

## **CSC 370 – Database Systems**

Dr. Sean Chester

### **Movie Rating System**

Project Sprint: 1

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In this database schema, we have following tables that represent different entities and their relationships in a system for managing movies or shows, users, casts, genres, and their associations:

- **Users:**

The Users table stores information about users who interact with the system.

Attributes include user\_id (primary key), username, password, email, full\_name, is\_admin (indicating if the user is an administrator), and created\_at (timestamp of user creation).

- **Casts:**

The Casts table represents actors or cast members involved in movies or episodes.

Attributes include cast\_id (primary key), first\_name, and last\_name.

- **Genres:**

The Genres table lists different genres that movies or episodes can belong to.

Attributes include genre\_id (primary key) and genre\_name.

- **Movie\_Episodes:**

The Movie\_Episodes table stores information about individual episodes of movies or series.

Attributes include movie\_episode\_id (primary key), episode\_number (sequential number of the episode within the series), title, release\_date, synopsis, and has\_episodes (indicating if the movie has multiple episodes).

- **Rates (Relationship):**

The Rates table establishes a relationship between users and movie episodes, where users rate and review movies or episodes.

Attributes include user\_id, movie\_episode\_id, episode\_number, rating (numeric scale for rating), review (optional review text), and show\_username (boolean indicating if the username should be shown with the rating).

- **Stars\_In (Relationship):**

The Stars\_In table establishes a relationship between casts and movie episodes, where casts star in episodes.

Attributes include cast\_id, movie\_episode\_id, and episode\_number.

- **Assign\_Genres\_to\_Movie\_Episodes (Relationship):**

The Assign\_Genres\_to\_Movie\_Episodes table establishes a relationship between genres and movie episodes, assigning genres to episodes.

Attributes include genre\_id, movie\_episode\_id, and episode\_number.

**Simple Flow:**

Users interact with the system, rate episodes, and potentially view other users' ratings.

Casts participate in series with episodes or movies.

Genres classify movies and episodes based on their content.

Movie\_Episodes represent individual parts of movies or series.

Rates records user ratings and reviews for episodes, with options for displaying the user's username.

Stars\_In indicates which casts are involved in which episodes.

Assign\_Genres\_to\_Movie\_Episodes associates genres with specific series episodes or movies.

Entity-Relationship Diagram (ERD):

