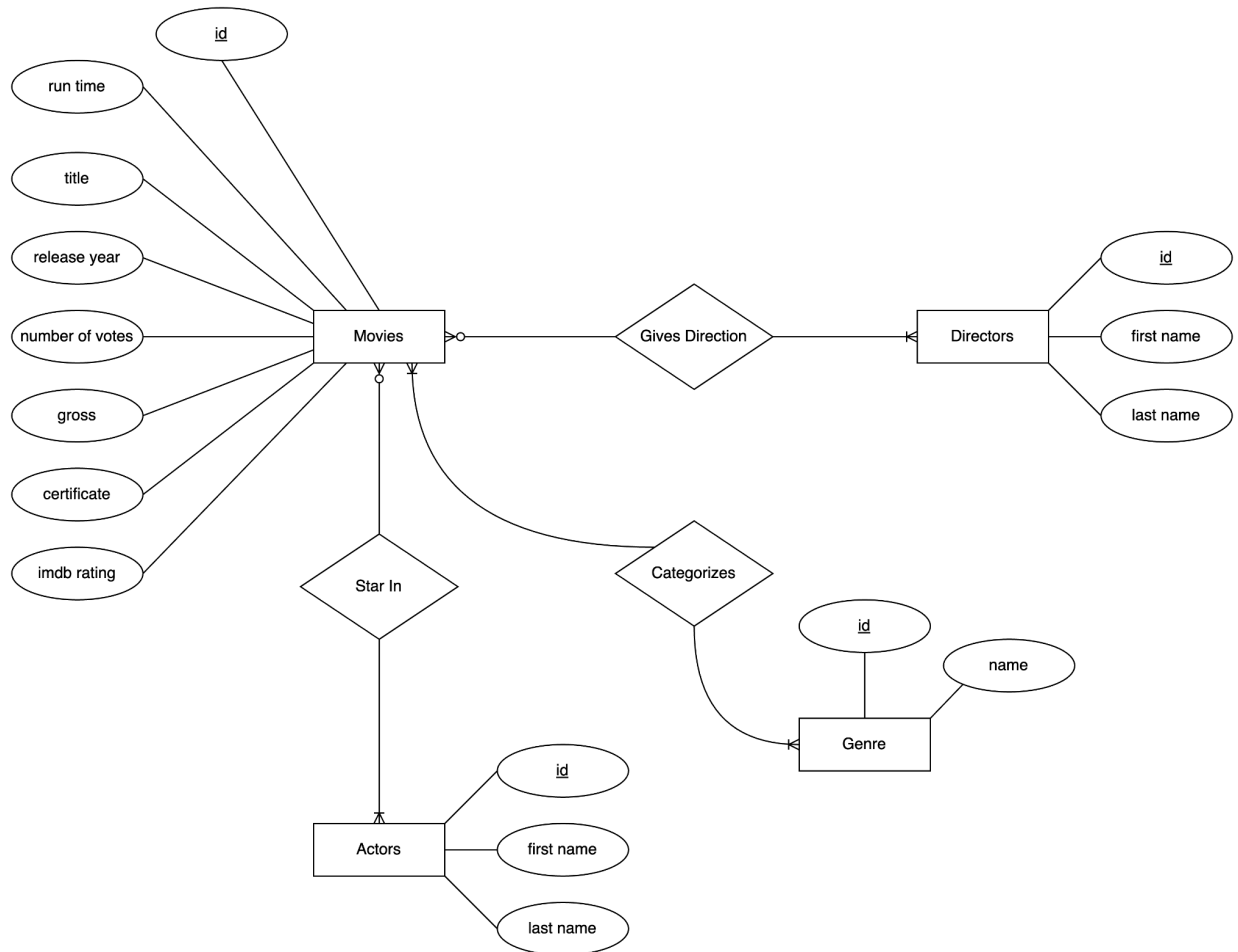


CS 586 Project ER & Relational Schema

1. ER Diagram



2. Relational Schema

The database consists

- Movies (id, title, release_year, certificate, runtime, imdb_rating, number_of_votes, gross)
- Actors (id, first_name, last_name)
- Directors (id, first_name, last_name)
- Genres (id, name)
- Movie_Director_Rel (movie_id, director_id)
 - movie_id is a foreign key referencing Movies(id)
 - director_id is a foreign key referencing Directors(id)
- Movie_Actor_Rel (movie_id, actor_id)
 - movie_id is a foreign key referencing Movies(id)
 - actor_id is a foreign key referencing Actors(id)
- Movie_Genre_Rel (movie_id, genre_id)

- movie_id is a foreign key referencing Movies(id)
- genre_id is a foreign key referencing Genres(id)

3. Table Creation

```
CREATE TABLE actors (
  id INT PRIMARY KEY,
  first_name VARCHAR(100),
  last_name VARCHAR(100)
);
```

<input type="checkbox"/> Modify	id	first_name	last_name
<input type="checkbox"/> edit	1	Tim	Robbins
<input type="checkbox"/> edit	2	Marlon	Brando
<input type="checkbox"/> edit	3	Christian	Bale
<input type="checkbox"/> edit	4	Al	Pacino
<input type="checkbox"/> edit	5	Henry	Fonda

```
CREATE TABLE directors (
  id INT PRIMARY KEY,
  first_name VARCHAR(100),
  last_name VARCHAR(100)
);
```

<input type="checkbox"/> Modify	id	first_name	last_name
<input type="checkbox"/> edit	1	Frank	Darabont
<input type="checkbox"/> edit	2	Francis	Ford Coppola
<input type="checkbox"/> edit	3	Christopher	Nolan
<input type="checkbox"/> edit	4	Sidney	Lumet
<input type="checkbox"/> edit	5	Peter	Jackson

```
CREATE TABLE Genres (
  id INT PRIMARY KEY,
  name VARCHAR(100) NOT NULL
);
```

<input type="checkbox"/> Modify	id	name
<input type="checkbox"/> edit	1	Drama
<input type="checkbox"/> edit	2	Crime
<input type="checkbox"/> edit	3	Action
<input type="checkbox"/> edit	4	Biography
<input type="checkbox"/> edit	5	Western