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November 4th
Normalization Homework #2
-- People --
DROP TABLE IF EXISTS People;
 CREATE TABLE People (
  pid char(4) not null,
name text,
address text,
 primary key(pid)
-- Actors --
DROP TABLE IF EXISTS Actors;
CREATE TABLE Actors (
pid char(4) references People(pid),
birthDate date,
   hairColor text,
  screenActorsGuildAnniversairyDate date
-- Director --
DROP TABLE IF EXISTS Directors;
CREATE TABLE Directors (
pid char(4) references People(pid),
filmSchoolAttended text,
  directorsGuildAnniversairyDate date,
 primary key(pid)
-- Movies --
DROP TABLE IF EXISTS Movies;
DHOP TABLE IF EXISTS Movies;
CREATE TABLE Movies (
mid char(4) not null,
name text,
yearReleased int,
domesticBoxOfficeSales money,
faciling PayOfficeSales money,
  foreignBoxOfficeSales money,
DVDBluraySales money,
 primary key(mid)
-- Actedin --
DROP TABLE IF EXISTS Actedin;
CREATE TABLE ActedIn (
mid char(4) references Movies(mid),
pid char(4) references People(pid),
primary key(mid,pid)
 -- DirectorOf --

    DirectorOf -
DROP TABLE IF EXISTS DirectorOf;
CREATE TABLE DirectorOf (
pid char(4) references People(pid),
mid char(4) references Movies(mid),
primary key(mid,pid)

-- People -- INSERT INTO People( pid, name, address )
VALUES('p001', 'Thomas Sean Connery', '837 Jones St, Edinburgh, Scotland, UK');
INSERT INTO People( pid, name, address )
VALUES('p002', 'William Bradley Pitt', '9338 Miller St, Shawnee, Oklahoma, USA');
INSERT INTO People( pid, name, address )
VALUES('p003', 'Alfredo James Pacino', '8383 Independence Rd, New York City, New York, USA');
 INSERT INTO People( pid, name, address )
   VALUES('p004', 'Robert Anthony De Niro Jr.', '4 Main Rd, New York City, New York, USA');
INSERT INTO People( pid, name, address )
VALUES('p005', 'Christian Charles Philip Bale', '14 George St, Haverfordwest, Pembrokeshire, Wales, UK');
INSERT INTO People( pid, name, address )
VALUES('p006', 'Martin Marcantonio Luciano Scorsese', '89 Masters Rd, Queens, New York City, New York, USA');
INSERT INTO People( pid, name, address )
VALUES('p007', 'Alfred Joseph Hitchcock', '120 tree lane, Bel Air, Los Angeles, California, USA');
INSERT INTO People( pid, name, address )
VALUES('p008', 'Terence Young', '47 Coleman rd, Shanghai, China');
INSERT INTO People( pid, name, address )
VALUES('p009', 'John Campbell McTiernan Jr.', '4022 Main rd, Albany, New York, USA');
INSERT INTO People( pid, name, address )
VALUES('p010', 'Michael Benjamin Bay', '9283 Presidents Rd, Los Angeles, California, USA');
-- ACTORS -- INSERT INTO Actors( pid, birthDate, hairColor, eyeColor, heightIN, weightLB, screenActorsGuildAnniversairyDate ) VALUES(p001', '1930-08-25', 'brown', 'blue', 74, 160, '1990-10-10');
INSERT INTO Actors( pid, birthDate, hairColor, eyeColor, heightIN, weightLB, screenActorsGuildAnniversairyDate ) VALUES('p002', '1963-12-18', 'brown', 'green', 71, 180, '2001-01-23');
INSERT INTO Actors( pid, birthDate, hairColor, eyeColor, heightIN, weightLB, screenActorsGuildAnniversairyDate ) VALUES('p003', '1940-04-24', 'brown', 'brown', 67, 146, '1980-04-12');
INSERT\ INTO\ Actors(\ pid,\ birthDate,\ hairColor,\ eyeColor,\ heightIN,\ weightLB,\ screenActorsGuildAnniversairyDate\ )\ VALUES(\ p004',\ '1943-08-17',\ 'brown',\ '70,\ 179,\ '1989-03-04');
INSERT INTO Actors( pid, birthDate, hairColor, eyeColor, heightIN, weightLB, screenActorsGuildAnniversairyDate ) VALUES('p005', '1974-01-30', 'brown', 'blue', 70, 186, '1975-02-19');
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Mary Miller

