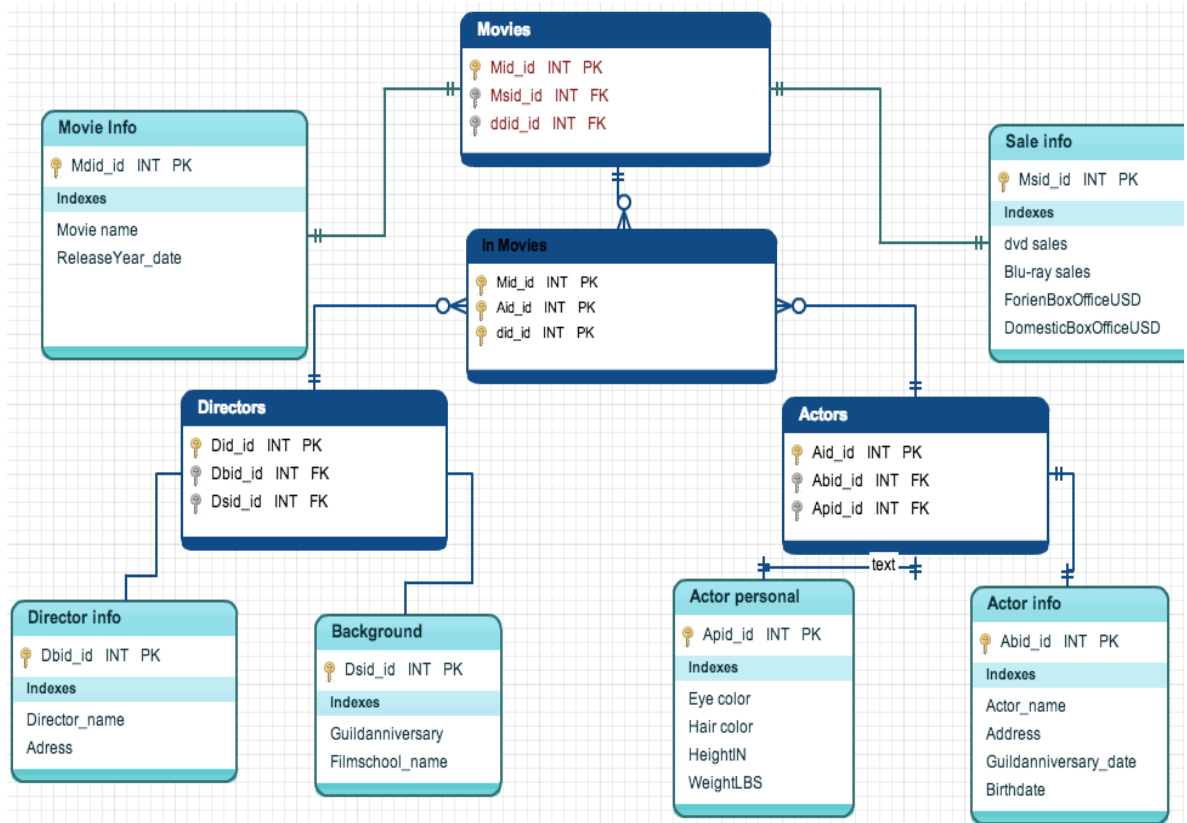


Brad Huntington

11/3/13

1) ER diagram



2) SQL create statements.

```
create table if not exists inmovies (  
    mid_id Char (5) REFERENCES movies(mid_id),  
    did_id Char (5) REFERENCES directors(did_id),  
    aid_id Char (5) REFERENCES actors(aid_id),  
    Primary key (mid_id,did_id,aid_id);
```

```
create table if not exists actors (  
    aid_id Char (5) NOT NULL PRIMARY KEY,  
    apid_id Char (5) REFERENCES actorpersonalinfo(apid_id),  
    abid_id Char (5) REFERENCES actorbios(abid_id));
```

```
create table if not exists Actor_Personal (  
    apid_id Char (5) NOT NULL Primary key,  
    eyecolor CHAR (20) NOT NULL,  
    haircolor CHAR (20) NOT NULL,  
    height CHAR (10) NOT NULL,  
    weight CHAR (10) NOT NULL);
```

```
create table if not exists actor_info (  
    abid_id Char (5) NOT NULL PRIMARY KEY,  
    actor_name CHAR (20) NOT NULL,  
    address CHAR (50) NOT NULL,  
    aguild_date DATETIME NOT NULL,  
    birth_date DATETIME NOT NULL);
```

```
create table if not exists directors (  
    did_id Char (5) NOT NULL PRIMARY KEY,  
    dbid_id Char (5) REFERENCES directorbios(dbid_id),
```

```
dsid_id Char (5) REFERENCES directorskills(dsid_id));
```

```
create table if not exists directorinfo (  
    dbid_id Char (5) NOT NULL PRIMARY KEY ,  
    director_name CHAR (20) NOT NULL,  
    address CHAR (50) NOT NULL);
```

```
create table if not exists Background (  
    dsid_id Char (5) NOT NULL PRIMARY KEY,  
    dguild_date DATETIME NOT NULL,  
    filmschool_name CHAR (30) NOT NULL);
```

```
create table if not exists directors (  
    did_id Char (5) NOT NULL PRIMARY KEY,  
    dbid_id Char (5) REFERENCES directorbios(dbid_id),  
    dsid_id Char (5) REFERENCES directorskills(dsid_id));
```

```
create table if not exists movies (  
    mid_id Char (5) NOT NULL,  
    PRIMARY KEY (mid_id),
```

```
mdid_id Char (5) REFERENCES moviesdata(mdid_id),  
msid_id Char (5) REFERENCES moviesales(msid_id));
```

```
create table if not exists moviedata (  
mdid_id Char (5) NOT NULL PRIMARY KEY,  
movie_name CHAR (30) NOT NULL,  
releaseYear_date DATETIME NOT NULL);
```

```
create table if not exists Sales_info (  
msid_id Char (5) NOT NULL PRIMARY KEY,  
dvdsales CHAR (30) NOT NULL,  
blu-ray_sales CHAR (30) NOT NULL,  
forgeinboxOfficeIUUSDHAR (30) NOT NULL,  
demesticboxOfficeUSD CHAR (30) NOT NULL);
```

