GROUP 13
TITLE: MOVIE DATABASE MANAGEMENT SYSTEM.
GROUP MEMBERS:
1. Aishwarya Arun Dhandore
2. Nishita Matlani
3. Sangram Anil Shinde
4. Suchita Arvind Dabir
5. Venkata Durga Hemanth Narsupalli

DATABASE PURPOSE:

To address the need for real-time and accurate information in the rapidly evolving entertainment industry, our challenge lies in ensuring data quality and currency. With the constant influx of new releases and updates, maintaining precision is a formidable task. Additionally, we face the challenge of presenting this wealth of information in a user-friendly manner, ensuring that users can easily navigate and comprehend the data. Striking the right balance between providing comprehensive details and ensuring simplicity in presentation is crucial to our mission.

BUSINESS PROBLEM ADDRESSED:

1. Assist Your Memory: Our platform helps you remember movies, shows, or people you're struggling to recall. It's like your own digital memory aid for all things entertainment.

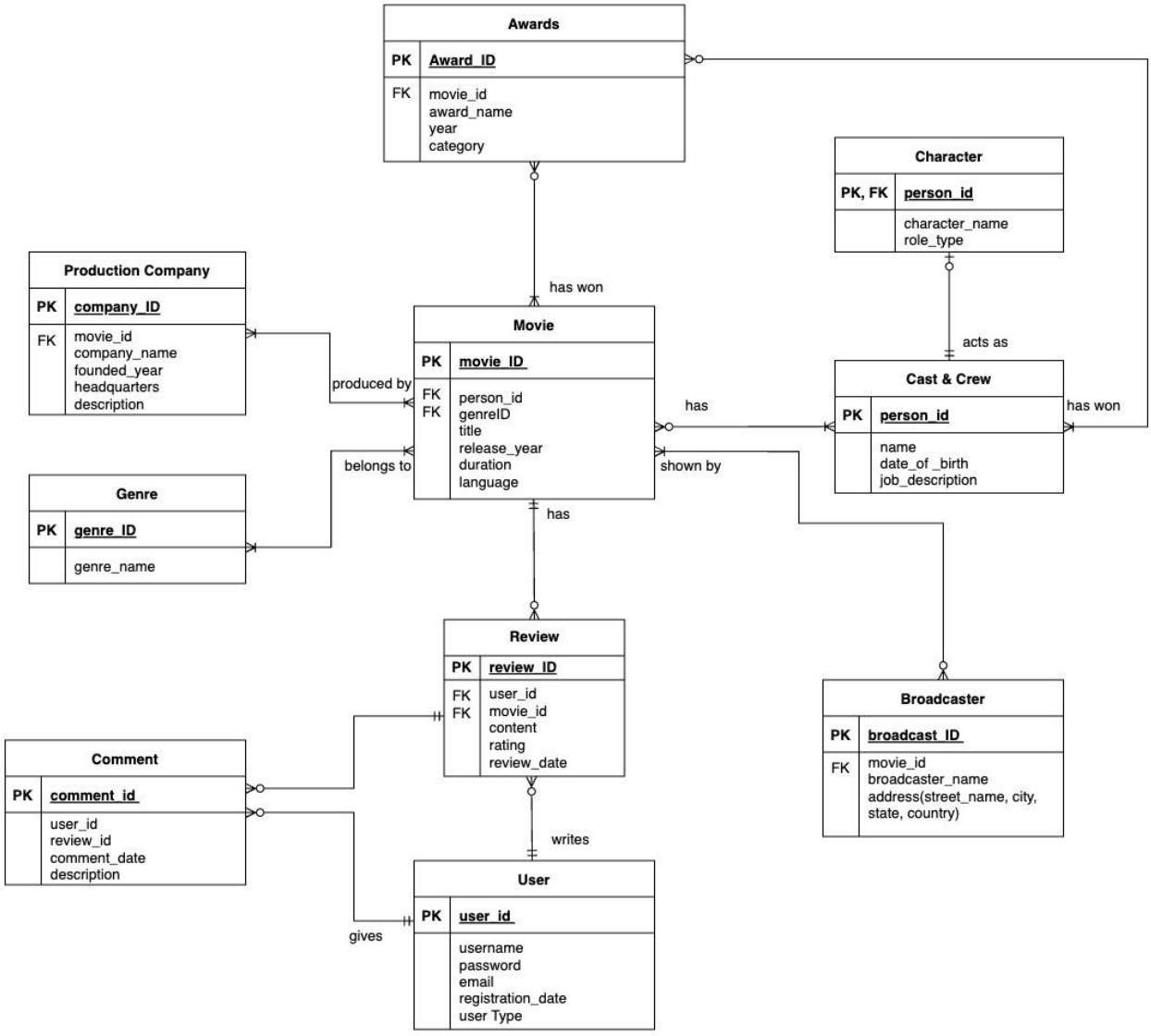
2. Pick Your Next Watch: We offer suggestions to help you decide what movie or show to watch next. It's like having a helpful friend who knows your taste.

3. Connect with Fellow Fans: You can connect with a big group of fellow fans. Share your thoughts and ideas about all things entertainment, just like chatting with friends who love the same stuff. allowing user-generated content and maintaining editorial control to ensure the quality and accuracy of information while fostering a sense of community and engagement.

