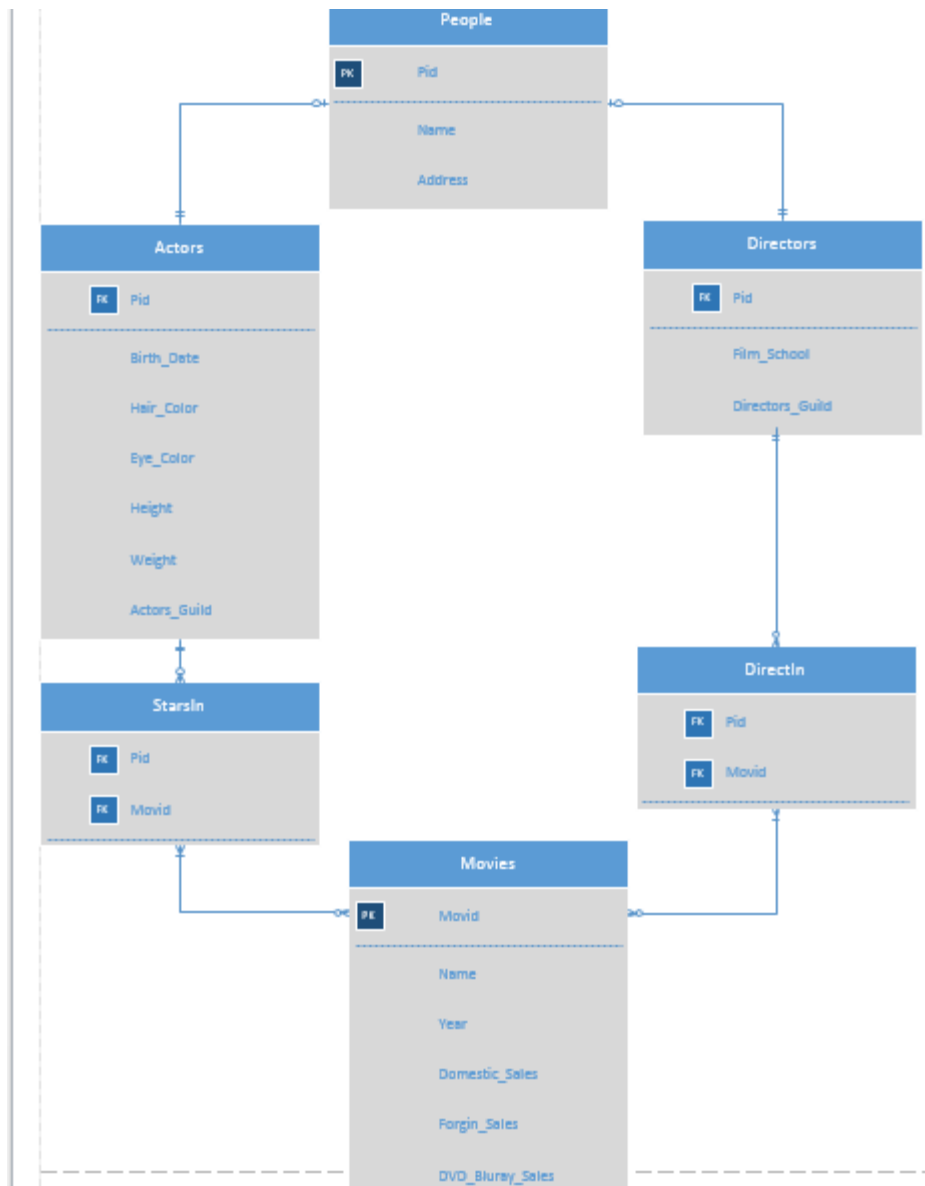


## 1. ER Diagram:



## 2. -- CREATE TABLES --

-- People --

Drop Table People;

Create Table People (

Pid	int	not null	primary key,
-----	-----	----------	--------------

Name	varchar(25)	not null,
------	-------------	-----------

Address	varchar(50)
---------	-------------

);

