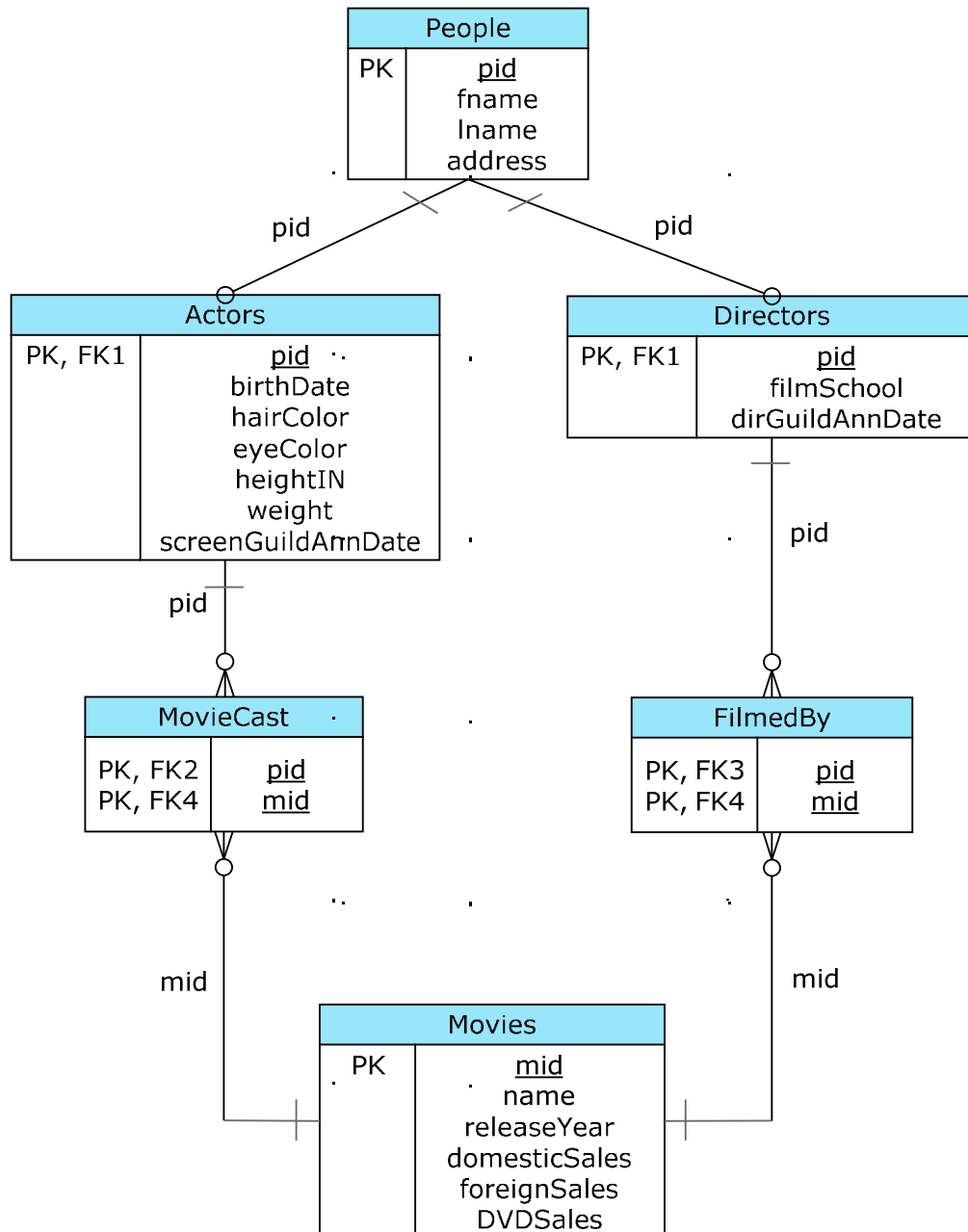


Normalization Homework 2

Database Management

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E-R diagram



Create statements for each table

--People

```
CREATE TABLE People(  
    pid      int  NOT NULL primary key,  
    fname   text NOT NULL,  
    lname   text NOT NULL,  
    address text NOT NULL  
);
```

