

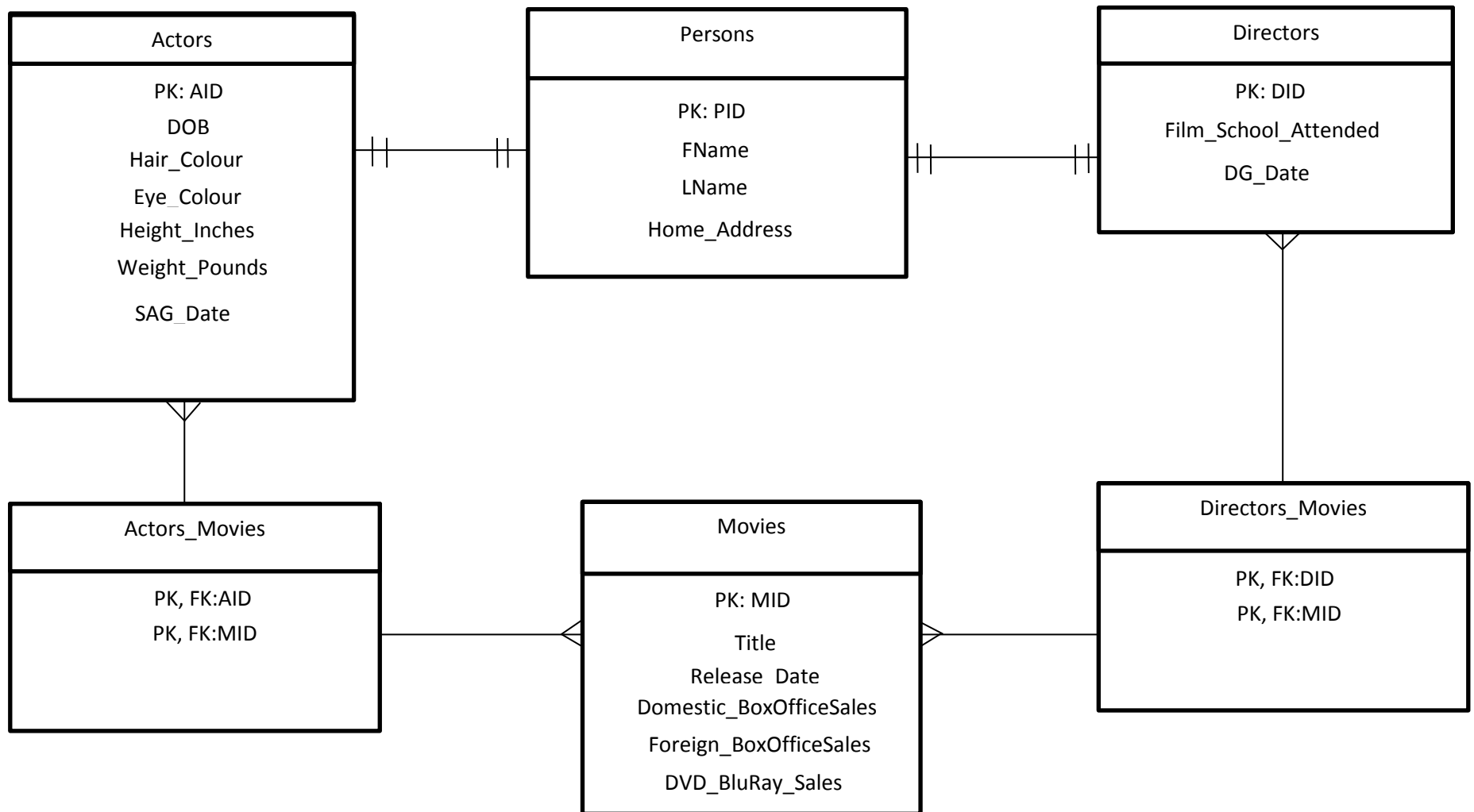
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CMPT 308

11/4/13

Normalization HW 2

1.



2. Create Tables

--Persons

```
CREATE TABLE Persons (  
  PID char(4) NOT NULL,  
  FName Varchar(30) NOT NULL,  
  LName VarChar(30) NOT NULL,  
  Home_Address TEXT NOT NULL,  
  primary key (PID)  
);
```

--Actors

```
CREATE TABLE Actors (  
  AID char(4) NOT NULL ,  
  DOB DATE NOT NULL,  
  Hair_Colour VarChar(20) NOT NULL,  
  Eye_Colour VarChar(10) NOT NULL,  
  Height_Inches int,  
  Weight_Pounds int,  
  SAG_DATE DATE,  
  
  primary key (AID) );
```

--Directors

```
CREATE TABLE IF NOT EXISTS Directors (  
  DID char (4) NOT NULL,  
  Film_School_Attended VarChar (30),  
  DG_Date DATE NOT NULL,  
  primary key (DID)  
);
```