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- DIRECTORS --
INSERT INTO Directors( pid, filmSchoolAttended,directorsGuildAnniversairyDate ) VALUES('p006', 'New York University School of Film', '2005-11-29');
INSERT INTO Directors( pid, filmSchoolAttended,directorsGuildAnniversairyDate ) VALUES('p007', null, '1940-07-25');
INSERT INTO Directors( pid, filmSchoolAttended,directorsGuildAnniversairyDate ) VALUES('p008', null, '1970-01-10');
INSERT INTO Directors( pid, filmSchoolAttended,directorsGuildAnniversairyDate ) VALUES('p009', null, '1990-10-12');
INSERT INTO Directors( pid. filmSchoolAttended.directorsGuildAnniversairvDate )
  VALUES('p010', 'Wesleyan University', '2000-03-14');
INSERT INTO Movies( mid, name, yearReleased, domesticBoxOfficeSales, foreignBoxOfficeSales, DVDBluraySales ) VALUES('m001', 'Goodfellas', 1990, 190909.12,8813918.12,16272.22);
INSERT INTO Movies( mid, name,yearReleased, domesticBoxOfficeSales, foreignBoxOfficeSales, DVDBluraySales ) VALUES('m002', 'The Departed', 2006, 100002030.11,21837129837.00,1134151.87);
INSERT INTO Movies( mid, name, yearReleased, domesticBoxOfficeSales, foreignBoxOfficeSales, DVDBluraySales ) VALUES(m003', "Psycho", 1960, 81728123.42, 11446644.24, 1251235.00);
INSERT INTO Movies( mid, name, yearReleased, domesticBoxOfficeSales, foreignBoxOfficeSales, DVDBluraySales ) VALUES('m004', Vertigo', 1958, 71172829127.11, 7152672.00, 71823912.00);
INSERT INTO Movies( mid, name, yearReleased, domesticBoxOfficeSales, foreignBoxOfficeSales, DVDBluraySales ) VALUES('m005', 'Dr. No', 1962, 6177244.35, 181272710.00, 71281283.87);
INSERT\ INTO\ Movies (\ mid,\ name, year Released,\ domestic Box Office Sales,\ for eign Box Office Sales,\ DVDB luray Sales\ )
  VALUES('m006', 'Thunderball', 1965, 3423039.35, 72182839.00, 1234152.87);
INSERT INTO Movies( mid, name, yearReleased, domesticBoxOfficeSales, foreignBoxOfficeSales, DVDBluraySales ) VALUES('m007', 'The Hunt for Red October', 1990, 5268645.35, 10975642.00, 1234347834.87);
INSERT INTO Movies( mid, name, yearReleased, domesticBoxOfficeSales, foreignBoxOfficeSales, DVDBluraySales ) VALUES('m008', 'The Rock', 1996, 924892398.23, 123193.23, 12313828.23);
--ACTedIN --
INSERT INTO ActedIn(mid,pid)
VAIUES('m005','p001');
INSERT INTO ActedIn(mid,pid)
INSERT INTO ActedIn(mid,pid)
VAIUES('m007','p001');
INSERT INTO ActedIn(mid,pid) VAIUES('m008','p001');
INSERT INTO DirectorOf(mid,pid)
  VAIUES('m005', 'p008')
INSERT INTO DirectorOf(mid,pid) VAIUES('m006','p008');
INSERT INTO DirectorOf(mid.pid)
  VAIUES('m007', 'p009')
INSERT INTO DirectorOf(mid,pid) VAIUES('m008','p010');
INSERT INTO DirectorOf(mid.pid)
  VAIUES('m001', 'p006');
INSERT INTO DirectorOf(mid,pid) VAIUES('m002','p006');
INSERT INTO DirectorOf(mid,pid) VAIUES('m003','p007');
INSERT INTO DirectorOf(mid,pid) VAIUES('m004','p007');
-- SOL Query
select name
from people
where pid in (select pid
           from Directors
            where pid in (select pid
from DirectorOf
                       where mid in (select mid
from Movies
where mid in (select mid
                                               from actedIn
                                                where pid in (select pid
from people
where name = 'Thomas Sean Connery')))))
-- Functional Dependencies
--People Table
--reuple raule
pild -> name, address
--Actor Table
pild -> Dirthdate, hairColor, Eyecolor, heightIN,WeightLb, ScreenActorsGuildAnniversairyDate
--Directors
pid -> Filmschool attended, Directors Guild Anniversairy Date
 --Movies
--movines mid -> name, yearReleased, domesticBoxOfficeSales, foreignBoxOfficeSales, DVDBluraySales --ActedIn pid -> mid
 --DirectorOf
```

pid -> mid

