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Database Systems

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<u>Lab 8:</u>

1.

Actors
ActorName
DOB
HairColor
EyeColor
Height
Weight
SGAD

Movies
Mid
MovieName
ReleaseDate
DomesticSales
ForiegnSales
ReleaseSales

Directors
DirectorName
Address
School
DGAD

ActorName

MovieName,
ReleaseDate

MovieName,
ReleaseDate

DirectorName

ActedIn
ActorName
Mid

Directed
DirectorName
mid
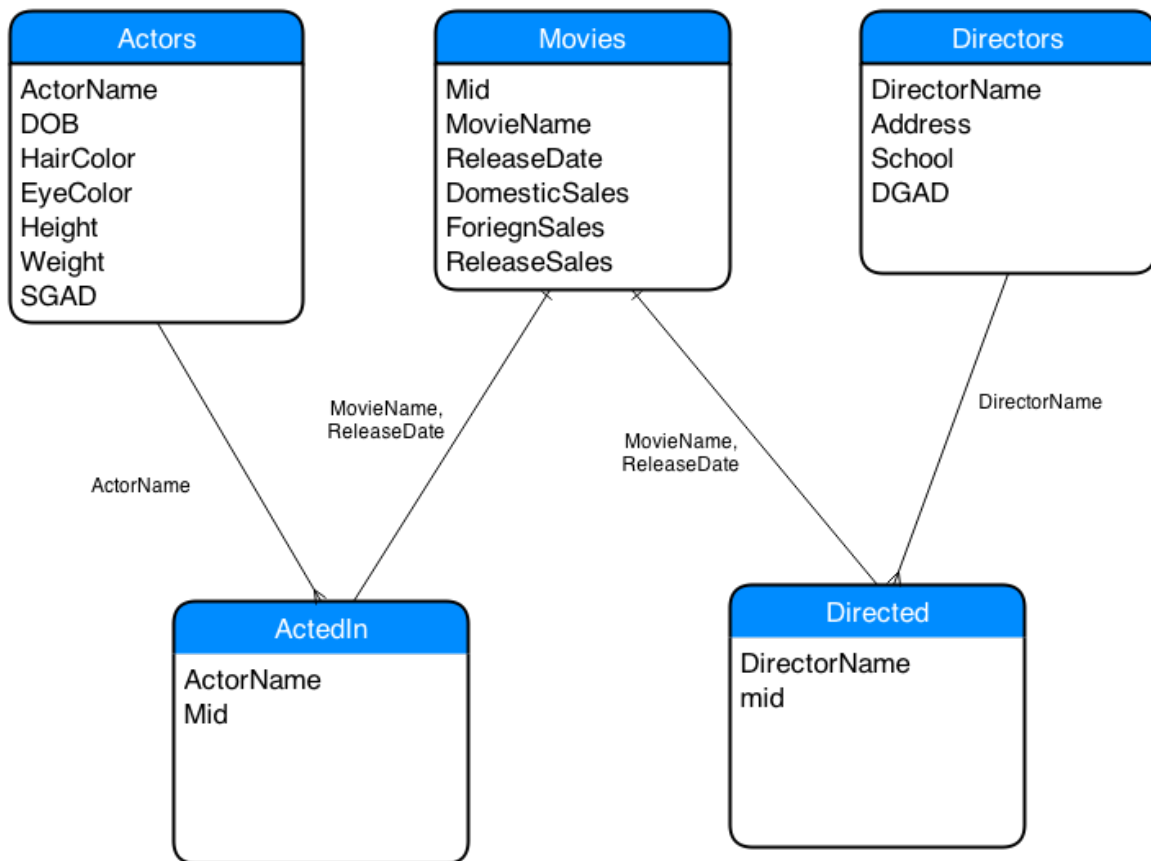
Primary Keys:

Actors: ActorName, since the Screen Guild requires that no two names are the same.

