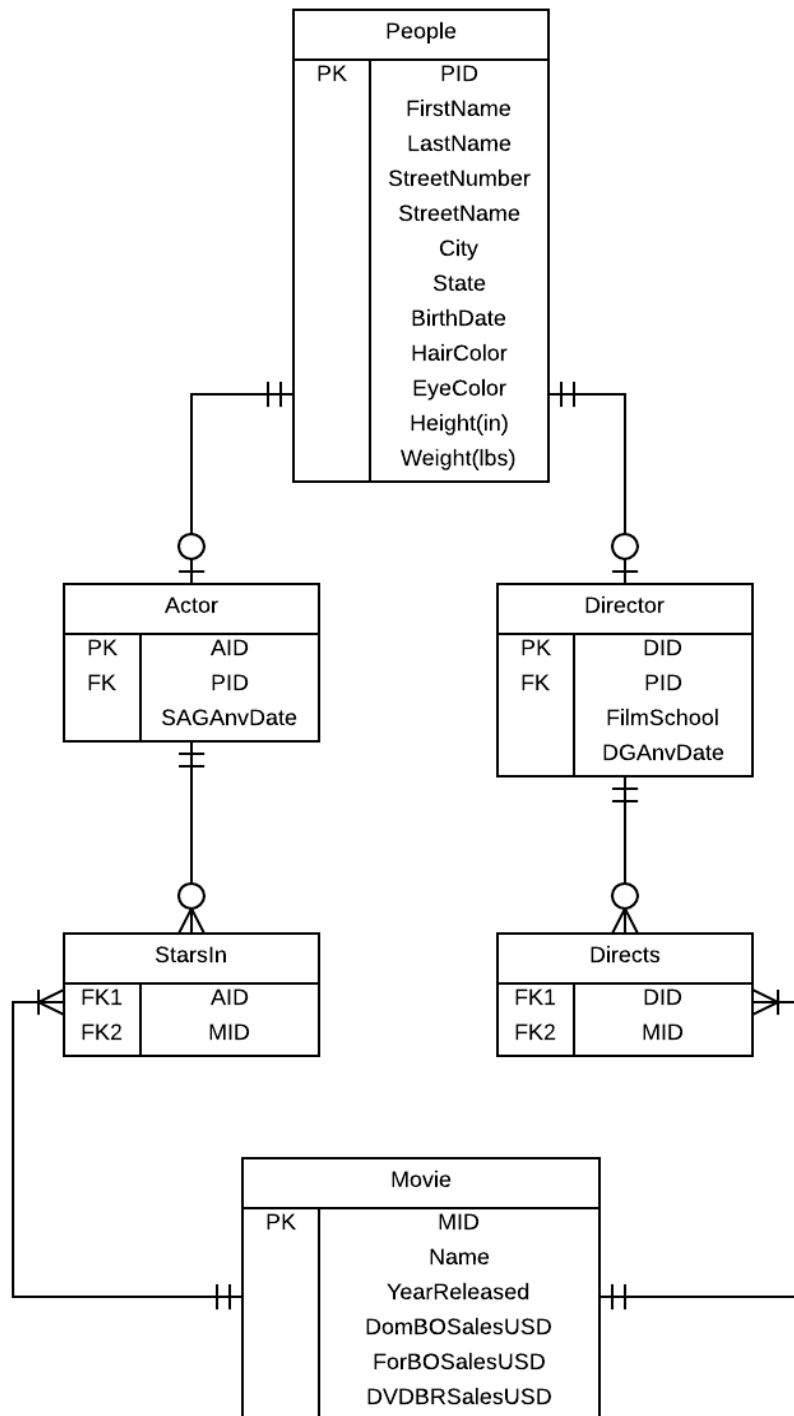


Normalization Lab 2



People Table

```
CREATE TABLE people (
  pid          char(3) not null,
  firstName    text,
  lastName     text,
  streetNumber integer,
  streetName   text,
  city         text,
  state        text,
  birthDate    char(8),
  hairColor    text,
  eyeColor     text,
  heightinch   integer,
  weightlbs    integer,
  primary key(pid)
);
```

```
INSERT INTO people( pid, firstName, lastName, streetNumber, StreetName, city,
state, birthDate, hairColor, eyeColor, heightinch, weightlbs )
VALUES('p01', 'Sean', 'Connery', 24, 'Wharton Row', 'Phoenix', 'AZ',
'08/25/30', 'Black', 'Brown', 74, 180 );
```

```
INSERT INTO people( pid, firstName, lastName, streetNumber, StreetName, city,
state, birthDate, hairColor, eyeColor, heightinch, weightlbs )
VALUES('p02', 'Roger', 'Moore', 43, 'Stonebridge Ct', 'Santa Fe', 'NM',
'10/14/27', 'Brown', 'Blue', 73, 185 );
```

```
INSERT INTO people( pid, firstName, lastName, streetNumber, StreetName, city,
state, birthDate, hairColor, eyeColor, heightinch, weightlbs )
VALUES('p03', 'Timothy', 'Dalton', 132, 'Wildflower Ln', 'New York', 'NY',
'03/21/44', 'Dark Brown', 'Green', 72, 195 );
```

```
INSERT INTO people( pid, firstName, lastName, streetNumber, StreetName, city,
state, birthDate, hairColor, eyeColor, heightinch, weightlbs )
VALUES('p04', 'Pierce', 'Brosnan', 645, 'Martins Pond Rd', 'Boston', 'MA',
'05/16/53', 'Black', 'Brown', 74, 190 );
```

```
INSERT INTO people( pid, firstName, lastName, streetNumber, StreetName, city,
state, birthDate, hairColor, eyeColor, heightinch, weightlbs )
VALUES('p05', 'Guy', 'Hamilton', 234, 'Depot St', 'Dallas', 'TX',
'05/16/22', 'Brown', 'Green', 72, 197 );
```

```
INSERT INTO people( pid, firstName, lastName, streetNumber, StreetName, city,
state, birthDate, hairColor, eyeColor, heightinch, weightlbs )
VALUES('p06', 'John', 'Glen', 65, 'Smith St', 'Seattle', 'WA', '05/15/32',
'Black', 'Brown', 70, 200 );
```

```
