E-R Diagram

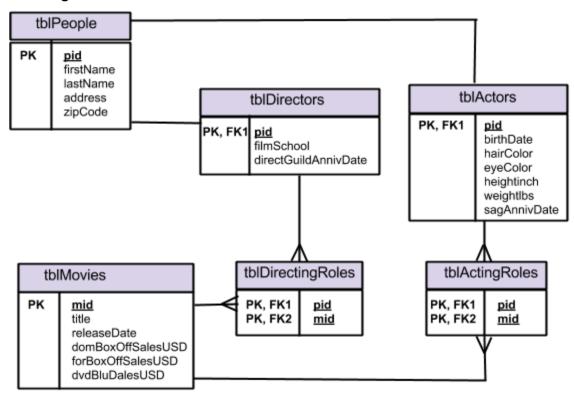


Table Creation Statements

```
-- People --
CREATE TABLE people (
  pid char(4) not null,
  firstName text,
  lastName text,
  address text,
  zipCode char(5),
  primary key(pid)
);
```

```
-- Actors --
CREATE TABLE actors (
 pid
          char(4) not null references people(pid),
 birthDate
               date,
 hairColor
               text.
 eyeColor
               text,
 heightINCH
               integer,
 weightLBS
               integer,
 sagAnnivDate date,
primary key(pid)
);
-- Directors --
CREATE TABLE directors (
                      char(4) not null references people(pid),
 pid
 filmSchool
                      text,
 directGuildAnnivDate date,
primary key(pid)
);
-- Movies --
CREATE TABLE movies (
                       char(4) not null,
 title
                        text,
 releaseDate
                       date,
 domBoxOffSalesUSD numeric(12,2),
 forBoxOffSalesUSD numeric(12,2),
 dvdBluSalesUSD
                       numeric(12,2),
primary key(mid)
);
-- Acting Roles --
CREATE TABLE actingRoles (
 pid char(4) not null references actors(pid),
 mid char(4) not null references movies(mid),
primary key(pid, mid)
);
-- Directing Roles --
CREATE TABLE directingRoles (
 pid char(4) not null references directors(pid),
 mid char(4) not null references movies(mid),
primary key(pid, mid)
```

Test Data Insertion Statements

-- People --

INSERT INTO people(pid, firstName, lastName, address, zipCode) VALUES('p001', 'Sean', 'Connery', '123 Fake St.', '11223');

INSERT INTO people(pid, firstName, lastName, address, zipCode) VALUES('p002', 'Pierce', 'Brosnan', '40 Real St.', '33223');

INSERT INTO people(pid, firstName, lastName, address, zipCode) VALUES('p003', 'Bob', 'Smith', '300 Fake Rd.', '13273');

INSERT INTO people(pid, firstName, lastName, address, zipCode) VALUES('p004', 'Some', 'Britishguy', '80 Real Rd.', '33223');

INSERT INTO people(pid, firstName, lastName, address, zipCode) VALUES('p005', 'Jet', 'Black', '33 Bebop St.', '12378');

INSERT INTO people(pid, firstName, lastName, address, zipCode) VALUES('p006', 'Alec', 'Trevelyan', '1 Some St.', '18978');

-- Actors --

INSERT INTO actors(pid, birthDate, hairColor, eyeColor, heightINCH, weightLBS, sagAnnivDate)

VALUES('p001', '1930-08-25', 'white', 'brown', 60, 180, '1950-01-13');

INSERT INTO actors(pid, birthDate, hairColor, eyeColor, heightINCH, weightLBS, sagAnnivDate)

VALUES('p002', '1953-05-16', 'black', 'brown', 70, 182, '1980-04-17');

INSERT INTO actors(pid, birthDate, hairColor, eyeColor, heightINCH, weightLBS, sagAnnivDate)

VALUES('p004', '1980-07-15', 'brown', 'blue', 67, 183, '2002-09-25');

