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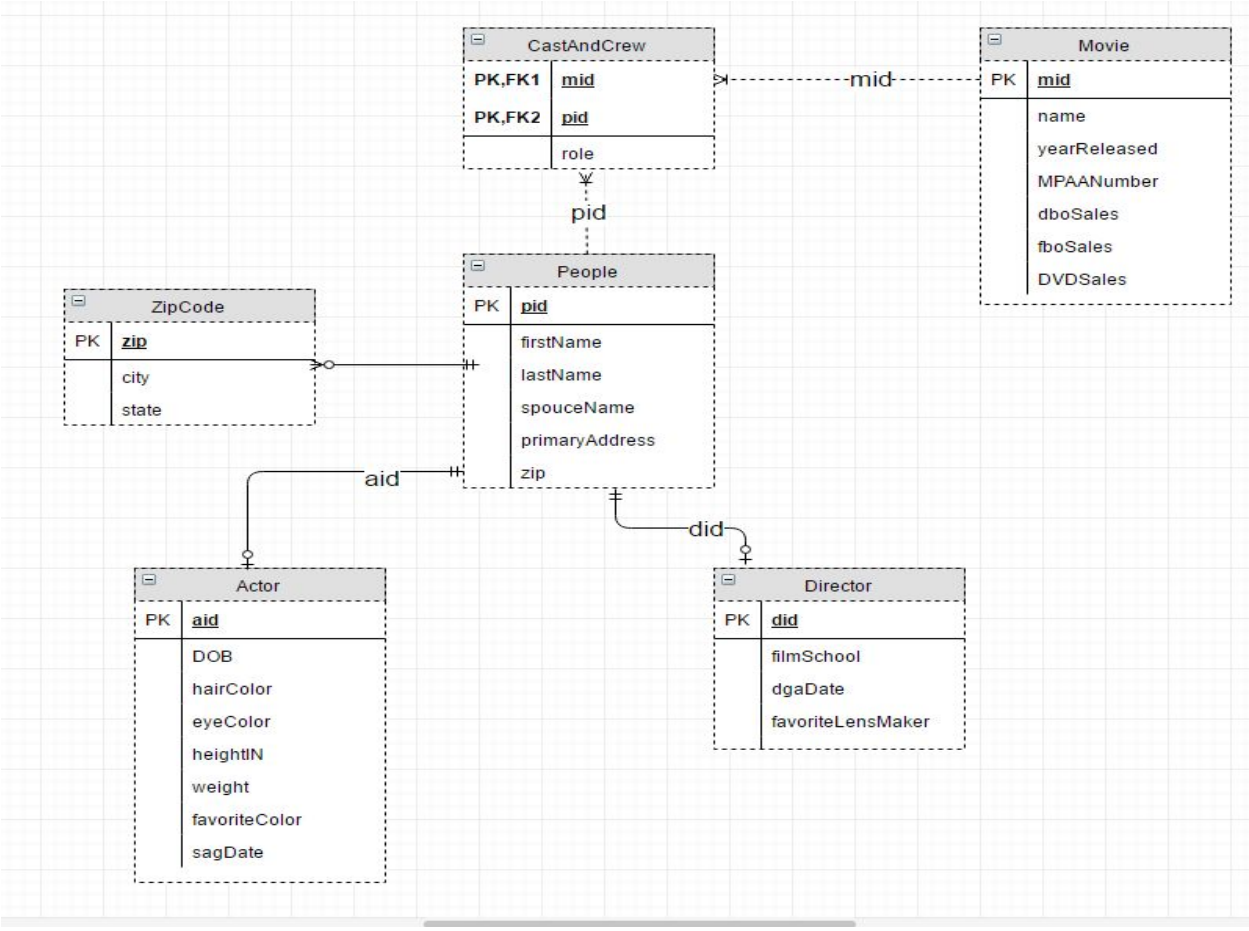
Database Management
Professor Labouseur
Normalization Two

ER DIAGRAM



SQL CREATE STATEMENTS:

```
/* DROP TABLE STATEMENT*/
DROP TABLE IF EXISTS people CASCADE;
DROP TABLE IF EXISTS zipCode CASCADE;
DROP TABLE IF EXISTS actors CASCADE;
DROP TABLE IF EXISTS directors CASCADE;
DROP TABLE IF EXISTS movie CASCADE;
DROP TABLE IF EXISTS castAndCrew CASCADE;
```

```
/*PEOPLE TABLE*/
CREATE TABLE people (
        pid             CHAR(10)    UNIQUE      NOT NULL,
        firstName       TEXT        NOT NULL,
        lastName        TEXT        NOT NULL,
        spouceName      TEXT,
        primaryAddress  TEXT        NOT NULL,
        zipCode         CHAR(5)     NOT NULL    REFERENCES zipCode(zipCode),
        primary key(pid)
);
/*ZIPCODE*/
CREATE TABLE zipCode (
        zipCode         CHAR(5)     NOT NULL,
        city            TEXT        NOT NULL,
         state          TEXT        NOT NULL,
        primary key(zipCode)
);
/*MOVIES*/
CREATE TABLE movies (
        mid             CHAR(10)
        name            TEXT            NOT NULL,
        yearReleased    DATE            NOT NULL,
        mpaaNumber      INTEGER         NOT NULL,
        dboSales        INTEGER         NOT NULL,
        fboSales        INTEGER         NOT NULL,
        DVDsales        INTEGER         NOT NULL,
        primary key(mid)
);
/*DIRECTORS*/
CREATE TABLE directors (
        did             CHAR(10)        NOT NULL    REFERENCES people(pid),
        filmSchool      TEXT,
        dgaDate         DATE,
        favoriteLenMaker    TEXT,
        primary key(did)
);
```

```
/*ACTORS*/
CREATE TABLE actors (
        aid             CHAR(10)        NOT NULL    REFERENCES people(pid),
        DOB             DATE            NOT NULL,
        hairColor       TEXT            NOT NULL,
        eyeColor        TEXT            NOT NULL,
        heightIN        INTEGER         NOT NULL,
        weight          INTEGER         NOT NULL,
        favoriteColor   TEXT            NOT NULL,
        sagDate         DATE            NOT NULL,
        primary key(aid)
);
/*CAST AND CREW*/
CREATE TABLE castAndCrew (
        mid                     CHAR(10)    NOT NULL    REFERENCES movies(mid),
        pid                     CHAR(10)    NOT NULL    REFERENCES people(pid),
        role                    TEXT        NOT NULL,
        primary key(mid, pid)
);
```

FUNCTIONAL DEPENDENCIES:

pid → firstName, lastName, spouceName, primaryAddress, zipCode
aid → DOB, hairColor, eyeColor, heightIN, weight, favoriteColor, sagDate
did → filmSchool, dgaDate, favoriteLensMaker
mid → name, yearReleased, mpaaNumber, dboSales, fboSales, DVDsales
zipCode → city, state