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CMPT 308

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LAB 8 Normalization 2


```sql
DROP TABLE IF EXISTS actors;

DROP TABLE IF EXISTS movies;

DROP TABLE IF EXISTS director;

DROP TABLE IF EXISTS people;

-- people --

CREATE TABLE people(

 pid              integer not null,

 aid              integer,

 did              integer,

 name             text,

 address  text,

 primary key(pid)

);


-- actors --

CREATE TABLE actors(

 aid               integer not null,

 pid               integer not null references people(pid),

 did               integer,

 birthDate         integer,

 hairColor         text,

 eyeColor          text,

 height     integer not null,

 weight     integer not null,

 anniversaryDate integer,

 primary key(aid)

);
```

```sql
-- movies --
CREATE TABLE movies(
  mid                integer not null,
  actor_      text not null,
  director_          text not null,
  name               text,
  year               integer,
  domestic_sales  integer,
  foreign_sales   integer,
  disk_sales         integer,
  primary key(mid)
);


-- director --
CREATE TABLE director(
  did                integer not null,
  pid                integer not null references people(pid),
  aid                integer,
  school      text,
  anniversaryDate integer,
  primary key(did)
);
----------------------------------------------------
-- People --
INSERT INTO People( pid, name, address )
 VALUES('01', 'Sean Connery', '007 Bond Ave');


INSERT INTO People( pid, name, address )
 VALUES('02', 'Matt Damon', '1337 BadAss St');


INSERT INTO People( pid, name, address )
 VALUES('03', 'Steven Spielberg', '69 Winning Ln');
```

```sql
INSERT INTO People( pid, name, address )
  VALUES('04', 'Doug Liman', '101 Who Rd');


-- Actors --
INSERT INTO Actors( aid, pid, birthDate, hairColor, eyeColor, height, weight, anniversaryDate )
  VALUES('01', '01', 1930-8-25, 'White', 'Brown', 74, 180, 1954);


INSERT INTO Actors( aid, pid, birthDate, hairColor, eyeColor, height, weight, anniversaryDate )
  VALUES('02', '02', 1970-10-8, 'Brown', 'Blue', 70, 187, 1988);


-- Movies --
INSERT INTO Movies( mid, actor_, director_, name, year, domestic_sales, foreign_sales, disk_sales )
  VALUES('01', 'Sean Connery', 'Steven Spielberg', 'Indiana Jones and the Last Crusade', 1989, 200000000, 150000000, 90000000
);


INSERT INTO Movies( mid, actor_, director_, name, year, domestic_sales, foreign_sales, disk_sales )
  VALUES('02', 'Matt Damon', 'Doug Liman', 'The Bourne Identity', 2002, 100000000, 176000000, 115000000 );


-- Director --
INSERT INTO Director ( did, pid, school, anniversaryDate )
  VALUES('01', '03', 'Yale', 1971);


INSERT INTO Director ( did, pid, school, anniversaryDate )
  VALUES('02', '04', 'Brown University', 1993);
-- all non primary key columns are individualy dependent on the primary key per table --


SELECT *
FROM Director
WHERE aid IN
(SELECT aid
 FROM People
 WHERE name = 'Sean Connery');
```

ER DIAGRAM

People

PK	pid
	name
	address

Director

PK	did
FK	pid
	school
	anniversaryDate

Actors

PK	aid
FK	pid
	birthDate
	hairColor
	eyeColor
	height
	weight
	anniversaryDate

Movie

PK	mid
	name
	year
	domestic_sales
	foreign_sales
	disk_sales
	actor_
	director_