caleb 2025-03-15

# **Database Design**

• Author: Caleb Bronn

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## **Schema**

#### **Users**

Column	Data Type	Purpose
user_id	6-digit number	Uniquely identifies the user
username	string	Username
email	string	user's email address
sign_up_date	date(YYYY-MM-DD)	Date the user signed up

#### **SQL Table Creation**

```
CREATE TABLE Users (
    user_id CHAR(6) NOT NULL PRIMARY KEY,
    username VARCHAR(30) NOT NULL,
    email VARCHAR(254) NOT NULL, -- 254 chars is the max length
for an email
    sign_up_date DATE DEFAULT TO_DATE(CURRENT_DATE, 'YYYY-MM-DD')
);
```

#### **Movies**

Column	Data Type	Purpose
movie_id	integer	Uniquely identifies the movie based on its TMDB ID
title	string	Movie title
overview	string	Description of the movie
lang	2-digit language code	Identifies the original language of the film
bg_path	relative path to the background image	Background image of the film
poster_path	relative path to the poster image	Poster image of the film
tmdb_score	Decimal score out of 10	Average score on TMDB

caleb 2025-03-15

Column	Data Type	Purpose
user_avg_score	Decimal score out of 10	Average score on this0 app
release_date	date(YYYY-MM-DD)	Date the film was released

#### **SQL Table Creation**

```
CREATE TABLE Movies (
   movie_id INT NOT NULL PRIMARY KEY, -- TMDB movie IDs are
integers
   title VARCHAR(213), -- longest movie title ever is 213
chars long
   overview VARCHAR(4000),
                              -- 4,000 chars is the max length for
varchar
                              -- 2-letter language code
   lang CHAR(2),
   bg_path VARCHAR(100), -- relative path for movie background
image
   poster_path VARCHAR(100), -- relative path for movie poster
image
  tmdb score NUMBER(4, 2) CHECK(score <= 10.00), -- scores are
stored as decimal percentages on TMDB
   user_avg_score NUMBER(4, 2) CHECK(score <= 10.00), -- average</pre>
score from users on this app
   release date DATE,
);
```

#### **Reviews**

Column	Data Type	Purpose
review_id	Uniquely identifies the review	
user_id	integer	Identifies the user who wrote the review
movie_id	integer	Identifies the movie the review is for
review_text	string	Review text submitted by user
your_score	Decimal score out of 10	Score submitted by user
written	date(YYYY-MM-DD)	Date the review was written
last_update	date(YYYY-MM-DD)	Date ther review was last updated

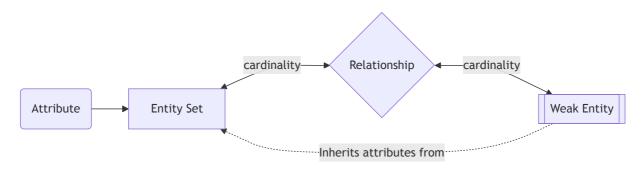
#### **SQL Table Creation**

caleb 2025-03-15

# **Entity-Relationship Diagram**

This diagram displays the attributes and relationships between each table in the database.

### Legend



#### **ERD**