3)

```
insert into actors (aid_id, apid_id, abid_id)  
values('1', 'a01', 'a001'),  
('2', 'a02', 'a001'),  
('3', 'a03', 'a001');
```

```
insert into actor_personal (apid_id, haircolor, eyecolor, height, weight)
```

```
values('a01', 'black', 'brown', '68', '184'),  
('a02', 'blue', 'yellow', '48', '100'),  
('a03', 'magenta', 'red', '100', '250');
```

```
insert into actorInfo (abid_id, actor_name, address, birth_date, aguild_date)  
values('a001', 'Mark wahlberg', '16 blossom ct. Yorktown heights New York',  
'1971:06:5 00:00:00', '2013:10:1 00:00:00'),  
('a002', 'Sean Connery', '49 birch lane new milford Connecticut', '1980:01:4  
00:00:00', '2013:7:3 00:00:00'),  
('a003', 'Vin Disal', '12 meadow lane Poughkeepsie New York', '1975:08:12  
00:00:00', '2013:1:4 00:00:00');
```

```
insert into directors (did_id, dbid_id, dsid_id)  
values('d1', 'd01', 'd001'),  
('d1', 'd02', 'd002'),  
('d1', 'd03', 'd003');
```

```
insert into directorInfo (dbid_id, director_name, address)  
('d01', 'Antoine Fuqua', '304 Park Avenue South New York NY 10010'),  
('d02', 'Brad Huntington', '302 Park Avenue South New York NY 10010'),  
('d03', 'Walter White', '301 Maddison Avenue South New York NY 10010');
```

```
insert into Background (dsid_id, filmschool_name, dguild_date)
values('d001', ' Connecticut University', '1997:08:23 00:00:00'),
('d002', 'Marist College', '1992:08:23 00:00:00'),
('d003', 'New Hampshire University', '1999:08:23 00:00:00');
```

```
insert into movies (mid_id, mdid_id, msid_id)
values('m1', 'm01', 'm001'),
('m2', 'm02', 'm001'),
('m3', 'm03', 'm001');
```

```
insert into movie_info (mdid_id, movie_name, release_date)
values ('m01', 'Monsters INC', '2007'),
('m02', 'Harold and Kumar go to White castle', '2007'),
('m03', 'Hello Kitty Island Adventure', '2007');
```

```
insert into Sales_info (msid_id, bluraysales, dvdsales, forgeinbo, demesticbo)
values('m001', '3,494,324', '20,284,842', '400,000,167,725', '44,975,183'),
('m002', '2,494,324', '1,284,842', '9,167,725', '90,975,183'),
('m003', '1,494,324', '50,284,842', '100,167,725', '975,183');
```

```
insert into inmovies (mid_id, did_id, aid_id)
values('m1', 'd1', 'a1'),
```

('m2', 'd2', 'a2'),

('m3', 'd3', 'a3');

4) Functional dependencies

- a. INMovies > Actors+Movies+Directors
- b. Actors > Actor Personal+ Actor info
- c. Movies > Movie info + sale info
- d. Directors > Director info + background
- e. Indexes of sales info > Msid_id
- f. Indexes of movie info > Mdid_id
- g. Indexes of director info > Dbid_id
- h. Indexes of background > Dsid_id
- i. Indexes of actor info > Abid_id
- j. Indexes of actor personal > Apid_id

5)

```
SELECT DISTINCT c.director_name
FROM actors a, actorinfo b, directorinfo c, directors d, inmovies m
WHERE c.dbid_id = d.dbid_id
AND d.did_id = m.did_id
AND m.aid_id = a.aid_id
AND a.abid_id = b.abid
AND b.actorname = 'sean connery'
```