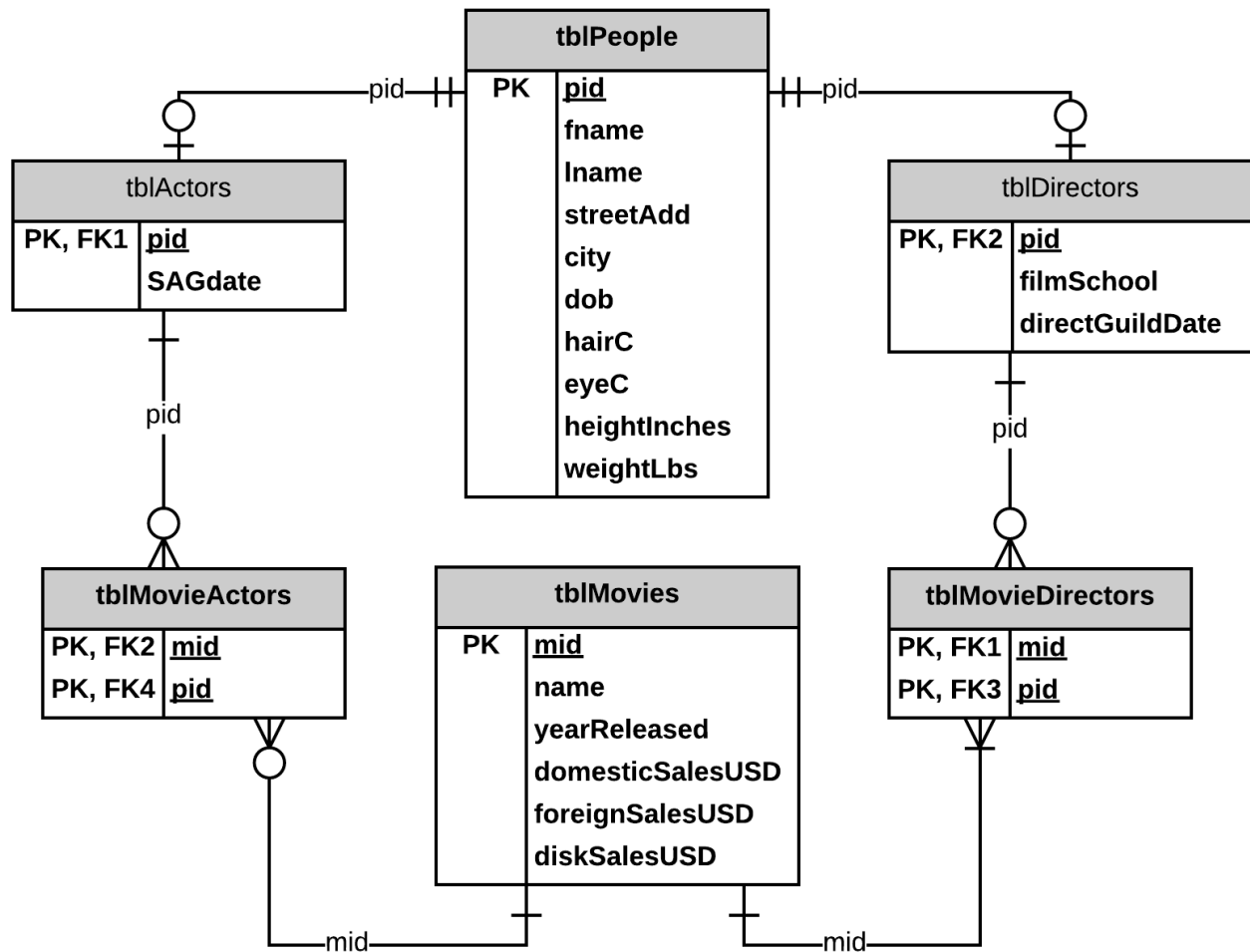


Lab 8 Normalization

1.

E/R DIAGRAM



2.