--Actors

```
CREATE TABLE Actors(  
    pid          int  NOT NULL references People(pid),  
    birthDate    Date NOT NULL,  
    hairColor    text NOT NULL,  
    eyeColor     text NOT NULL,  
    heightIN     int  NOT NULL,  
    weight       int  NOT NULL,  
    screenGuildAnnDate Date NOT NULL,  
    primary key(pid)  
);
```

--Directors

```
CREATE TABLE Directors(  
    pid          int  NOT NULL references People(pid),  
    filmSchool   text NOT NULL,  
    dirGuildAnnDate Date NOT NULL,  
    primary key(pid)  
);
```

--Movies

```
CREATE TABLE Movies(  
    mid          int  NOT NULL primary key,  
    name         text NOT NULL,  
    releaseYear  int  NOT NULL,  
    domesticSales int  NOT NULL,  
    foreignSales int  NOT NULL,  
    DVDSales     int  NOT NULL  
);
```

```
--MovieCast - connection table of Actors/Movies
CREATE TABLE MovieCast(
    pid int NOT NULL references Actors(pid),
    mid int NOT NULL references Movies(mid),
    primary key(pid, mid)
);
```

```
--FilmedBy - connection table of Directors/Movies
CREATE TABLE FilmedBy(
    pid int NOT NULL references Directors(pid),
    mid int NOT NULL references Movies(mid),
    primary key(pid, mid)
);
```

Insert statements

```
--Insert into People
INSERT INTO People( pid, fname, lname, address )
VALUES(001, 'Summer', 'Glau', '321 Main St. San Antonio, Texas');

INSERT INTO People( pid, fname, lname, address )
VALUES(002, 'Nikol', 'Pettine', 'Kyoto, Japan');

INSERT INTO People( pid, fname, lname, address )
VALUES(003, 'Daniel', 'Craig', '123 Abby Rd. England');

INSERT INTO People( pid, fname, lname, address )
VALUES(004, 'Will', 'Smith', 'LA, California');

INSERT INTO People( pid, fname, lname, address )
VALUES(005, 'Angelina', 'Jolie', 'LA, California');

INSERT INTO People( pid, fname, lname, address )
VALUES(006, 'Tara', 'Strong', 'Toronto, Ontario, Canada');

INSERT INTO People( pid, fname, lname, address )
VALUES(007, 'Sean', 'Connery', 'Scotland');

--Directors (Eastwood, Foster, Abrams, Whedon = both actors and directors)
INSERT INTO People( pid, fname, lname, address )
```

```
VALUES(008, 'Clint', 'Eastwood', 'San Francisco, California');
```

```
INSERT INTO People( pid, fname, lname, address )  
VALUES(009, 'Jodie', 'Foster', 'LA, California');
```

```
INSERT INTO People( pid, fname, lname, address )  
VALUES(010, 'J. J.', 'Abrams', 'LA, California');
```

```
INSERT INTO People( pid, fname, lname, address )  
VALUES(011, 'Steven', 'Spielberg', 'Cincinnati, Ohio');
```

```
INSERT INTO People( pid, fname, lname, address )  
VALUES(012, 'Joss', 'Whedon', 'NY, New York');
```

```
INSERT INTO People( pid, fname, lname, address )  
VALUES(013, 'Tim', 'Burton', 'Burbank, California');
```

```
INSERT INTO People( pid, fname, lname, address )  
VALUES(014, 'Alfred', 'Hitchcock', 'Leytonstone, Essex, England');
```

```
INSERT INTO People( pid, fname, lname, address )  
VALUES(015, 'James', 'Cameron', 'Kapuskasing, Ontario, Canada');
```

```
INSERT INTO People( pid, fname, lname, address )  
VALUES(016, 'Guy', 'Hamilton', 'Paris, France');
```