-- Actors --

Drop Table Actors;

Create Table Actors (

Pid	int	not null references People(Pid),
-----	-----	----------------------------------

Birth_Date	Date,
------------	-------

Hair_Color	varchar(25),
------------	--------------

Eye_Color	varchar(25),
-----------	--------------

Height	varchar(25),
--------	--------------

Eye_Color	varchar(25),
-----------	--------------

Actors_Guild	Date
--------------	------

);

-- Directors --

Drop Table Directors

Create Table Directors (

Pid int not null references People(Pid),

Film\_School varchar(50),

Directors\_Guild Date

);

-- Movies --

Drop Table Movies;

Create Table Movies (

Movid int not null primary key,

Movie\_Name varchar(50) not null,

Year\_Released int not null,

Domestic\_Box\_Office\_Sales int,

Foreign\_Box\_Office\_Sales int,

DVD\_Bluray\_Sales int

);

-- StarsIn --

Drop Table StarsIn;

Create Table StarsIn (

    Pid                int                not null references People(Pid),

    Movid             int                not null references Movies(Movid)

);

-- DirectorsIn --

Drop Table DirectorsIn;

Create Table DirectorsIn (

    Pid                int                not null references People(Pid),

    Movid             int                not null references Movies(Movid)

);

3.          --INSERT DATA --

-- People --

INSERT INTO People( Pid, Name, Address )

VALUES( 1, 'Sean Connery', 'Edinburgh, Scotland, UK' );

INSERT INTO People( Pid, Name, Address )

VALUES( 2, 'Roger Moore', 'Stockwell, London, England, UK' );

INSERT INTO People( Pid, Name, Address )

VALUES( 3, 'Timothy Dalton', 'Colwyn Bay, Wales, UK' );

