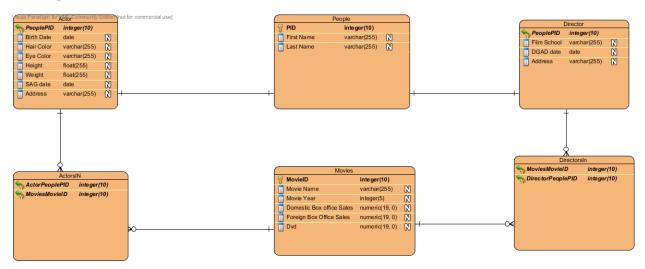
Richard Liao

11/2/2013

E/R Diagram



Create Statements

DROP TABLE IF EXISTS People;

CREATE TABLE People(

PID Serial not null,

firstName varchar(255),

lastName varchar(255),

Primary Key(PID)

);

DROP TABLE IF EXISTS Movies;

CREATE TABLE Movies(

MovieID SERIAL not null,

MovieName varchar(255) not null,

MovieYear int not null,

DomesticBOS numeric(255) not null,

ForeignBOS numeric Not null,

DvdSales numeric Not null,

```
Primary Key (MovieID)
);
DROP TABLE IF EXISTS Actors;
CREATE TABLE Actors(
PID int not null,
BirthDate date not null,
HairColor varChar(255),
eyeColor varchar(255),
height float Not null,
weight float Not null,
SAG date,
address varchar(255),
Foreign Key (PID) References People (PID),
Primary Key(PID)
);
DROP TABLE IF EXISTS Directors;
CREATE TABLE Directors(
PID int not null,
filmSchool varchar(255) not null,
DGAD date,
address varchar(255),
Foreign Key (PID) References People (PID),
Primary Key(PID)
);
```

```
CREATE TABLE DirectorsIN (
PID int not null,
MovieID int not null,
Foreign Key (PID) References Directors (PID),
Foreign Key (MovieID) References Movies (MovieID),
Primary key (Pid, MovieID)
);
DROP TABLE IF EXISTS ActorsIN;
CREATE TABLE ActorsIN (
PID int not null,
MovieID int not null,
Foreign Key (PID) References Actors (PID),
Foreign Key (MovieID) References Movies (MovieID),
Primary key (Pid, MovieID)
);
Insert Statements
--People
INSERT INTO People(FirstName,LastName)
VALUES('Daniel','Craig');
INSERT INTO People(FirstName,LastName)
VALUES('Sean','Connery');
INSERT INTO People(FirstName,LastName)
VALUES('Halle','Berry');
INSERT INTO People(FirstName,LastName)
VALUES('Pierce', 'Brosnan');
INSERT INTO People(FirstName,LastName)
```

```
VALUES('Guy','Hamilton'); --Goldfinger
INSERT INTO People(FirstName,LastName)
VALUES('Martin','Campbell');--GoldenEYE
INSERT INTO People(FirstName,LastName)
VALUES('Roger','Spottiswoode');--Tomorrow Never Dies
INSERT INTO People( FirstName,LastName)
VALUES('Lee', 'Tamahori'); -- Die Another Day
INSERT INTO People(FirstName,LastName)
VALUES('Martin','Campbell');--Casino Royale
--ACTORs
INSERT INTO Actors(PID,BirthDate,HairColor,eyeColor,height,weight,SAG,address)
VALUES(1,'1968-07-02','blonde','blue',132,163,'1998-05-13','4 Balogne DR Los Angelos');
INSERT INTO Actors(PID,BirthDate,HairColor,eyeColor,height,weight,SAG,address)
VALUES(2, '1930-08-25', 'white', 'brown', 232, 173, '1954-05-13', '133 Cheddar DR Trenton');
INSERT INTO Actors(PID,BirthDate,HairColor,eyeColor,height,weight,SAG,address)
VALUES(3, '1980-12-02', 'black', 'brown', 152, 130, '1999-07-23', '12 Imaginary DR San Fransico');
INSERT INTO Actors(PID,BirthDate,HairColor,eyeColor,height,weight,SAG,address)
VALUES(4,'1974-3-13','brown','brown',190,153,'1984-10-06','5 Pickle DR Washington D.C');
--Director
INSERT INTO Directors(PID,filmSchool,DGAD,address)
VALUES(5, 'Academy of Foreign Cheeses', '1980-11-02', '1232 Chicken Drive Balogne City'); --Goldfinger
INSERT INTO Directors(PID,filmSchool,DGAD,address)
VALUES(6, 'Academy of Domestic Salmon', '1992-01-01', '63 Rooster Drive Ham City'); -- Golden EYE
INSERT INTO Directors(PID,filmSchool,DGAD,address)
VALUES(7, 'Academy of Foreign Cheeses', '1964-06-05', '82 Poultry Road Fish City'); -- Tomorrow Never
Dies
```

```
INSERT INTO Directors(PID,filmSchool,DGAD,address)
VALUES(8, 'Academy of Foreign Cheeses', '1973-09-10', '90 Reeses Ave Cake City'); -- Die Another Day
INSERT INTO Directors(PID,filmSchool,DGAD,address)
VALUES(9, 'Academy of Foreign Cheeses', '2012-12-12', '23 Butter Finger Drive Herseys City');--Casino
Royale
--MOVIES
INSERT INTO Movies (MovieName, MovieYear, DomesticBos, ForeignBOS, DvdSales)
VALUES('Goldfinger',1964,124900000,123222444,2422331);
INSERT INTO Movies (MovieName, MovieYear, DomesticBos, ForeignBOS, DvdSales)
VALUES('Goldeneye',1995,352194034,163334433,63342321);
INSERT INTO Movies (MovieName, MovieYear, DomesticBos, ForeignBOS, DvdSales)
VALUES('Tomorrow Never Dies',1997,333011068,34341233,62522321);
INSERT INTO Movies (MovieName, MovieYear, DomesticBos, ForeignBOS, DvdSales)
VALUES('Die Another Day',2002,431971116,162334433,64242321);
INSERT INTO Movies (MovieName, MovieYear, DomesticBos, ForeignBOS, DvdSales)
VALUES('Casino Royale',2006,599045960,262334433,34242321);
INSERT INTO Movies (MovieName, MovieYear, DomesticBos, ForeignBOS, DvdSales)
VALUES('Diamonds Are Forever',1971,12422425,23433433,3434343321);
--Actors In
INSERT INTO ActorsIn(PID, MovieID)
VALUES(1,5);
INSERT INTO ActorsIn(PID, MovieID)
VALUES(2,1);
INSERT INTO ActorsIn(PID, MovieID)
VALUES(3,4);
INSERT INTO ActorsIn(PID, MovieID)
```

