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Database Management/Professor Labouseur

Lab 8

Drop table MovieActors;

Drop table MovieDirectors;

Drop table Movies;

Drop table Actors;

Drop table Directors;

Drop table People;

Drop table if exists People;

Create table People (

pid serial primary key,

FirstName text not null,

LastName text not null,

Address text not null

);

Drop table if exists Actors;

Create table Actors (

pid int primary key references people (pid),

DateofBirth date not null,

HairColor text not null,

```
EyeColor text not null,  
HeightInInches int not null,  
WeightInPounds int not null,  
ScreenActorsGuildAnniversary date not null  
);
```

```
Drop table if exists Directors;  
  
Create table Directors (  
pid int primary key references people (pid),  
FilmSchool text,  
DirectorsGuildAnniversary date not null  
);
```

```
Drop table if exists Movies;  
  
Create table Movies (  
mid serial primary key,  
Name text not null,  
YearReleased int not null,  
DomesticSales money not null,  
ForeignSales money not null,  
DVDSales money not null  
);
```

Drop table if exists MovieActors;

Create table MovieActors (

pid int references people (pid),

mid int references movies (mid),

primary key (pid,mid)

);

Drop table if exists MovieDirectors;

Create table MovieDirectors (

pid int references people (pid),

mid int references movies (mid),

primary key (pid,mid)

);

INSERT INTO People (FirstName, LastName, Address)

VALUES:

('Sean', 'Connery', '9830 Wilshire Blvd. Beverly Hills, CA 90212'),

('Daniel', 'Craig', '666 Who Cares Rd. Somewhere, CA 12345'),

('Brad', 'Pitt', '9150 Wilshire Blvd. Suite 350 Beverly Hills, CA 90212'),

('Jeff', 'Goldblum', '955 S. Carrillo Drive Suite 300 Los Angeles, CA 90048'),

('John', 'Stamos', '9601 Wilshire Blvd. 3rd floor Beverly Hills, CA 90212'),

('Guy', 'Hamilton', '5 Goldfinger Drive CA 90212'),

('Woody', 'Allen', '202 Indian Meadow Drive Northborough, MA 01532'),  
('Christopher', 'Nolan', '7 Dark Knight Street, NY 12345');

INSERT INTO Actors (pid, DateofBirth, HairColor, EyeColor, HeightInInches,  
WeightInPounds, ScreenActorsGuildAnniversary)

VALUES:

('1', 'aug-25-1930', 'grey', 'brown', '74', '200', 'feb-01-1970'),  
('2', 'mar-02-1968', 'brown', 'blue', '70', '170', 'feb-02-1970'),  
('3', 'dec-18-1963', 'brown', 'blue', '71', '180', 'feb-03-1970'),  
('4', 'oct-22-1952', 'brown', 'brown', '76', '185', 'feb-04-1970'),  
('5', 'aug-19-1963', 'brown', 'blue', '72', '175', 'feb-05-1970'),  
('7', 'dec-1-1935', 'grey', 'brown', '65', '110', 'feb-07-1970');

INSERT INTO Directors (pid, FilmSchool, DirectorsGuildAnniversary)

VALUES:

('6', 'null', 'feb-06-1973'),  
('7', 'City College of New York', 'feb-07-1973'),  
('8', 'Haileybury and Imperial Service College', 'feb-01-1973');

INSERT INTO Movies (Name, YearReleased, DomesticSales, ForeignSales, DVDSales)

VALUES:

('Goldfinger', '1964', '\$51081062.00', '\$73800000.00', '\$51081062.00'),  
('Oceans Eleven', '2001', '\$183405771.00', '\$267311379.00', '\$51081062.00'),

('The Dark Knight', '2008', '\$533345358.00', '\$469546000.00', '\$262700444.00'),  
('Blue Jasmine', '2013', '\$32218246.00', '\$30033764.00', '\$51081062.00'),  
('Casino Royale', '1967', '\$22744718.00', '\$19000000.00', '\$51081062.00');

INSERT INTO MovieDirectors (pid, mid)

VALUES:

(6,1),

(8,3),

(7,4);

INSERT INTO MovieActors (pid, mid)

VALUES:

(1,1),

(3,2),

(7,5),

(2,5);

Functional Dependencies:

Movies:

Name  $\rightarrow$  mid

YearReleased  $\rightarrow$  mid

DomesticSales  $\rightarrow$  mid

ForeignSales  $\rightarrow$  mid

DVDSales  $\rightarrow$  mid

People:

FirstName → pid

LastName → pid

Address → pid

Directors:

FilmSchool → pid

DirectorGuildAnniversary → pid

Actors:

DateofBirth → pid

HairColor → pid

EyeColor → pid

HeightInInches → pid

WeightInPounds → pid

ScreenActorsGuildAnniversary → pid

Query to find which directors worked with Sean Connery:

```
SELECT p.firstname, p.lastname
```

```
FROM people p
```

```
WHERE p.pid IN (
```

```
    SELECT pid
```

```

FROM directors
WHERE pid IN (
    SELECT pid
    FROM moviedirectors
    WHERE mid IN (
        SELECT mid
        FROM movieactors
        WHERE pid IN (
            SELECT pid
            FROM actors
            WHERE pid IN (
                SELECT pid
                FROM people
                WHERE firstname = 'Sean' and lastname = 'Connery')
            )
        )
    )
);

```

E-R Diagram:

