Q2

We're going to design a movies database. Each movie has a title and year, one (and only one) director, and some number of actors. Actors can star in multiple movies. Directors can direct multiple movies. Some movies have the same title such as Ocean's Eleven (the 2001 version directed by Steven Sodenbergh had George Clooney, Brad Pitt, Matt Damon, Julia Roberts, and many others, but the 1960 version was directed by Lewis Milestone and starred Frank Sinatra, Dean Martin and Sammy Davis Jr).

The schema should be normalized enough to avoid duplicating strings too much, and also to be able to efficiently answer questions like these two:

Who acted in Fight Club (1999)?

What are the 10 most recent movies that George Clooney starred in?

Mention all your tables (with its attributes), relationships between tables using Draw.io editor

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Example:

Tables:

1. Table A

int attirbute_a1

string attirbute_a2

2. Table B

int attirbute_b1

string attirbute_b2

Relationships:

Table A belongs to Table B et

2) Database Assignment 2

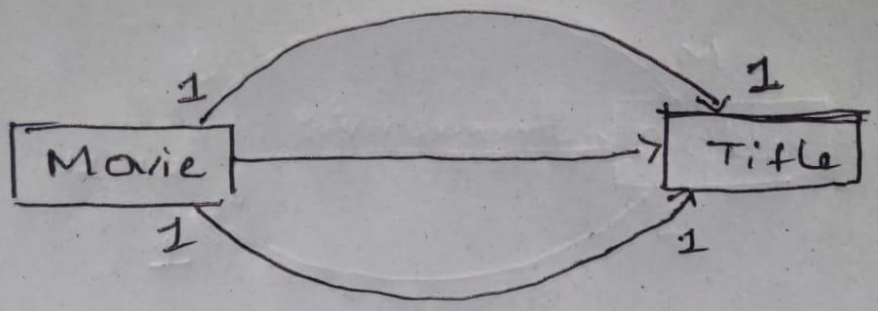
Movies
movie_id
year
title_id
director_id

Titles
title_id
title_name

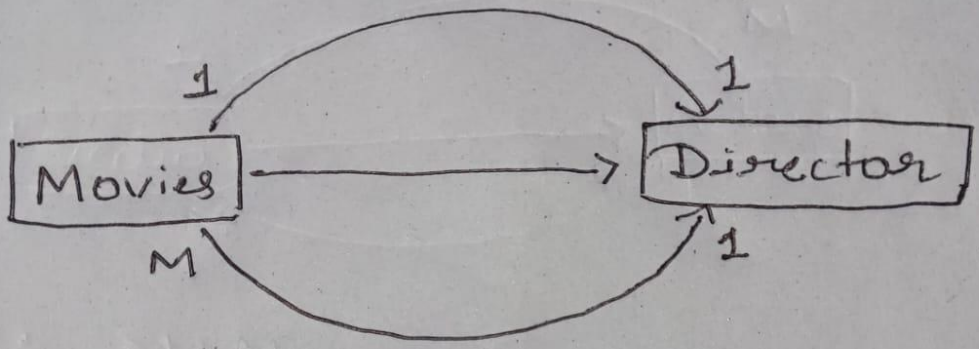
Directors
director_id
director_name

Actors
actor_id
actor_name

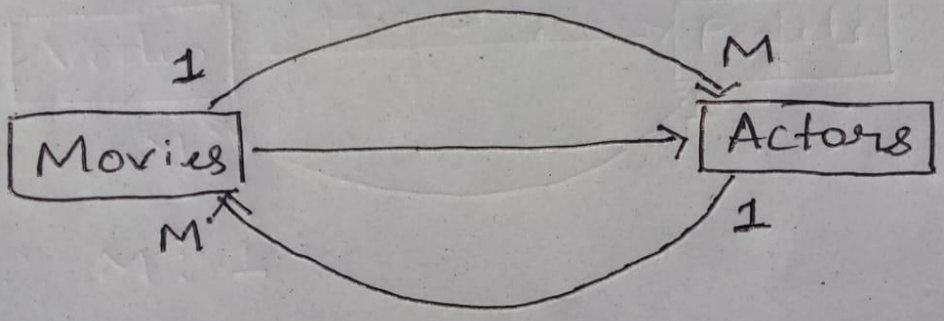
MovieActors
movie_id
actor_id



∴ 1 : 1



∴ M : 1



∴ M : M