4. Making Choices Easier: For those moments when you're unsure about what to watch and where to find it, we've got you covered. We provide useful information like showtimes, trailers, reviews, and more. It's your one-stop decision-making hub.

5. Never Forget What You Want to Watch: We have a special feature called the Universal Watchlist. It's like your personal planner for entertainment. You can keep a list of all the movies and shows you want to watch in the future, so you never miss out on the good stuff.

ER DIAGRAM:


Awards
PK Award_ID
FK movie_id
award_name
year
category
Character
PK, FK person_id
character_name
role_type
Production Company
PK company_ID
FK movie_id
company_name
founded_year
headquarters
description
has won
Movie
PK movie_ID
FK person_id
FK genreID
title
release_year
duration
language
acts as
Cast & Crew
PK person_id
name
date_of _birth
job_description
has won
produced by
has
belongs to
shown by
Genre
PK genre_ID
genre_name
has
Review
PK review_ID
FK user_id
FK movie_id
content
rating
review_date
Broadcaster
PK broadcast_ID
FK movie_id
broadcaster_name
address(street_name, city, state, country)
Comment
PK comment_id
user_id
review_id
comment_date
description
writes
User
PK user_id
username
password
email
registration_date
user Type
gives

BUSINESS RULES:

- Movie and Awards: Movies can win multiple awards (Mandatory Many), but not all movies win awards (Optional Many).
- Movie and Production Company: Movies are produced by multiple companies (Mandatory Many), and companies produce multiple movies (Mandatory Many).
- Movie and Genre: Movies can belong to multiple genres (Mandatory Many), and there are multiple movies in each genre (Mandatory Many).
- Movie and Review: Each movie must have at least one review (Mandatory One), but not all movies will have multiple reviews (Optional Many).
- Movie and Broadcaster: Movies may be broadcast on multiple platforms (Mandatory Many), but not all movies are available on all broadcasters (Optional Many).
- Movie and Cast and Crew: Movies may have many cast and crew members (Optional Many), and cast and crew members typically work on multiple movies (Mandatory Many).
- Character and Cast and Crew: Each character is portrayed by one cast or crew member (Optional One), and each cast or crew member typically portrays multiple characters (Mandatory One).
- Comment and Review: Each review must have at least one comment (Mandatory One), and not all comments are associated with reviews (Optional Many).
- Comment and User: Each comment is linked to one user (Optional One), and each user typically leaves multiple comments (Mandatory One).
- User and Review: Each user can write multiple reviews (Mandatory One), but not all users write reviews (Optional Many).

DESIGN DECISIONS:

ENTITY NAME	WHY IS ENTITY INCLUDED	RELATIONSHIP TO OTHER ENTITIES
MOVIE	Database stores a vast amount of information about movies, including details like titles, release dates, cast and crew information, genres, ratings, and more. By representing movies as an entity, the database can efficiently organize and store this data. Each movie is a discrete unit with its own set of attributes.	Entity is related to awards, production company, genre, review, broadcaster, cast and crew.

GENRE	A genre is a distinct Entity used to group movies based on common themes, styles, or characteristics. Each genre represents a unique category, and there can be multiple genres in the database.	Entity is related to Movie.
USER	Users interact with the database by searching for movies, rating them, writing reviews, and creating watchlists. Treating users as a separate entity allows the database to manage user authentication and authorization, ensuring that only authorized users can access and modify data. User accounts and profiles can be associated with their own credentials and permissions.	Entity is related to Review and Comment.
BROADCASTER	Broadcasting channels, such as television networks or streaming platforms, are distinct entities separate from movies. They have their own unique properties, including names, schedules, audiences, and content libraries.	Entity is related to Movie.
CAST & CREW	A movie can have multiple cast members, and an actor or actress can be part of many movies. This creates a complex many-to-many relationship that is best managed by a separate entity to maintain data integrity and enable flexible queries.	Entity is related to Movie, Awards and Character.
CHARACTER	Characters in movies or TV shows are distinct entities with their own unique attributes, such as character names, roles, and	Entity is related to Cast and Crew.

	characteristics. These attributes are separate from the information related to actors, movies, or TV shows.	
PRODUCTION COMPANY	Production houses are independent entities responsible for producing multiple movies. They have distinct attributes and characteristics, such as a name, location, founding date, and a list of movies they have produced.	Entity is related to Movie.
REVIEW	"Review" as a distinct entity in a movie or entertainment database is crucial for efficiently managing the one-to-many relationship between movies and reviews, ensuring data integrity, facilitating efficient querying, and accommodating user-generated content.	Entity is related to Movie, User and Comment.
COMMENT	Comments are interactions made by users regarding movies, shows, or other content. They are a specific type of data in the system that records user opinions, discussions, reviews, and feedback.	Entity is related to User and Review.
AWARDS	Awards in the entertainment industry come in various types, including Academy Awards, Golden Globes, Emmys, film festival awards, and more. Each award type may have different categories and criteria. By creating an "Awards" entity, the database can efficiently manage the diverse range of awards and their specific attributes.	Entity is related to Movie and Cast and crew.