--Insert into Actors

```
INSERT INTO Actors( pid, birthDate, hairColor, eyeColor, heightIN, weight, screenGuildAnnDate )  
VALUES(001, '7/24/1981', 'brown', 'brown', 66, 120, '1/1/2000');
```

```
INSERT INTO Actors( pid, birthDate, hairColor, eyeColor, heightIN, weight, screenGuildAnnDate )  
VALUES(002, '3/25/1994', 'brown', 'brown', 60, 124, '10/30/2013');
```

```
INSERT INTO Actors( pid, birthDate, hairColor, eyeColor, heightIN, weight, screenGuildAnnDate )  
VALUES(003, '3/02/1968', 'brown', 'blue', 75, 160, '2/3/1988');
```

```
INSERT INTO Actors( pid, birthDate, hairColor, eyeColor, heightIN, weight, screenGuildAnnDate )  
VALUES(004, '9/25/1968', 'black', 'brown', 68, 155, '3/1/1992');
```

```
INSERT INTO Actors( pid, birthDate, hairColor, eyeColor, heightIN, weight, screenGuildAnnDate )
```

```
VALUES(005, '6/04/1975', 'brown', 'hazel', 65, 120, '4/4/1990');
```

```
INSERT INTO Actors( pid, birthDate, hairColor, eyeColor, heightIN, weight, screenGuildAnnDate )  
VALUES(006, '2/12/1973', 'blond', 'brown', 63, 125, '4/10/2000');
```

```
INSERT INTO Actors( pid, birthDate, hairColor, eyeColor, heightIN, weight, screenGuildAnnDate )  
VALUES(007, '8/25/1930', 'brown', 'brown', 68, 180, '5/25/1960' );
```

```
INSERT INTO Actors( pid, birthDate, hairColor, eyeColor, heightIN, weight, screenGuildAnnDate )  
VALUES(008, '5/31/1930', 'brown', 'brown', 66, 170, '1/10/1964');
```

```
INSERT INTO Actors( pid, birthDate, hairColor, eyeColor, heightIN, weight, screenGuildAnnDate )  
VALUES(009, '11/19/1962', 'blond', 'blue', 63, 120, '3/5/1980');
```

```
INSERT INTO Actors( pid, birthDate, hairColor, eyeColor, heightIN, weight, screenGuildAnnDate )  
VALUES(010, '6/27/1966', 'black', 'hazel', 65, 175, '12/12/1991');
```

```
INSERT INTO Actors( pid, birthDate, hairColor, eyeColor, heightIN, weight, screenGuildAnnDate )  
VALUES(012, '6/23/1964', 'brown', 'hazel', 68, 180, '11/4/1990');
```

```
--insert into Directors
```

```
INSERT INTO Directors( pid, filmSchool, dirGuildAnnDate )  
VALUES(008, 'Military', '1/12/1990');
```

```
INSERT INTO Directors( pid, filmSchool, dirGuildAnnDate )  
VALUES(009, 'Yale', '6/24/1991');
```

```
INSERT INTO Directors( pid, filmSchool, dirGuildAnnDate )  
VALUES(010, 'Sarah Lawrence College', '2/2/1995');
```

```
INSERT INTO Directors( pid, filmSchool, dirGuildAnnDate )  
VALUES(011, 'None', '1/16/1974');
```

```
INSERT INTO Directors( pid, filmSchool, dirGuildAnnDate )  
VALUES(012, 'Wesleyan University', '5/5/1992');
```

```
INSERT INTO Directors( pid, filmSchool, dirGuildAnnDate )  
VALUES(013, 'California Institute of Arts', '9/8/1988');
```

```
INSERT INTO Directors( pid, filmSchool, dirGuildAnnDate )  
VALUES(014, 'St. Ignatius College', '3/21/1939');
```

```
INSERT INTO Directors( pid, filmSchool, dirGuildAnnDate )
VALUES(015, 'California State University', '4/20/1980');
```

```
INSERT INTO Directors( pid, filmSchool, dirGuildAnnDate )
VALUES(016, 'French Resistance', '4/20/1964');
```

--Insert into Movies

--movie directed by eastwood with eastwood in it

```
INSERT INTO Movies (mid, name, releaseYear, domesticSales, foreignSales, DVDSales)
VALUES(1,'Space Cowboys', 2000, 90000000, 48000000, 7000000 )
```