Movies: Mid, which uniquely identifies each movie, even if the names are the same

Directors: DirectorName, the Directors Guild insures that no two names are the same

ActedIn: ActorName, mid, a composite key that identifies the actor and the ID of the movie that he acted in

Directed: DirectorName, mid a composite key that identifies the director and the ID of the movie that he acted in

2.

```
CREATE TABLE Actors (
        ActorName text NOT NULL,
        DOB date NOT NULL,
        HairColor text NOT NULL,
        EyeColor text NOT NULL,
        Height text NOT NULL,
        Weight text NOT NULL,
        SGAD date NOT NULL,
PRIMARY KEY(ActorName)
) ;


CREATE TABLE Directors (
        DirectorName text NOT NULL,
        Address text NOT NULL,
        School text NOT NULL,
        DGAD date NOT NULL,
PRIMARY KEY(DirectorName)
) ;
```

```
CREATE TABLE Movies (

        Mid Serial NOT NULL,

        MovieName text NOT NULL,

        ReleaseDate date NOT NULL,

        DomesticSales integer NOT NULL,

        ForeignSales integer NOT NULL,

        ReleaseSales integer NOT NULL,

PRIMARY KEY(Mid)

) ;


CREATE TABLE ActedIn (

        ActorName text NOT NULL,

        Mid integer NOT NULL,

PRIMARY KEY(ActorName, Mid)

) ;


CREATE TABLE Directed (

        DirectorName text NOT NULL,

        Mid integer NOT NULL,

PRIMARY KEY(DirectorName, Mid)

) ;
```
3.

--Actors Table--

INSERT INTO actors

(ActorName, DOB, HairColor, EyeColor, Height, Weight, SGAD)

VALUES ('Sean Connery', '8/25/30', 'White' , 'Brown', 74, 200, '6/14/72');

INSERT INTO actors

(ActorName, DOB, HairColor, EyeColor, Height, Weight, SGAD)

VALUES ('Ursula Andress', '3/9/36', 'Blonde', 'Brown', 65, 120, '3/12/75');

INSERT INTO actors

(ActorName, DOB, HairColor, EyeColor, Height, Weight, SGAD)

VALUES ('Harrison Ford', '7/13/342', 'Grey', 'Brown', 73, 200, '4/11/71');

--Directors Table—

INSERT INTO directors

(DirectorName, Address, School, DGAD)

VALUES ('Terrance Young', '100 Brook Hill Drive', 'Cambridge', '5/30/71');

INSERT INTO directors

(DirectorName, Address, School, DGAD)

VALUES ('Irvin Kershner', '1801 N Broad Street', 'Temple University', '7/5/73');

--Movies Table--

INSERT INTO movies

(MovieName, ReleaseDate, DomesticSales, ForeignSales, ReleaseSales)

VALUES ('Dr No', '5/8/62', 16067035, 43500000, 23400000);

INSERT INTO movies

(MovieName, ReleaseDate, DomesticSales, ForeignSales, ReleaseSales)

VALUES ('Never Say Never Again', '10/7/83', 55500000, 1045000, 41200000);

INSERT INTO movies

(MovieName, ReleaseDate, DomesticSales, ForeignSales, ReleaseSales)

VALUES ('Star Wars: Episode V', '6/20/80', 75000000, 3045000, 82300000);

--ActedIn Table--

INSERT INTO actedin

(ActorName, Mid)

VALUES ('Sean Connery', 1);

INSERT INTO actedin

(ActorName, Mid)

VALUES ('Ursula Andress', 1);

INSERT INTO actedin

(ActorName, Mid)

VALUES ('Sean Connery', 2);

INSERT INTO actedin

(ActorName, Mid)

VALUES ('Harrison Ford', 3);

--Directed Table--

INSERT INTO directed

(DirectorName, Mid)

VALUES ('Terrance Young', 1);

INSERT INTO directed

(DirectorName, Mid)

VALUES ('Irvin Kershner', 2);

INSERT INTO directed

(DirectorName, Mid)

VALUES ('Irvin Kershner', 3);

4.

--Actors Table--

ActorName -> Birthday, HairColor, EyeColor, Height, Weight, GAD

--Directors Table--

DirectorName -> Address, School, DGAD

--Movies Table--

mid -> MovieName, ReleaseDate

MovieName, ReleaseDate -> DomesticSales, ForeignSales, ReleaseSales

5.

```
SELECT * FROM

directors WHERE directorname IN

        (SELECT directorname FROM directed d

        WHERE d.mid IN

                (SELECT m.mid FROM movies m

                WHERE m.movieName IN

                        (SELECT a.movieName FROM actedin a

                        WHERE a.actorName = 'Sean Connery')));
```