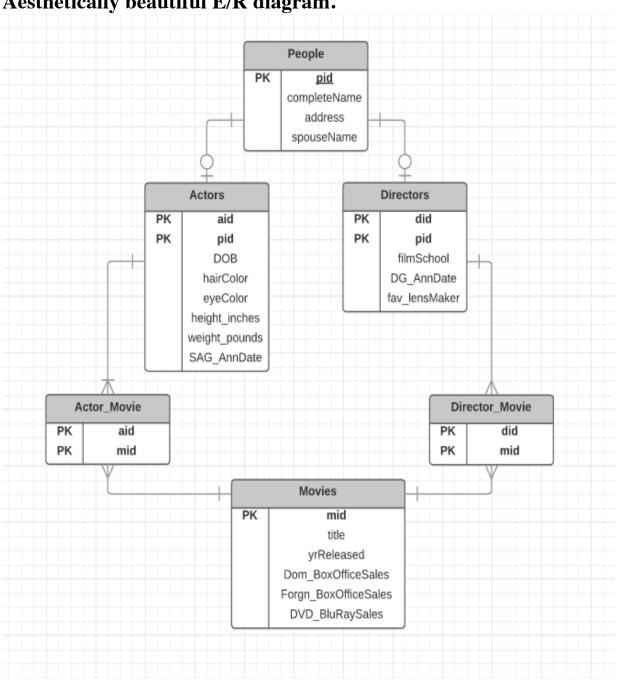
Michael Guarino Alan Labouseur CMPT 308 Database Systems March 31, 2016

Lab8: Normalization Two

1. Aesthetically beautiful E/R diagram.



2. SQL create statements for each table.

```
create table people(
  pid char(4) not null,
  completeName text,
  address text,
  spouseName text,
  primary key(pid)
create table actors(
 aid char(4) not null.
 pid char(4) not null,
 DOB date,
 hairColor text,
 eyeColor text,
 height_inches float,
 weight_pounds float,
 SAG_AnnDate date,
 primary key(aid,pid)
);
create table directors(
  did char(4) not null,
 pid char(4) not null,
  filmSchool text,
 DG_AnnDate date,
  fav_lensMaker text,
 primary key(did,pid)
```

```
create table movies(
  mid char(4) not null,
  title text not null,
  yrReleased date,
  Dom_BoxOfficeSales numeric(12,2),
  Forgn_BoxOfficeSales numeric(12,2),
  DVD BluRaySales numeric(12,2),
  primary key(mid)
create table actor movie(
  mid char(4) not null,
  aid char(4) not null,
  primary key(mid, aid)
);
create table director_movie(
  mid char(4) not null,
  did char(4) not null,
  primary key(mid, did)
```

3. Functional dependencies for each table.

- People Table:
 - (pid) → completeName, address, spourseName
- Actors Table
 - (aid, pid)→DOB, hairColor, eyeColor, height_inches, weight_pounds, SAG_AnnDate
- Directors Table
 - (did, pid)→filmSchool, DG_AnnDate, fav_lensMaker
- Movies Table
 - o (mid)→ title, yrReleased, Dom_BoxOfficeSales,
 Forgn BoxOfficeSales, DVD BluRaySales

- Actor_Movie Table

 (aid, mid)→
- Director_Movie Table

 (did, mid)→
- 4. Query to show all directors with whom actor "Sean Connery" has worked.

```
--QUERY TO SHOW ALL DIRECTORS WITH WHOM ACTOR "SEAN CONNERY" HAS WORKED: select completeName from people p inner join directors d on p.pid=d.pid inner join director_movie dm on d.did=dm.did where dm.mid in (select mid from actor_movie am inner join actors a on am.aid=a.aid inner join people p on a.pid=p.pid where p.completeName='Sean Connery');
```

SQL included in submission for further inspection if needed.