INSERT INTO actors(pid, birthDate, hairColor, eyeColor, heightINCH, weightLBS, sagAnnivDate)

VALUES('p005', '1989-09-25', 'black', 'brown', 72, 200, '2010-11-30');

```
-- Directors --
INSERT INTO directors(pid, filmSchool, directGuildAnnivDate)
 VALUES('p001', 'School 1', '1957-03-19');
INSERT INTO directors(pid, filmSchool, directGuildAnnivDate)
 VALUES('p003', 'School 2', '1987-02-11');
INSERT INTO directors( pid, filmSchool, directGuildAnnivDate)
 VALUES('p004', 'School 3', '2005-09-18');
INSERT INTO directors( pid, filmSchool, directGuildAnnivDate)
 VALUES('p005', 'School 2', '2012-12-04');
INSERT INTO directors( pid, filmSchool, directGuildAnnivDate)
 VALUES('p006', 'School 1', '1977-03-19');
-- Movies --
INSERT INTO movies( mid, title, releaseDate, domBoxOffSalesUSD, forBoxOffSalesUSD,
dvdBluSalesUSD)
 VALUES('m001', 'GoldenEye', '1995-11-13', 300.00, 200.00, 180.00);
INSERT INTO movies( mid, title, releaseDate, domBoxOffSalesUSD, forBoxOffSalesUSD,
dvdBluSalesUSD)
 VALUES('m002', 'Movie A', '2009-12-25', 340.00, 210.00, 100.00);
INSERT INTO movies( mid, title, releaseDate, domBoxOffSalesUSD, forBoxOffSalesUSD,
dvdBluSalesUSD)
 VALUES('m003', 'Movie B', '2010-11-13', 430.00, 210.00, 170.00);
INSERT INTO movies( mid, title, releaseDate, domBoxOffSalesUSD, forBoxOffSalesUSD,
dvdBluSalesUSD)
 VALUES('m004', 'Movie C', '2011-03-18', 432.00, 219.00, 70.00);
INSERT INTO movies( mid, title, releaseDate, domBoxOffSalesUSD, forBoxOffSalesUSD,
dvdBluSalesUSD)
 VALUES('m005', 'Movie D', '2012-01-29', 530.00, 610.00, 1070.00);
-- Acting Roles --
INSERT INTO actingRoles(pid, mid)
 VALUES('p001', 'm002');
INSERT INTO actingRoles(pid, mid)
 VALUES('p002', 'm001');
```

```
INSERT INTO actingRoles(pid, mid)
 VALUES('p002', 'm005');
INSERT INTO actingRoles(pid, mid)
 VALUES('p004', 'm002');
INSERT INTO actingRoles( pid, mid)
 VALUES('p004', 'm004');
INSERT INTO actingRoles( pid, mid)
 VALUES('p005', 'm003');
-- Directing Roles --
INSERT INTO directingRoles(pid, mid)
 VALUES('p001', 'm005');
INSERT INTO directingRoles(pid, mid)
 VALUES('p003', 'm002');
INSERT INTO directingRoles(pid, mid)
 VALUES('p003', 'm003');
INSERT INTO directingRoles(pid, mid)
VALUES('p004', 'm005');
INSERT INTO directingRoles( pid, mid)
 VALUES('p005', 'm003');
INSERT INTO directingRoles(pid, mid)
 VALUES('p005', 'm004');
INSERT INTO directingRoles(pid, mid)
VALUES('p006', 'm001');
Functional Dependencies
people table: pid → firstName, lastName, address, zipCode
actors table: pid → birthDate, hairColor, eyeColor, heightinch, weightlbs, sagAnnivDate
directors table: pid → filmSchool, directGuildAnnivDate
movies table: mid → title, yearReleased, domBoxOffSalesUSD, forBoxOffSalesUSD,
```

dvdBluSalesUSD

actingRoles table: pid, mid → directingRoles table: pid, mid →

SQL query to return all the directors with whom "Sean Connery" has worked: