFFICESALESUSD , DVD_BLUERAYSalesUSD

-- Actors_Movies

(PID , MOVIEID) →

-- Directors_Movies

(PID , MOVIEID) →

5.

-- The Query

```
Select distinct LASTNAME , FIRSTNAME
from people
where pid In (
    select pid
    from directors_movies
    where movieid IN (
        select movieid
        from actors_movies
        where pid IN (
            Select pid
            from people
            where lastname = 'Connery' and pid IN (
                Select pid
                from people
                where firstname = 'Sean')
            )
        )
    )
)
```