

Jaime Engl

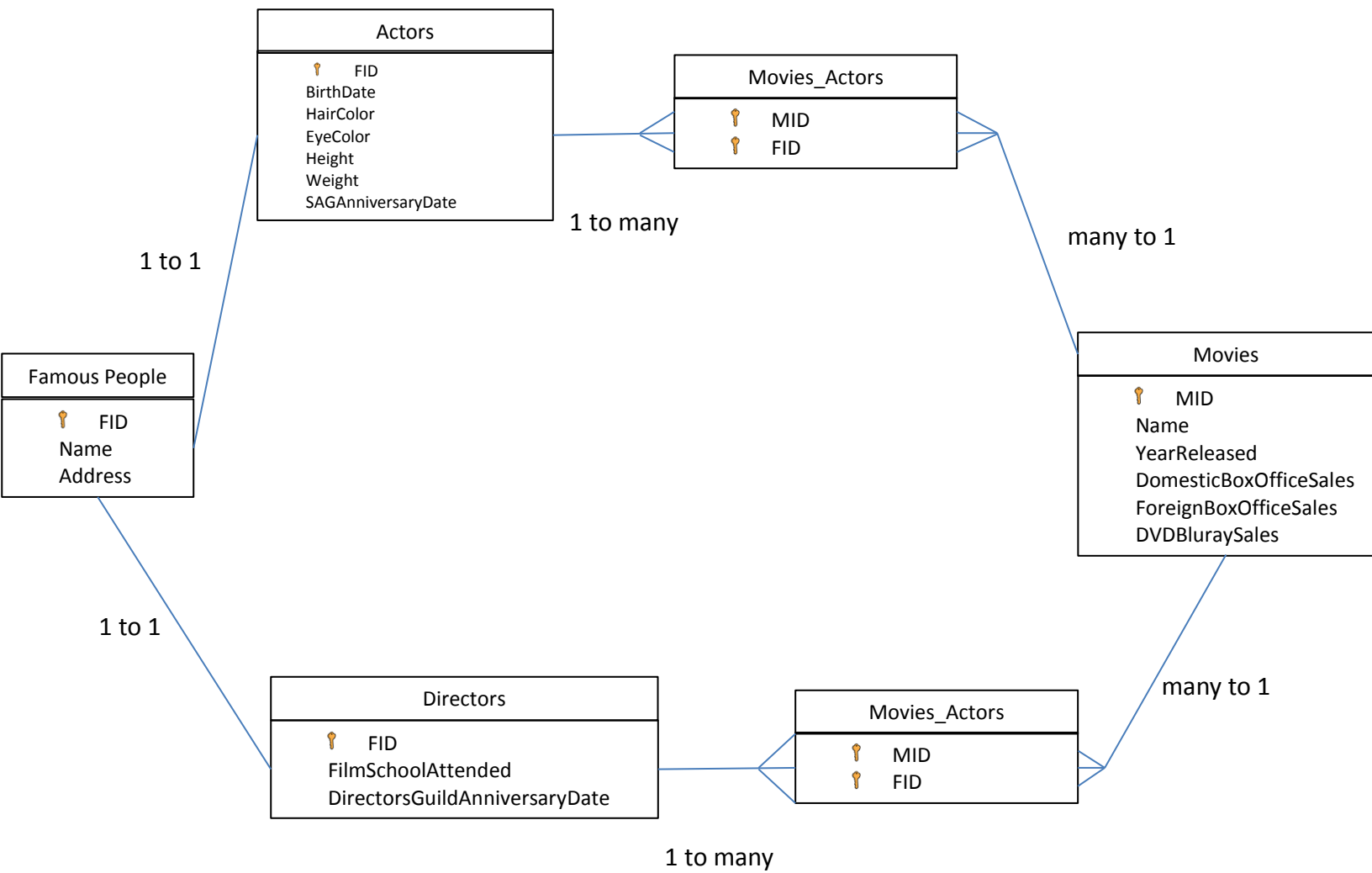
Professor Labouseur

Database Management

October 29, 2013

## Normalization #2

1.



2.

```
-- 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      char(4) not null,
    Name     text,
    YearReleased    integer,
    DomesticBoxOfficeSales numeric(12,2),
    ForeignBoxOfficeSales numeric(12,2),
    DVDBluraySales   numeric(12,2),
    SAGAnniversaryDate date,
    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.

```

-- 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 Blue Street Los Angeles,
California 90001');

INSERT INTO FamousPeople( fid, name, address )
    VALUES('f003', 'J.J. Abrams', '43 Purple Street Los Angeles, California
90002');

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', 'Jaime Engl', '2406 West Oakfield Road Grand Island, NY
14072');

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

INSERT INTO FamousPeople( fid, name, address )
    VALUES('f007', 'Charles Ropes', '90 Old Castle Point 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', 'Beijing Film Academy', '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', 'University of Southern California', '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
);

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

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

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

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

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

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

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

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

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

```

#### 4. Functional Dependencies

FamousPeople → Actors

FamousPeople → Directors

Movies, Actors → Movies\_Actors

Movies, Directors → Movies\_Directors

5.

```
select name
```

from famouspeople

```
where fid = (select fid
```

```
from movies_directors
```

```
where mid =(select mid
```

```
from movies_actors a
```

where fid = (select fid

from famouspeople

```
where name = 'Sean Connery'))))
```