SQL Create Statements

People

```
CREATE TABLE People(
   pid
           char(4) not null,
             varchar(30),
   name
   address
               varchar(150),
   primary key (pid)
);
Directors
CREATE TABLE Directors(
                       char(4) not null references People(pid),
   film_school
                          char(50),
                             varchar(50),
   dag_anniversary
   primary key(pid)
);
Actors
CREATE TABLE Actors(
                          char(4) not null references People(pid),
   pid
   birthday
                                varchar(15),
   hair_color
                             varchar(15),
   eye_color
                            varchar(6),
   height_inches
                                integer,
   weight
                              integer,
   sag_anniversary_date
                                     date,
   primary key(pid)
);
Movies
CREATE TABLE Movies(
   mid
                   char(4) not null,
                   varchar(50),
   title
   year
                     integer,
   domestic_sales
                          numeric(12,2),
   foreign_sales
                        numeric(12,2),
   dvd bluray sales
                        numeric(12,2),
   primary key(mid)
);
```

```
MDirectors- This table is responsible for relating the movies and the directors so you
can get the output of moives and who directed them.
CREATE TABLE MDirectors(
                       not null references Movies(mid),
    mid
           char(4)
           char(4) not null references Directors(pid),
    pid
    primary key (mid, pid)
);
MActors- This table is responsible for relating movies and actors so you can get the
output of movies and who directed them.
CREATE TABLE MActors(
    mid
           char(4) not null references Movies(mid),
   pid
           char(4) not null references Actors(pid),
    primary key (mid, pid)
);
Insert Statements
People
INSERT INTO People(pid, name, address) VALUES
    ('p01', 'Sean Connery', '123 Abbey Road UK'),
    ('p02', 'Michael Bay', '45 Madison Ave NY'),
    ('p03', 'Shia Labouf', '56 Rodeo Drive LA California'),
    ('p04', 'Harrison Ford', '14 Finikay Lane New York'),
    ('p05', 'Steven Spielberg', '13 E.T Lane California');
Directors
INSERT INTO Directors(pid, film school, dag anniversary) VALUES
    ('p01', 'None', 'None'),
    ('p02', 'Wesleyn', '12/05/2007'),
    ('p03', 'USC', '01/09/1973');
Actors
INSERT INTO Actors(pid, birthday, hair_color, eye_color, height_inches, weight,
sag anniversary date) VALUES
    ('p01', '08/25/1930', 'Brown', 'Brown', 74, 200, '12/10/1997'),
    ('p03', '06/11/1986', 'Brown', 'Brown', 69, 160, '08/08/2007'),
    ('p04', '07/13/1942', 'Light Brown', 'Blue', 73, 175, '02/23/1968');
Movies
INSERT INTO Movies(mid, title, year, domestic_sales, foreign_sales,
dvd blurav sales) VALUES
    ('m01', 'The Bowler and the Bun', 1967, 200000.00, 400000.00, 150000.00),
    ('m02', 'Transformers', 2007, 80000000.00, 76000000.00, 12000000.00),
```

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('m03', 'Indiana Jones and the Lost Crusades', 1989, 1000000.00, 2000000.00,
900000.00);
MDirectos
INSERT INTO MDirectors(mid, pid) VALUES
    ('m01', 'p01'),
   ('m02', 'p02'),
    ('m03', 'p05');
MActors
INSERT INTO MDirectors(mid, pid) VALUES
    ('m01', 'p01'),
   ('m02', 'p02'),
    ('m03', 'p05');
Functional Dependencies
People
Pid→ name
Pid→ address
Actors
Pid → birthday
Pid→ hair color
Pid → eye_color
Pid → height_inches
Pid \rightarrow weight
Pid → sag_anniversery_date
Directors
Pid → film school
Pid → dag_anniversary
Movies
mid \rightarrow title
mid \rightarrow year
mid → domestic sales
mid → foreign sales
mid→ dvd_blueray
SQL Sean Connery
SELECT people.name
FROM People
WHERE pid IN (
                   SELECT pid FROM MDirectors
WHERE mid IN
         SELECT mid FROM MActors
(
```

```
WHERE pid IN
( SELECT pid FROM People
WHERE name = 'Sean Connery' ) );
```

In this query you get the output of Sean Connery because he directed and starred as himself in the Movie The Bowler and the Bun thereore his pid of p01 showed up in both the mactors table and the mdirectors table. Therefore you get the output of Sean connery and Steven Spielberg who worked with Sean Connery in the Indianna Jones films.