VALUES(4,3);

```
INSERT INTO ActorsIn(PID,MovieID)
VALUES(4,2);
INSERT INTO ActorsIn(PID,MovieID)
VALUES(2,6);
--Directors IN
INSERT INTO DirectorsIn(PID,MovieID)
VALUES(5,1);
INSERT INTO DirectorsIn(PID,MovieID)
VALUES(6,2);
INSERT INTO DirectorsIn(PID,MovieID)
VALUES(7,3);
INSERT INTO DirectorsIn(PID,MovieID)
VALUES(8,4);
INSERT INTO DirectorsIn(PID,MovieID)
VALUES(9,5);
INSERT INTO DirectorsIn(PID,MovieID)
VALUES(5,6);
Query:
Select distinct firstName, lastName
from people
where pid In (
       select pid
       from directorsIN
       where movieid IN (
               select movieid
               from actorsIN
```

```
where pid IN (
                      Select pid
                       from people
                       where lastname = 'Connery'
                      and firstName ='Sean'
                              )
                       )
               )
Functional Dependencies:
People:
PID → First Name and Last Name
Director:
PID → Film School, DGAD, Address
Actor:
PID → Birth Date, Hair color, Eye color, height, weight, SAG, address
Movies:
MovieID → Movie Name, Movie Year, DomesticBOS, ForeignBOS, and DVD
ActorsIN:
(PID, MovieID)→
DirectorsIN:
(PID,MovieID)→
```