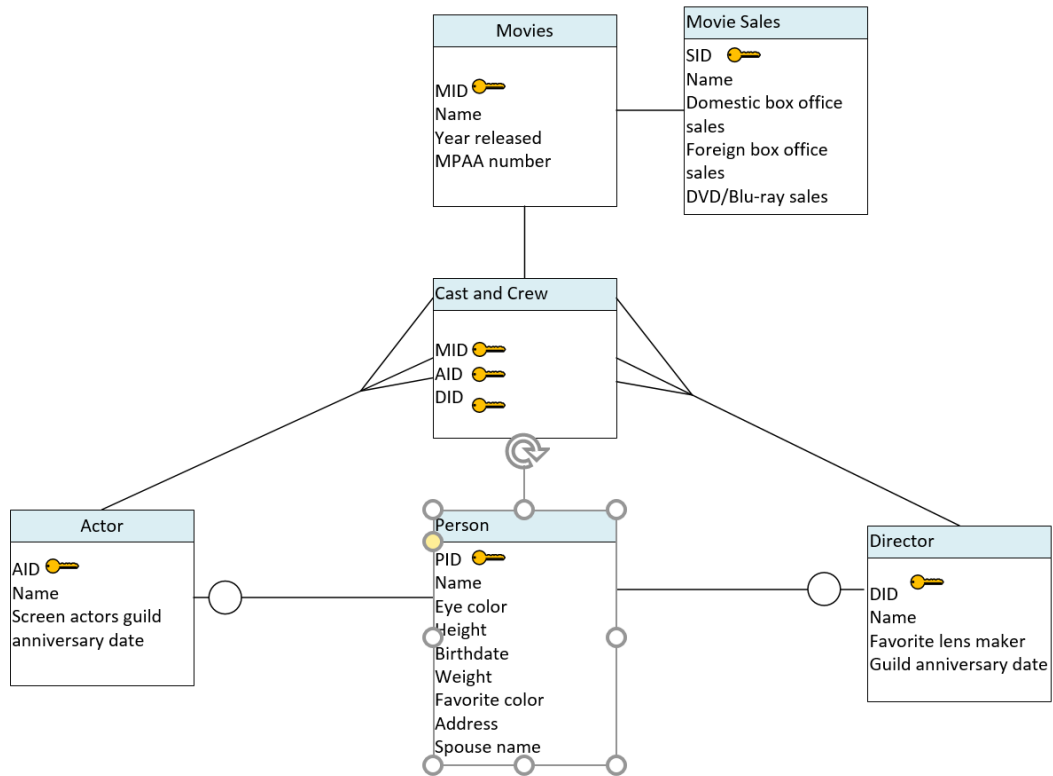


Vallie Joseph

Database Management

Pablo Rivas

Normalization Lab 7



1ER Diagram

2. SQL Create Statements:

```
CREATE TABLE IF NOT EXISTS actors(
```

```
aid varchar(100) primary,
```

```
name char(100),
```

```
screen_actor_guild varchar(100),
```

```
anni_date date,
```

```
)
```

```
CREATE TABLE IF NOT EXISTS directors(
```

```
did varchar(100) primary,
```

```
name char(100),
```

```
favorite_lens_maker varchar(100),
```

```
anni_date date,
```

```
)
```

```
CREATE TABLE IF NOT EXISTS person(
```

```
pid varchar(100) primary,
```

```
name char(100),
```

```
eye_color varchar(20),
```

```
height float,
```

```
favorite_color,
```

```
address varchar(100),
```

```
spouse_name varchar(100),
```

```
favorite_lens_maker varchar(100),
```

```
anni_date date,
```

```
)
```

```
CREATE TABLE IF NOT EXISTS castcrew(
```

```
mid PRIMARY,
```

```
aid PRIMARY,
```

```
did PRIMARY,
```

```
)
```

```
CREATE TABLE IF NOT EXISTS movie(
```

```
mid varchar(100) primary,
```

```
name varchar(100),
```

```
year_released date,
```

```
mpaa_number numeric
```

```
)
```

```
CREATE TABLE IF NOT EXISTS movie_sales(
```

```
sid varchar(100) primary,
```

```
name varchar(100),
```

```
domestic_sales float(12,2),
```

```
foreign_sales float(12,2) ,
```

```
dvd_bluray_sales float(12,2)
```

```
)
```

3. Functional Dependencies

Person

(pid) → name, eye ccolor, height, birthdate, weight, favorite color, address, spouse name

Actors

(aid) → aid, spouse name, screen actors anniversary date

Movie

(mid) → name, year released, mpaa number

Movie Sales

(sid) → name, domestic box office sales, foreign box office sales, dvd blu-ray sales

Director

(did) → name, movie, favorite lens maker, guild anniversary date

4. Query to show all directors with whom Keanu Reeves

```
SELECT AID
FROM directors
WHERE MID IN(
    SELECT MID
    FROM castcrew
    WHERE aid IN(
        SELECT aid
        FROM actors
        WHERE Name = "Sean Connery"
    )
);
```