INSERT INTO people( pid, firstName, lastName, streetNumber, StreetName, city,
state, birthDate, hairColor, eyeColor, heightinch, weightlbs )
VALUES('p07', 'Lee', 'Tamahori', 12, 'Bakers Ln', 'Portland', 'OR',
'03/12/40', 'Gray', 'Blue', 68, 178 );
```

	pid charact	firstname text	lastname text	street intege	streetname text	city text	state text	birthdate character(8	haircolor text	eyecol text	height intege	weightlb integer
1	p01	Sean	Connery	24	Wharton Row	Phoenix	AZ	08/25/30	Black	Brown	74	180
2	p02	Roger	Moore	43	Stonebridge Ct	Santa Fe	NM	10/14/27	Brown	Blue	73	185
3	p03	Timothy	Dalton	132	Wildflower Ln	New York	NY	03/21/44	Dark Brown	Green	72	195
4	p04	Pierce	Brosnan	645	Martins Pond Rd	Boston	MA	05/16/53	Black	Brown	74	190
5	p05	Guy	Hamilton	234	Depot St	Dallas	TX	05/16/22	Brown	Green	72	197
6	p06	John	Glen	65	Smith St	Seattle	WA	05/15/32	Black	Brown	70	200
7	p07	Lee	Tamahori	12	Bakers Ln	Portland	OR	03/12/40	Gray	Blue	68	178

pID → firstName, LastName, streetNumber, streetName, city, state, birthDate, hairColor
eyeColor, heightinch, weightlbs

Movie Table

```
CREATE TABLE movie (
  mid          char(3) not null,
  name        text,
  yearReleased integer,
  domBOSalesUSD numeric(14,2),
  forBOSalesUSD numeric(14,2),
  dvdBRSalesUSD numeric(14,2),
  primary key(mid)
);
```

```
INSERT INTO movie( mid, name, yearReleased, domBOSalesUSD, forBOSalesUSD,
dvdBRSalesUSD )
VALUES('m01', 'Goldfinger', 1964, 20000000.00, 10000000.00, 8000000.00 );
```

```
INSERT INTO movie( mid, name, yearReleased, domBOSalesUSD, forBOSalesUSD,
dvdBRSalesUSD )
VALUES('m02', 'Octopussy', 1983, 25000000.00, 12000000.00, 9000000.00 );
```

```
INSERT INTO movie( mid, name, yearReleased, domBOSalesUSD, forBOSalesUSD,
dvdBRSalesUSD )
VALUES('m03', 'Licence to Kill', 1989, 24000000.00, 15000000.00,
10000000.00 );
```

```
INSERT INTO movie( mid, name, yearReleased, domBOSalesUSD, forBOSalesUSD,
dvdBRSalesUSD )
VALUES('m04', 'Die Another Day', 2002, 38000000.00, 18000000.00,
12000000.00 );
```

