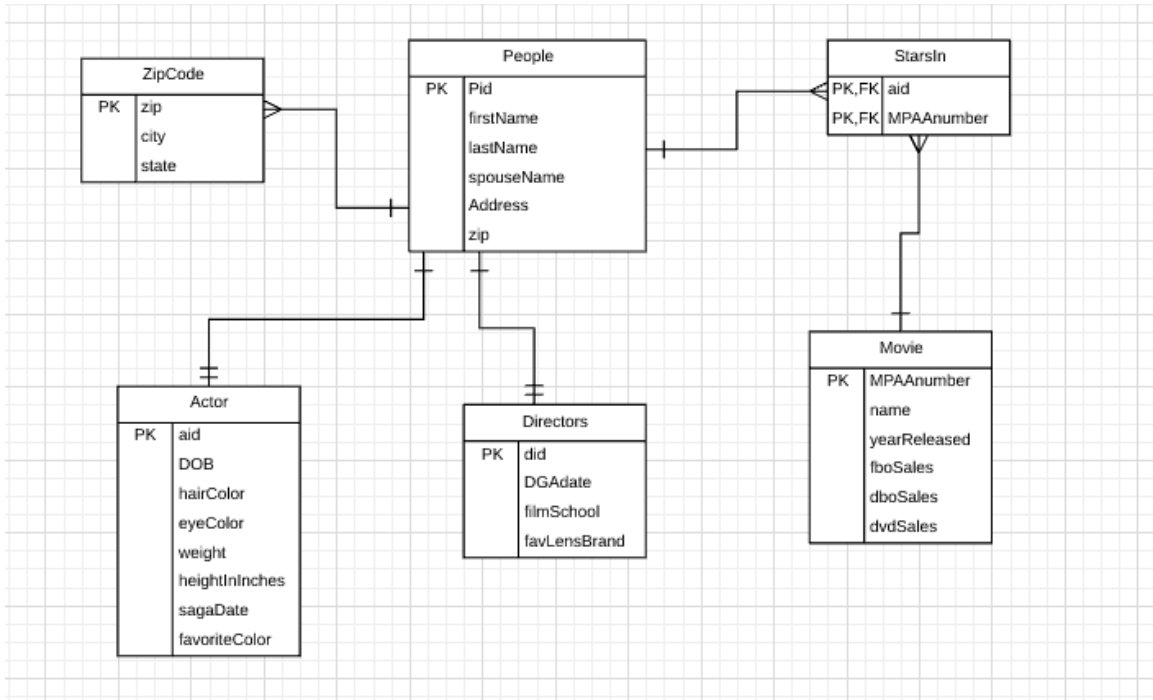Mark Rajovic
Labouseur
Database Management
Lab 8

2. SQL Create Statements

CREATE TABLE People (
         Pid char (4) NOT NULL,
         firstName text NOT NULL,
         lastName text NOT NULL,
         spouseName text NOT NULL,
         Address text NOT NULL,
         zip int NOT NULL,
         primary key (pid),
);

CREATE TABLE Actor (
         aid char (4) NOT NULL,
         pid char (4) NOT NULL REFERENCES People (pid),
         DOB date NOT NULL,
         hairColor text NOT NULL,
         eyeColor text NOT NULL,

```sql
        weight int NOT NULL,
        heightInInches NOT NULL,
        sagaDate date,
        favoriteColor text,
        primary key (aid),
);

CREATE TABLE Directors (
        did char (4) NOT NULL,
        pid char (4) NOT NULL REFERENCES People (pid),
        DGAdate date,
        filmSchool text,
        favLensBrand text,
        primary key (did),
);

CREATE TABLE Movie (
        MPAAnumber char (4) NOT NULL,
        name text NOT NULL,
        yearReleased date NOT NULL,
        fboSales int,
        dboSales int,
        dvdSales int,
        primary key (MPAAnumber),
);

CREATE TABLE StarsIn (
        MPAAnumber char (4) NOT NULL REFERENCES People (MPAAnumber),
        pid char (4) NOT NULL REFERENCES People (pid),
        primary key (MPAAnumber,pid),
);

CREATE TABLE ZipCode (
        zip char (5) NOT NULL,
        city text NOT NULL,
        state text NOT NULL,
        primary key (zip),
);
```

Drop Table Statement

```sql
DROP TABLE IF EXISTS People CASCADE;
DROP TABLE IF EXISTS ZipCode CASCADE;
DROP TABLE IF EXISTS Actor CASCADE;
DROP TABLE IF EXISTS Directors CASCADE;
DROP TABLE IF EXISTS Movie CASCADE;
```

DROP TABLE IF EXISTS StarsIn CASCADE;

3. Functional Dependencies
- People
    - pid→ firstName, lastName, spouseName, Address, zip
- Actor
    - pid→aid
    - aid→DOB, hairColor, eyeColor, weight, heightInInches, sagaDate, favoriteColor
- Directors
    - pid→did
    - did→DGAdate, filmSchool, favLensBrand
- Movie
    - MPAAnumber→ name, yearReleased, fboSales, dboSales, dvdSales
- ZipCode
    - Zip→ city, state
- StarsIn
    - pid, MPAAnumber

4. Inserts and Query

INSERT INTO People (pid, firstName, lastName, spouseName, Address, zip)
Values (001,'Sean', 'Connery', 'Micheline', '123 Cherry Lane', 11220);

INSERT INTO Actor (aid,pid, DOB, hairColor,eyeColor, weight, heightInInches, sagaDate, favoriteColor)
Values (001,001,'Jan-01-1999','brown','blue',200,72, 'Jan-01-1999', 'Red');

INSERT INTO Movie
Values (001, 'Bond', 2001, 5,6,7,8);

INSERT INTO StarsIn
Values (001,001);

INSERT INTO StarsIn
Values (001,002);

INSERT INTO People (pid, firstName, lastName, spouseName, Address, zip)
Values (002, 'Guy', 'Hamilton', 'Kerima', '124 Cherry Lane', 11221);

INSERT INTO Director (did, pid, DGAdate, filmSchool, favLensBrand)
Values (001,002, 'Jan-01-1965' 'Harvard', 'Kodiak;);

<u>Query Statement</u>

```sql
Select  * from People
Where pid in (select pid
    from Directors
    where did in (select did
            from StarsIn
            where MPAAnumber in (Select MPAAnumber
                from Movie
               where MPAAnumber in  (select MPAAnumber
                    from StarsIn
                    where pid in (select pid
                        from Actor
                        where pid in (select pid
                                from People
                                where firstName = 'Sean' and lastName = 'Connery'
                                )
                        )
                    )
                )
            )
    );
```