--hitchcock film

```
INSERT INTO Movies (mid, name, releaseYear, domesticSales, foreignSales, DVDSales)
VALUES(2,'Psycho', 1960, 25000000, 30000000, 5000000 )
```

--joss whedon film with Summer glau

```
INSERT INTO Movies (mid, name, releaseYear, domesticSales, foreignSales, DVDSales)
VALUES(3,'Serenity', 2005, 13300000, 25500000, 1000000 )
```

--Angelina jolie film directed by eastwood

```
INSERT INTO Movies (mid, name, releaseYear, domesticSales, foreignSales, DVDSales)
VALUES(4,'Changeling', 2008, 35000000, 77300000, 1000000 )
```

--sean connery film - (goldfinger - directed by Guy Hamilton, Indiana Jones - directed by Steven Spielberg)

```
INSERT INTO Movies (mid, name, releaseYear, domesticSales, foreignSales, DVDSales)
VALUES(5,'Goldfinger', 1964, 23000000, 46000000, 2000000 )
```

```
INSERT INTO Movies (mid, name, releaseYear, domesticSales, foreignSales, DVDSales)
```

```
VALUES(6,'Indiana Jones and the Last Crusade', 1989, 19700000, 27700000, 5000000 )
```

--tim burton film

```
INSERT INTO Movies (mid, name, releaseYear, domesticSales, foreignSales, DVDSales)
VALUES(7,'Edward Scissorhands', 1990, 56000000, 29000000, 500000 )
```

--jj abrams film

```
INSERT INTO Movies (mid, name, releaseYear, domesticSales, foreignSales, DVDSales)
VALUES(8,'Star Trek', 2009, 130000000, 127000000, 5000000 )
```

--insert into MovieCast

--Eastwood in SpaceCowboys

```
INSERT INTO MovieCast (pid, mid)
VALUES(8, 1 )
```

--Summer Glau in Serenity

```
INSERT INTO MovieCast (pid, mid)
VALUES(1, 3 )
```

--Angelina jolie in Changling

```
INSERT INTO MovieCast (pid, mid)
VALUES(5, 4 )
```

--sean connery in goldfinger and in Indiana Jones

```
INSERT INTO MovieCast (pid, mid)
VALUES(7,5 )
```

```
INSERT INTO MovieCast (pid, mid)
VALUES(7,6 )
```

--Insert into filmedBy

--movie directed by eastwood with eastwood in it

```
INSERT INTO FilmedBy(pid, mid)
VALUES(8, 1 )
```

--hitchcock film

```
INSERT INTO FilmedBy(pid, mid)
VALUES(14, 2)
```

--joss whedon film with Summer glau

```
INSERT INTO FilmedBy(pid, mid)
VALUES(12, 3)
```

--Angelina jolie film directed by eastwood

```
INSERT INTO FilmedBy(pid, mid)
VALUES(8,4)
```

--sean connery film (goldfinger - directed by Guy Hamilton, Indiana Jones - directed by Steven Spielberg)

```
INSERT INTO FilmedBy(pid, mid)
VALUES(16, 5)
```

```
INSERT INTO FilmedBy(pid, mid)
VALUES(11, 6)
```

--tim burton film

```
INSERT INTO FilmedBy(pid, mid)
VALUES(13, 7)
```

--jj abrams film

```
INSERT INTO FilmedBy(pid, mid)
VALUES(10, 8)
```

Functional Dependencies for each table

People: pid -> fname, lname, address

Actors: pid -> birthDate, hairColor, eyeColor, heightIN, weight, screenGuildAnnDate

Directors: pid -> filmSchool, dirGuildAnnDate

Movies: mid -> name, releaseYear, domesticSales, foreignSales, DVDSales

MovieCast: pid, mid

FilmedBy: pid, mid

Write query SQL to return all the directors with whom actor “Sean Connery” has worked.

Select distinct p2.fname, p2.lname

From People p, People p2, Actors a, Directors d, Movies m, MovieCast mc, FilmedBy f

Where p.pid = a.pid AND mc.pid = a.pid AND mc.mid = m.mid

AND p.fname = 'Sean' AND p.lname = 'Connery'

AND f.mid = m.mid AND f.pid = d.pid AND d.pid = p2.pid