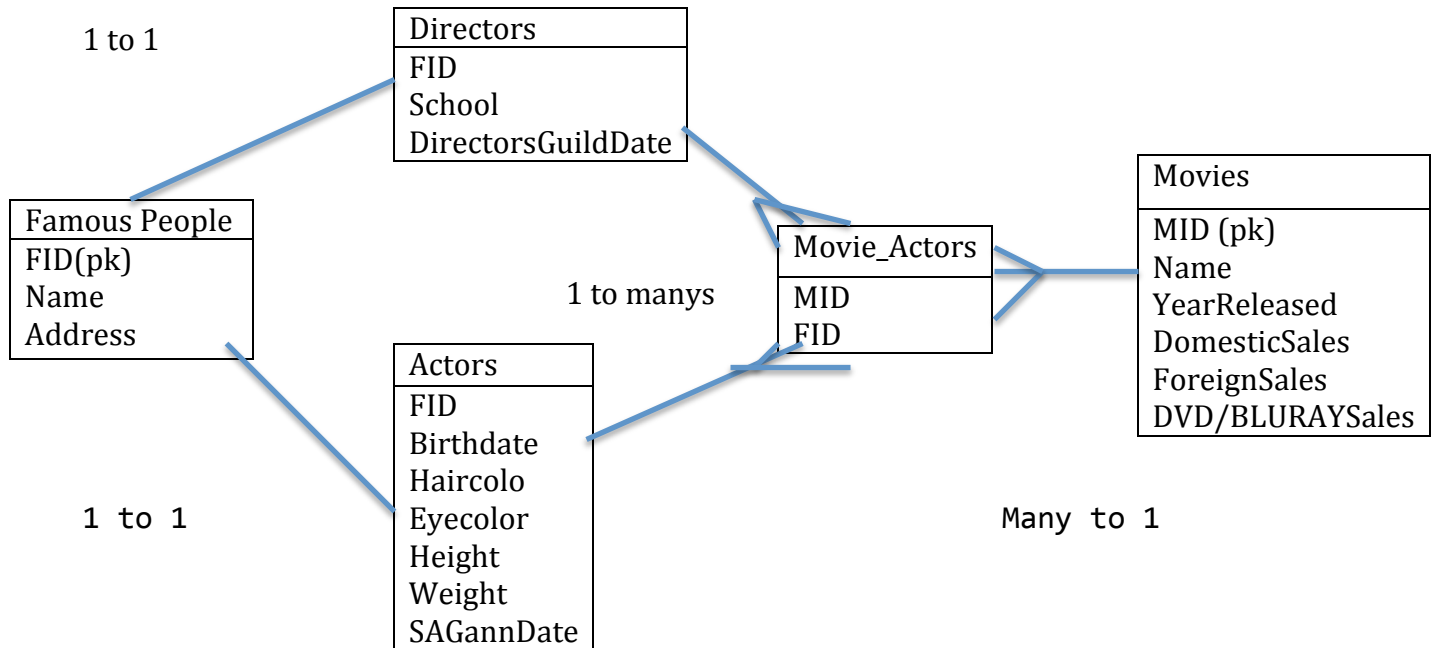


## Normalization HW2

### 1. ER Diagram



### 2. SQL CREATE STATEMENTS

```
-- Famous People --
DROP TABLE IF EXISTS FamousPeople;
CREATE TABLE FamousPeople (
    fid      char(4) not null,
    name     text,
    address  text,
    primary key(fid)
);
```

```
-- Actors --
DROP TABLE IF EXISTS Actors;
CREATE TABLE Actors (
    fid char(4) not null references
    FamousPeople(fid),
    BirthDate date,
```

```

HairColor text,

EyeColor text,

Height integer,

Weight integer,

SAGAnniversaryDate date,

    primary key(fid)
);

-- Directors --
DROP TABLE IF EXISTS Directors;
CREATE TABLE Directors (
fid char(4) not null references FamousPeople(fid),

FilmSchoolAttended text,

DirectorsGuildAnniversaryDate date,

    primary key(fid)
);

-- Movies --
DROP TABLE IF EXISTS Movies;
CREATE TABLE Movies (
    mid                int,
    Name                char(25),
    YearReleased        date,
    DomesticBoxOfficeSales numeric(12,2),
    ForeignBoxOfficeSales numeric(12,2),
    DVDBluraySales
    SAGAnniversaryDate
    primary key(mid)
);

-- Movies_Actors -- DROP TABLE IF EXISTS Movies_Actors; CREATE
TABLE Movies_Actors (
mid char(4) not null references Movies(mid),

fid char(4) not null references FamousPeople(fid),

    primary key(mid,fid)
);

```

```
-- Movies_Directors -- DROP TABLE IF EXISTS Movies_Directors;
CREATE TABLE Movies_Directors (

mid char(4) not null references Movies(mid),

fid char(4) not null references FamousPeople(fid),

primary key(mid,fid)

);
```

3.