	mid chara	name text	yearrele integer	dombosalesusd numeric(14,2)	forbosalesusd numeric(14,2)	dvdbrsalesusd numeric(14,2)
1	m01	Goldfinger	1964	20000000.00	10000000.00	8000000.00
2	m02	Octopussy	1983	25000000.00	12000000.00	9000000.00
3	m03	Licence to Kill	1989	24000000.00	15000000.00	10000000.00
4	m04	Die Another Day	2002	38000000.00	18000000.00	12000000.00

mID → name, yearReleased, domBOSales, forBOSales, dvdBRSales

Actor Table

```
CREATE TABLE actor (
  aid          char(3) not null,
  pid          char(3) not null references people(pid),
  sagAnvDate   char(8),
  primary key(aid)
);

INSERT INTO actor( aid, pid, sagAnvDate )
VALUES('a01', 'p01', '01/20/70' );

INSERT INTO actor( aid, pid, sagAnvDate )
VALUES('a02', 'p02', '02/12/72' );

INSERT INTO actor( aid, pid, sagAnvDate )
VALUES('a03', 'p03', '03/14/84' );

INSERT INTO actor( aid, pid, sagAnvDate )
VALUES('a04', 'p04', '05/10/93' );
```

	aid character(3)	pid character(3)	saganvdate character(8)
1	a01	p01	01/20/70
2	a02	p02	02/12/72
3	a03	p03	03/14/84
4	a04	p04	05/10/93

aID → pID, sagAnvDate

Director Table

```
CREATE TABLE director (
  did          char(3) not null,
  pid          char(3) not null references people(pid),
  filmSchool   text,
  dgAnvDate    char(8),
  primary key(did)
);

INSERT INTO director( did, pid, filmSchool, dgAnvDate )
VALUES('d01', 'p05', 'Emerson', '07/13/65' );

INSERT INTO director( did, pid, filmSchool, dgAnvDate )
VALUES('d02', 'p06', 'USC', '05/06/75' );

INSERT INTO director( did, pid, filmSchool, dgAnvDate )
VALUES('d03', 'p07', 'Marist', '06/04/03' );
```

	did character(3)	pid character(3)	filmschool text	dganvdate character(8)
1	d01	p05	Emerson	07/13/65
2	d02	p06	USC	05/06/75
3	d03	p07	Marist	06/04/03

dID → pID, filmSchool, dgAnvDate

StarsIn Table

```
CREATE TABLE starsIn (  
  aid      char(3) not null references actor(aid),  
  mid      char(3) not null references movie(mid),  
  primary key(aid, mid)  
);
```

```
INSERT INTO starsIn ( aid, mid )  
VALUES('a01', 'm01' );
```

```
INSERT INTO starsIn ( aid, mid )  
VALUES('a02', 'm02' );
```

```
INSERT INTO starsIn ( aid, mid )  
VALUES('a03', 'm03' );
```

```
INSERT INTO starsIn ( aid, mid )  
VALUES('a04', 'm04' );
```

	aid character(3)	mid character(3)
1	a01	m01
2	a02	m02
3	a03	m03
4	a04	m04

aID, mID →

Directs Table

```
CREATE TABLE directs (  
  did      char(3) not null references director(did),  
  mid      char(3) not null references movie(mid),  
  primary key(did, mid)  
);
```

```
INSERT INTO directs ( did, mid )  
VALUES('d01', 'm01' );
```

```
INSERT INTO directs ( did, mid )  
VALUES('d02', 'm02' );
```

```
INSERT INTO directs ( did, mid )  
VALUES('d02', 'm03' );
```

```
INSERT INTO directs ( did, mid )  
VALUES('d03', 'm04' );
```

	did character(3)	mid character(3)
1	d01	m01
2	d02	m02
3	d02	m03
4	d03	m04

dID, mID →

-- Query to show all directors who have worked on a film with Sean Connery --

```
select p.firstname, p.lastname
from people p, director d
where p.pid = d.pid
    and d.did = (select d.did
                  from movie m, starsin s, directs d
                  where s.mid = m.mid
                      and d.mid = m.mid
                      and s.aid = (select a.aid
                                   from actor a, people p
                                   where a.pid = p.pid
                                      and p.lastname = 'Connery'
                                      and p.firstname = 'Sean')
                  )
```