SQL CREATE STATEMENTS

-- People --

```
CREATE TABLE people (  
    pid          char(4) not null unique,  
    fName        text,  
    lName        text,  
    streetAdd    text,  
    city         text,  
    dob          date,  
    hairC        text,  
    eyeC         text,  
    heightInches integer,  
    weightLbs    integer,  
    primary key(pid)  
);
```

-- Actors --

```
CREATE TABLE actors (  
    pid          char(4) not null references people(pid),  
    SAGdate      date,  
    primary key(pid),  
    foreign key(pid) references people(pid)  
);
```

-- Directors --

```
CREATE TABLE directors (  
    pid          char(4) not null references people(pid),  
    filmSchool   text,  
    directGuildDate date,  
    primary key(pid),  
    foreign key(pid) references people(pid)  
);
```

-- Movies --

```
CREATE TABLE movies (  
    mid          char(4) not null,  
    name         text,  
    yearReleased integer,  
    domesticSalesUSD numeric(12,2),  
    foreignSalesUSD  numeric(12,2),  
    diskSalesUSD     numeric(12,2),  
    primary key(mid)  
);
```

-- This table establishes the associative entity between movies and actors --

-- MovieActors --

```
CREATE TABLE movieActors (  
    mid char(4) not null references movies(mid),  
    pid char(4) not null references people(pid),  
    primary key(mid, pid),  
    foreign key(mid) references movies(mid),  
    foreign key(pid) references people(pid)  
);
```

```
-- This table establishes the associative entity between movies and
directors --
-- MovieDirectors --
CREATE TABLE movieDirectors (
    mid    char(4) not null references movies(mid),
    pid    char(4) not null references people(pid),
    primary key(mid, pid),
    foreign key(mid) references movies(mid),
    foreign key(pid) references people(pid)
);
```

3. SQL INSERT STATEMENTS

```
-- People --
INSERT INTO people( pid, fname, lname, streetAdd, city, dob, hairC,
eyeC, heightInches, weightLbs )
VALUES( 'p001', 'Sean', 'Connery', '007 Agent Lane', 'London', '1945-
03-05', 'white', 'blue', 72, 175 ),
      ( 'p002', 'Ewan', 'McGregor', '66 Scag Way', 'Glasgow', '1970-
05-22', 'brown', 'blue', 69, 150 ),
      ( 'p003', 'Quentin', 'Tarantino', '77 Honey Bunny Circle', 'Los
Angeles', '1972-06-11', 'brown', 'brown', 74, 140 ),
      ( 'p004', 'Clint', 'Eastwood', '101 Lucky Punk Road', 'El
Paso', '1950-07-11', 'white', 'green', 74, 158 ),
      ( 'p005', 'Mel', 'Gibson', '21 Passion street', 'Los Angeles',
'1962-10-20', 'brown', 'green', 67, 140 ),
      ( 'p006', 'Steven', 'Spielberg', '34 Coconut Drive',
'Sarasota', '1955-03-04', 'brown', 'green', 70, 168 ),
      ( 'p007', 'Michael', 'Bay', '12 Explosions Avenue',
'Hollywood', '1978-11-08', 'brown', 'blue', 69, 155 );

-- Actors --
INSERT INTO actors( pid, SAGdate )
VALUES( 'p001', '2001-05-22' ),
      ( 'p002', '2006-07-11' ),
      ( 'p003', '2011-02-06' ),
      ( 'p004', '1988-05-04' ),
      ( 'p005', '2000-11-12' );

-- Directors --
INSERT INTO directors( pid, filmSchool, directGuildDate )
VALUES( 'p003', 'Tisch', '2001-07-06' ),
      ( 'p004', 'Juliard', '2005-09-22' ),
      ( 'p005', 'SVA', '2008-02-17' ),
      ( 'p006', 'Chicago', '1988-04-10' ),
      ( 'p007', 'Ringling', '2004-11-10' );

-- Movies --
INSERT INTO movies( mid, name, yearReleased, domesticSalesUSD,
foreignSalesUSD, diskSalesUSD )
VALUES( 'm001', 'The Revengening', 2013, 35.00, 85.00, 20.00 ),
      ( 'm002', '007 REDUX', 2014, 200.00, 500.00, 45.00 ),
      ( 'm003', 'The Hunt for Blue November', 1985, 350000.00,
120000.00, 3.00 ),
      ( 'm004', 'Trainspotting', 1990, 45000000.00, 36000.00,
1034555.00 ),
      ( 'm005', 'Explosions 2', 2015, 0.00, 0.00, 0.00 );
```