### 3. SQL INSERT STATEMENTS

```
-- Famous People
INSERT INTO FamousPeople( fid, name, address ) VALUES('f001',
'Alan Labouseur', '3399 North Road Poughkeepsie, NY 12601');

INSERT INTO FamousPeople( fid, name, address ) VALUES('f002',
'Christopher Nolan', '145 Broadway Los Angeles, California
80001');

INSERT INTO FamousPeople( fid, name, address ) VALUES('f003',
'J.J. Abrams', '43 Purple Street Los Angeles, California
61002');

INSERT INTO FamousPeople( fid, name, address )
VALUES('f004', 'Nathan Greno', '74 White Road San Francisco,
California 94129');

INSERT INTO FamousPeople( fid, name, address )
VALUES('f005', 'Jarett Miller', '2406 West Oakfield Road Grand
Island, NY 14072');

INSERT INTO FamousPeople( fid, name, address )
VALUES('f006', 'Jack Black', '1600 Pennsylvania Avenue
Washington DC 20500');

INSERT INTO FamousPeople( fid, name, address )
VALUES('f007', 'Jack Nicholson', '90 Vanderbilt Road Wappingers
Falls, NY 12590');

INSERT INTO FamousPeople( fid, name, address )
VALUES('f008', 'Sean Connery', '87 Green Avenue Houston, Texas
77002');
```

-- Actors

```
INSERT INTO Actors(fid, BirthDate, HairColor, EyeColor, Height,
Weight, SAGAnniversaryDate ) VALUES('f005', '12/16/1993'
,'Brown', 'Green', '67', '150','06/07/2008');
```

```
INSERT INTO Actors(fid, BirthDate, HairColor, EyeColor, Height,
Weight, SAGAnniversaryDate) VALUES('f006', '08/08/1994' ,
'Brown', 'Brown', '70', '158','09/16/2010');
```

```
INSERT INTO Actors(fid, BirthDate, HairColor, EyeColor, Height,
Weight, SAGAnniversaryDate ) VALUES('f007', '12/25/1993' ,
'Black', 'Brown', '75', '140', '02/22/1998');
```

```
INSERT INTO Actors(fid, BirthDate, HairColor, EyeColor, Height,
Weight, SAGAnniversaryDate ) VALUES('f008', '08/25/1930' ,
'White', 'Blue', '73', '160', '04/24/1970');
```

-- Directors

```
INSERT INTO Directors(fid, FilmSchoolAttended,
DirectorsGuildAnniversaryDate)VALUES('f001', 'School of Visual
Arts', '08/16/2000');
```

```
INSERT INTO Directors( fid, FilmSchoolAttended,
DirectorsGuildAnniversaryDate) VALUES('f002', 'New York
University', '09/22/2007');
```

```
INSERT INTO Directors( fid, FilmSchoolAttended,
DirectorsGuildAnniversaryDate) VALUES('f003', 'California
Institute of the Arts', '10/23/2008');
```

```
INSERT INTO Directors( fid, FilmSchoolAttended,
DirectorsGuildAnniversaryDate) VALUES('f004', 'Marist College',
'11/24/2006');
```

```
INSERT INTO Directors( fid, FilmSchoolAttended,
DirectorsGuildAnniversaryDate) VALUES('f005', 'American Film
Institute', '12/25/2012');
```

-- Movies

```
INSERT INTO Movies( mid, name, YearReleased,
DomesticBoxOfficeSales, ForeignBoxOfficeSales, DVDBluraySales )
VALUES('m001', 'The Dark Knight', 2008, 534858444.00,
636300000.00, 200000050.00 );
```

```
INSERT INTO Movies( mid, name, YearReleased,
```

```
DomesticBoxOfficeSales, ForeignBoxOfficeSales, DVDBluraySales )  
VALUES('m002', 'Star Trek', 2009, 257730019.00, 127905427.00,  
155000000.00);
```

```
INSERT INTO Movies (mid, name, YearReleased,  
DomesticBoxOfficeSales, ForeignBoxOfficeSales, DVDBluraySales )  
VALUES('m003', 'Tangles', 2010, 200821936.00, 390973000.00,  
130000400.00);
```

```
-- Movie_Actors  
INSERT INTO Movie_Actors( mid, fid )  
VALUES('m001', 'f008');
```

```
INSERT INTO Movie_Actors( mid, fid )  
VALUES('m002', 'f005');
```

```
INSERT INTO Movie_Actors( mid, fid )  
VALUES('m002', 'f006');
```

```
INSERT INTO Movie_Actors( mid, fid )  
VALUES('m002', 'f007');
```

```
INSERT INTO Movie_Actors( mid, fid )  
VALUES('m003', 'f007');
```

```
-- Movie_Directors  
INSERT INTO Movie_Directors( mid, fid )  
VALUES('m001', 'f002');
```

```
INSERT INTO Movie_Directors( mid, fid )  
VALUES('m002', 'f003');
```

```
INSERT INTO Movie_Directors( mid, fid )  
VALUES('m003', 'f005');
```

```
INSERT INTO Movie_Directors( mid, fid )  
VALUES('m003', 'f001');
```

#### 4. Dependencies

FamousPeople → Actors

FamousPeople → Directors

Movies, Actors  $\rightarrow$  Movie\_Actors

Movies, Directors  $\rightarrow$  Movie\_Directors

## 5. Query

[illegible]