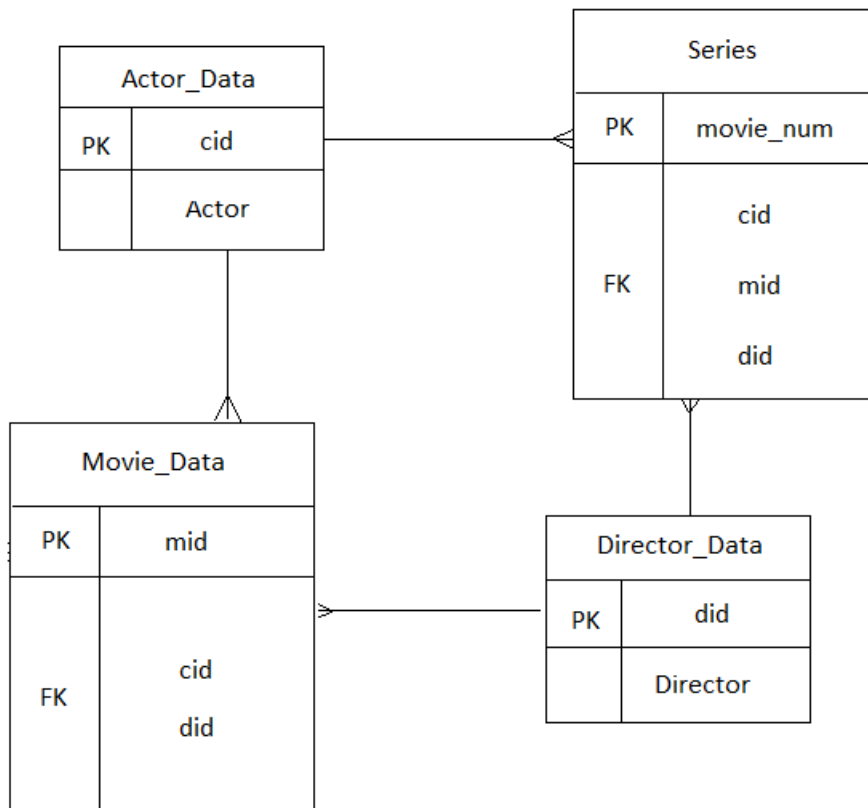


----Kevin Bruce----

-----Lab 8-----

1. Entity Relationship Diagram



2. SQL create statements

```
CREATE TABLE Actor_Data
```

```
(
```

```
aid                                char(3) not null,
```

```
name                              TEXT,
```

```

address                                TEXT,
birth_date                            char(25),
hair_color                            TEXT,
eye_color                             TEXT,
height_in_inches                       Decimal,
weight                                INT,
screen_actors_guild_anniversary_date  char (24),
Primary Key (aid)
);

```

```

CREATE TABLE Movie_Data
(
mid                                    char(3) not null,
name                                  TEXT,
year_released                         char (24),
domestic_box_office_sales             INT,
foreign_box_offices_sales             INT,
DVD_Bluray_sales                     INT,
Primary Key (mid)
);

```

```

CREATE TABLE Director_Data
(
did                                    char(3) not null,
name                                  TEXT,
address                               TEXT,
film_school_attended                 TEXT,
directors_guild_anniversary_date     char (24),
Primary Key (did)
);

```

```
);
```

```
CREATE TABLE series
```

```
(
```

```
movie_num          integer not null,
```

```
aid                char(4) not null references Actor_Data(aid),
```

```
mid                char(3) not null references Movie_Data(mid),
```

```
did                char(3) not null references Director_Data(did),
```

```
budget             integer,
```

```
Primary Key (movie_num)
```

```
);
```

3. SQL insert statements

```
-- Actor_Data --
```

```
INSERT INTO Actor_Data (aid, name, address, Birth_date, hair_color, eye_color, height_in_inches,  
weight, screen_actors_guild_anniversary_date)
```

```
VALUES ('a01', 'Sean Connery', '2000 Avenue of the Stars Los Angeles, CA', 'August 25, 1930 ', 'White',  
'Brown', 74, 215, 'January 10, 2002' );
```

```
INSERT INTO Actor_Data (aid, name, address, Birth_date, hair_color, eye_color, height_in_inches,  
weight, screen_actors_guild_anniversary_date)
```

```
VALUES ('a02', 'Joseph Wiseman', '730 5th Avenue, NY', 'May 15, 1918 ', 'Black', 'Brown', 72, 200,  
'January 10, 2002' );
```

```
INSERT INTO Actor_Data (aid, name, address, Birth_date, hair_color, eye_color, height_in_inches,  
weight, screen_actors_guild_anniversary_date)
```

```
VALUES ('a03', 'Ursula Andress', '3072 OstermundigenSwitzerland', 'March 19, 1936 ', 'Blond', 'Brown',  
67, 175, 'January 10, 2002' );
```

-- Movie_Data --

INSERT INTO Movie_Data (mid, name, year_released, domestic_box_office_sales,
foreign_box_offices_sales, DVD_Bluray_sales)

VALUES ('m01','Dr. No', '1962', 16067035, 43500000, 5734108);

INSERT INTO Movie_Data (mid, name, year_released, domestic_box_office_sales,
foreign_box_offices_sales, DVD_Bluray_sales)

VALUES ('m02','From Russia with Love', '1963', 24800000, 54100000, 4211956);

INSERT INTO Movie_Data (mid, name, year_released, domestic_box_office_sales,
foreign_box_offices_sales, DVD_Bluray_sales)

VALUES ('m03','Thunderball', '1965', 63600000, 77600000, 2032114);

-- Director_Data --

INSERT INTO Director_Data (did, name, address, film_school_attended,
directors_guild_anniversary_date)

VALUES ('d01','Terence Young', 'Shanghai, China', 'University of Cambridge', 'April 24, 1980');

-- Series --

INSERT INTO Series(movie_num, aid, mid, did, budget)

VALUES (1,'a01', 'm02', 'd01', 1000000);

INSERT INTO Series(movie_num, aid, mid, did, budget)

VALUES (2,'a03', 'm01', 'd01', 3000000);

INSERT INTO Series(movie_num, aid, mid, did, budget)

VALUES (3,'a02', 'm01', 'd01', 2500000);

4. **Functional dependencies for each table**

5. **SQL query**

```
select name
from Director_Data
where did not in (select Director_Data.did
                  from Series
                  join Director_Data on
                  Director_Data.did=Series.aid);
```