-- movies

```
CREATE TABLE IF NOT EXISTS Movies (  
  MID char (4) NOT NULL,  
  Title TEXT NOT NULL,  
  Release_Date DATE NOT NULL,  
  Domestic_BoxOfficeSales int NOT NULL,  
  Foreign_BoxOfficeSales int NOT NULL,  
  DVD_BluRay_Sales int NOT NULL,  
  
  primary key (MID))
```

--Actors_Moviess

```
CREATE TABLE IF NOT EXISTS Actors_Movies (  
  AID char(4) NOT NULL references Actors (AID),  
  PID char(4) NOT NULL references Persons (PID),  
  MID char(4) NOT NULL references Movies (MID),  
  primary key (AID,MID) );
```

--Directors_Movies

```
CREATE TABLE IF NOT EXISTS Directors_Movies (  
  DID char(4) NOT NULL references Directors (DID),  
  PID char(4) NOT NULL references Persons (PID),  
  MID char(4) NOT NULL references Movies (MID),  
  
  primary key (DID,MID) );
```

3. Insert Into Lines

```
INSERT INTO Actors(AID, DOB, Hair_Colour, Eye_Colour, Weight_Pounds, SAG_DATE)
    Values ('a001', '1980-04-12 00:00:00', 'Blonde' , 'Blue' , '175', '1998-12-23 00:00:00');

INSERT INTO Actors(AID, DOB, Hair_Colour, Eye_Colour, Weight_Pounds, SAG_DATE)
    Values ('a002', '1975-02-18 00:00:00', 'Blonde' , 'Brown' , '275', '1998-09-23 00:00:00');

INSERT INTO Actors(AID, DOB, Hair_Colour, Eye_Colour, Weight_Pounds, SAG_DATE)
    Values ('a003', '1992-11-02 00:00:00', 'Black' , 'Hazel' , '115', '2010-02-13 00:00:00');
```

--Directors

```
INSERT INTO Directors(DID,Film_School_Attended, DG_DATE)
    Values ('d001','Full Sail University', '1998-12-23 00:00:00');

INSERT INTO Directors(DID,Film_School_Attended, DG_DATE)
    Values ('d002','Michigan University', '1998-10-30 00:00:00');

INSERT INTO Directors(DID,Film_School_Attended, DG_DATE)
    Values ('d003','Stanford Univeristy', '2010-12-11 00:00:00');
```

--Persons

```
INSERT INTO Persons(PID,FName,LName,Home_Address)
    Values ('p001','Steven','Speilberg', '32 TotallyReal Lane');

INSERT INTO Persons (PID,FName,LName,Home_Address)
```

Values ('p002','Sean','Connery', 'Edinburgh, Scotland');

INSERT INTO Persons (PID,FName,LName,Home_Address)

Values ('p003','Harrison','Ford', 'Jackson Hole, Wyoming');

--Movies

INSERT INTO Movies(MID,Title,Release_Date,Domestic_BoxOfficeSales, Foreign_BoxOfficeSales, DVD_BluRay_Sales)

Values ('m001','Indiana Jones and the Last Crusade','1989-05-24 00:00:00', '2000000', '10000000', '30000000');

INSERT INTO Movies(MID,Title,Release_Date,Domestic_BoxOfficeSales, Foreign_BoxOfficeSales, DVD_BluRay_Sales)

Values ('m002','Dr. No','1963-05-08 00:00:00', '9000000', '70000000', '40080000');

INSERT INTO Movies(MID,Title,Release_Date,Domestic_BoxOfficeSales, Foreign_BoxOfficeSales, DVD_BluRay_Sales)

Values ('m003','The League of Extraordinary Gentlemen','2003-07-11 00:00:00', '20', '7000000', '3');

--Actors_Movies

INSERT INTO Actors_Movies(AID,PID, MID)

Values ('a002','p002','m001');

INSERT INTO Actors_Movies(AID, PID, MID)

VALUES ('a003','p003', 'm001');

--Directors_Movies

```
INSERT INTO Directors_Movies(DID, PID, MID)
VALUES ('d001','p001', 'm001');
```

4. Functional Dependencies

Persons : PID -> FName, LName, Home_Address

Directors : DID -> Film_School_Attended, _DG_Date

Actors : AID -> DOB, Eye_Color, Height_Inches, SAG_DATE

Movies : MID -> Title, Release_Date

5. Query for Connery

```
SELECT dir.DID, dir.Film_School_Attended, p2.FName, p2.LName, p2.PID
FROM Directors dir, Persons p1, Persons p2, Actors_Movies am, Directors_Movies dm, Movies m, Actors a
WHERE m.MID = 'm001'
and p1.FName = 'Sean'
and dm.DID = dir.DID
and a.AID = am.AID
and am.PID = p1.PID
and dm.PID = p2.PID
and am.MID = m.MID
and dm.MID = m.MID
and dm.MID = m.MID
```