INSERT INTO People( Pid, Name, Address )

```
VALUES( 4, 'Guy Hamilton', 'Paris, France' );
```

```
INSERT INTO People( Pid, Name, Address )
```

```
VALUES( 5, 'John Glen', 'Sunbury-on-Thames, England, UK' );
```

```
INSERT INTO People( Pid, Name, Address )
```

```
VALUES( 6, 'Irvin Kershner', 'Los Angeles California, USA' );
```

```
INSERT INTO People( Pid, Name, Address )
```

```
VALUES( 7, 'Patrick Read Johnson', 'Wadsworth, Illinois, USA' );
```

```
-- Actors --
```

```
INSERT INTO Actors( Pid, Birth_Date, Hair_Color, Eye_Color, Height, Weight, Actors_Guild )
```

```
VALUES( 1, '1930-08-25', 'Black', 'Brown', '6`2', '150', '2010-10-28' );
```

```
INSERT INTO Actors( Pid, Birth_Date, Hair_Color, Eye_Color, Height, Weight, Actors_Guild )
```

```
VALUES( 2, '1927-10-04', 'Brown', 'Brown', '6`1', '165', '2009-01-25' );
```

```
INSERT INTO Actors( Pid, Birth_Date, Hair_Color, Eye_Color, Height, Weight, Actors_Guild )
```

```
VALUES( 3, '1944-05-21', 'Black', 'Green', '6`2', null, '1991-11-28' );
```

```
INSERT INTO Actors( Pid, Birth_Date, Hair_Color, Eye_Color, Height, Weight, Actors_Guild )
```

```
VALUES( 6, '1923-04-29', 'Grey', 'Brown', '6`2', null, '1981-09-14' );
```

```
-- Directors --
```

```
INSERT INTO Directors( Pid, Film_School, Directors_Guild )
```

```
VALUES( 4, null, '1952-09-10' );
```

```
INSERT INTO Directors( Pid, Film_School, Directors_Guild )
```

```
VALUES( 5, null, null );
```

```
INSERT INTO Directors( Pid, Film_School, Directors_Guild )
```

```
VALUES( 6, 'University of Southern California', '1963-04-12' );
```

```
INSERT INTO Directors( Pid, Film_School, Directors_Guild )
```

```
VALUES( 7, null, null );
```

```
-- Movies --
```

```
INSERT INTO Movies( Movid, Movie_Name, Year_Released, Domestic_Box_Office_Sales,  
Foreign_Box_Office_Sales, DVD_Bluray_Sales )
```

```
VALUES( 1, 'Never Say Never Again', '1983', 55000000, 104600000, 68750000 );
```

```
INSERT INTO Movies( Movid, Movie_Name, Year_Released, Domestic_Box_Office_Sales,  
Foreign_Box_Office_Sales, DVD_Bluray_Sales )
```

```
VALUES( 2, 'Diamonds are forever', '1971', 43800000, 72200000, 52200000 );
```

```
INSERT INTO Movies( Movid, Movie_Name, Year_Released, Domestic_Box_Office_Sales,  
Foreign_Box_Office_Sales, DVD_Bluray_Sales )
```

```
VALUES( 3, 'Goldfinger', '1964', 51081062, 73800000, 56205000 );
```

```
INSERT INTO Movies( Movid, Movie_Name, Year_Released, Domestic_Box_Office_Sales,  
Foreign_Box_Office_Sales, DVD_Bluray_Sales )
```

```
VALUES( 4, 'The Man with the Golden Gun', '1974', 20972000, 76600000, 43920000 );
```

```
INSERT INTO Movies( Movid, Movie_Name, Year_Released, Domestic_Box_Office_Sales,  
Foreign_Box_Office_Sales, DVD_Bluray_Sales )
```

```
VALUES( 5, 'Live and Let Die', '1973', 35377836, 91000000, 56880000 );
```

```
INSERT INTO Movies( Movid, Movie_Name, Year_Released, Domestic_Box_Office_Sales,  
Foreign_Box_Office_Sales, DVD_Bluray_Sales )
```

```
VALUES( 6, 'Licence to Kill', '1989', 34667015, 121500000, 16200000 );
```

```
INSERT INTO Movies( Movid, Movie_Name, Year_Released, Domestic_Box_Office_Sales,  
Foreign_Box_Office_Sales, DVD_Bluray_Sales )
```

```
VALUES( 7, 'Angus', '1995', 4821759, null, null );
```

-- StarsIn --

INSERT INTO StarsIn( Pid, Movid )

VALUES( 1, 1 );

INSERT INTO StarsIn( Pid, Movid )

VALUES( 1, 2 );

INSERT INTO StarsIn( Pid, Movid )

VALUES( 1, 3 );

INSERT INTO StarsIn( Pid, Movid )

VALUES( 2, 4 );

INSERT INTO StarsIn( Pid, Movid )

VALUES( 2, 5 );

INSERT INTO StarsIn( Pid, Movid )

VALUES( 3, 6 );

INSERT INTO StarsIn( Pid, Movid )

VALUES( 6, 7 );

```

--DirectorsIn --

INSERT INTO DirectorsIn( Pid, Movid )

VALUES( 6, 1 );

INSERT INTO DirectorsIn( Pid, Movid )

VALUES( 4, 2 );

INSERT INTO DirectorsIn( Pid, Movid )

VALUES( 4, 3 );

INSERT INTO DirectorsIn( Pid, Movid )

VALUES( 4, 4 );

INSERT INTO DirectorsIn( Pid, Movid )

VALUES( 4, 5 );

INSERT INTO DirectorsIn( Pid, Movid )

VALUES( 5, 6 );

INSERT INTO DirectorsIn( Pid, Movid )

VALUES( 7, 7 );

```

#### 4. Functional Dependencies

People → Actors → StarsIn → Movies

People → Directors → DirectorsIn → Movies

```

5. -- SQL query --
select name
from People
where Pid in (
    select Pid
    from DirectorsIn
    where Movid in (
        select Movid
        from StarsIn
        where Pid in (

```



```
select Pid
from People
where name = 'Sean Connery'
      )
)
);
```