



# Movie Database with Discord Bot Controls


christofuy used `/list`

 **MovieBot** BOT Today at 5:53 PM

actor_id	name	age	hotness	date
1	Owen Wilson	54	99999999	For Sure
2	Larry the Cable Guy	60	8	Who Wouldn't??
3	Brad Pitt	59	7	He's Rich I guess
4	Jerry Seinfeld	68	2	He a Bee
5	Alden Ehrenreich	33	5	Eh

(edited)



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Christopher Youn, Marc Domingo, Connor Martindale, Gabriel Garcia, Michael Woodward

**Presentation + Demo (60 points):** The presentation (power point) will be between 10-15 minutes and occur during the last two weeks of class. Sign up information will be provided before the presentation.

The presentation will contain the following:

1. Problem/Issue you are trying to resolve
2. Your solution to the problem
3. Schema diagram
4. Demo

**Presentation + Demo (60 points):**

10-15 minutes per group

Make sure to introduce your project's concept and describe the application's features. Your project needs not be finished by the time you present but you must have something to demo.



# The Problem

- Do you ever find yourself sitting around, bored, with no idea what to do?
- Do you waste countless minutes of your precious free time trying to make decisions about how to spend it?
- Once you make the inevitable decision to watch a movie, do you spend hours, days, even years trying to find one to watch?
- Do you find yourself 2 hours later, still scrolling through the endless halls of Disney+ having yet to make a decision?
- Do you wish you had help getting through that horrible decision making phase?



**Making decisions is hard!**



# Discord Movie Bot™

- Stores and provides data on:
  - Movies
  - Actors
  - Composers
  - Studios
  - And More!!
- Simple, easy to use commands
- Capabilities:
  - Search for movies with a MASSIVE SELECTION of filters and options!
  - Add/Delete movies
  - Add user ratings to movies
  - View information on all of our 8 entities!
  - And most importantly...



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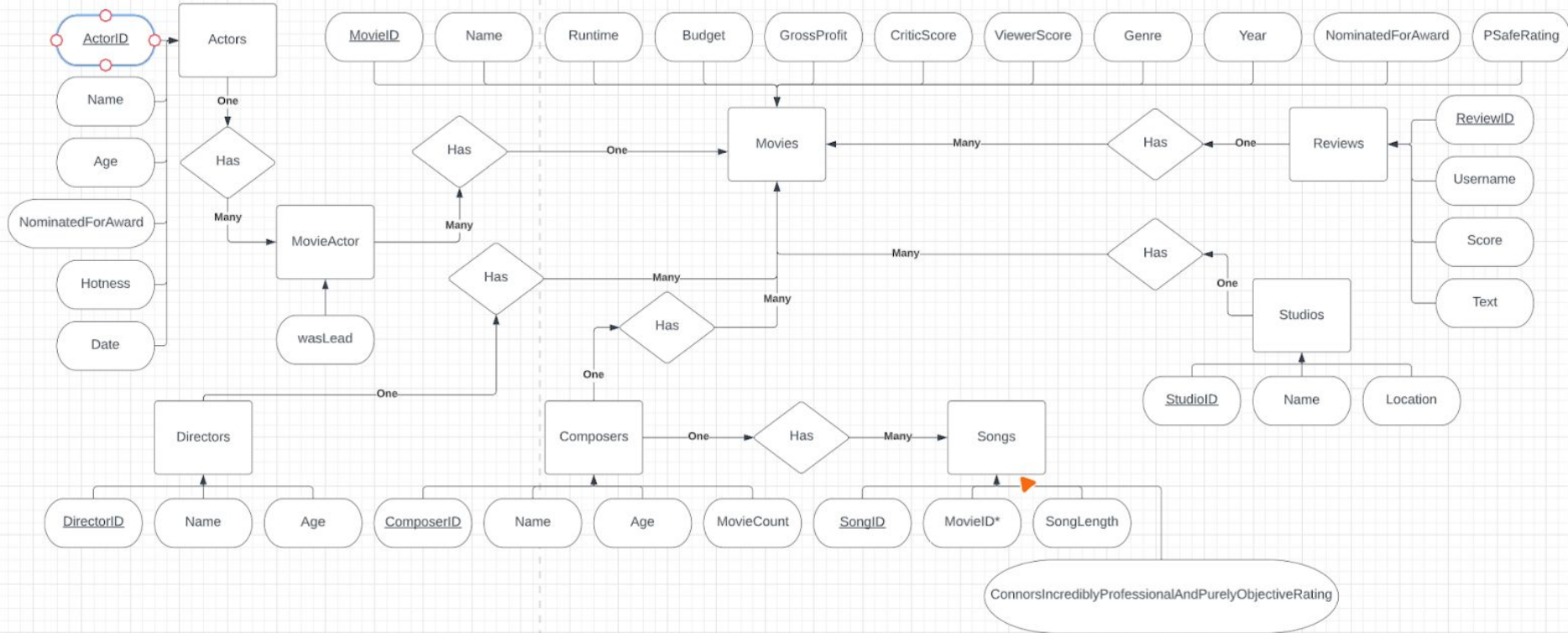
**Chooses A Movie, So You Don't Have To!**



# How it Works

- User Input via Discord:
  - Submit commands via the bot to the Python script
    - Use:
    - /command parameters
- Back-End MySQL Database Connection
  - Discord Bot™ connects to a MySQL database
  - Uses separate Python file to handle queries
  - Users' commands are converted to the appropriate input for the Python script
  - Python script returns information to the bot, which outputs to the user

# ER Diagram







# Schema

**Movies**(MovieID, Name, DirectorID\*, ComposerID\*, StudioID\*, Runtime, Budget, Gross Profit, CriticScore, ViewerScore, Genre, Year, NominatedForAward, PSafeRating)

**Actors**(ActorID, Name, Age, NominatedForAward, Hotness, Date)

**MovieActor**(ActorID\*, MovieID\*, wasLead).

**Directors**(DirectorID, Name, Age)

**Composers**(ComposerID, Name, Age, MovieCount)

**Songs**(SongID, ComposerID\*, MovieID\*, ConnorsIncrediblyProfessionalAndPurelyObjectiveRating, SongLength)

**Studios**(StudioID, Name, Location)

**Reviews**(ReviewID, Username, MovieID\*, Score, Text)



# The Plan

- Our goal is to create an army worthy of Mordor
- Our goal is to create a discord bot that interacts with a database
- The database has tables representing:
- The database is interacted with by text prompts to the discord bot

# SQL Back End Progress



- Creates each of the empty entities
  - Applies constraints where needed
- Imports pre-existing data to fill the table
  - Takes in one .csv file per entity, cleans it, and adds the data
- Created sample data for each entity
- Basic Command Line Interface
  - For testing purposes only
- Allows users to view contents of each entity
  - Receive one or five random entries, or all entries
- Returns Filtered Results
  - Sort by genre, budget, average critic score, actors' age, and more!
- Uses Inner Joins to display detailed information about a movie when searching for user-made reviews
- Created a log table for each entity to track changes within the database
- Recommends a random movie
  - Provides title, runtime, and genre
- Allows user to add a new movie to the database
  - Also prompts users to add a Director, Studio, and Composer for the movie if matching names are not found



**Demo Time!**

christofuy used `/get movie`



MovieBot BOT Today at 6:56 PM

### Inglourious Basterds

Director	Composer	Studio
Quentin Tarantino	Rupert Gregson-Williams	A Band Apart
Runtime	Budget	Gross Profit
153 min	70000000	321400000
Critic Score	Viewer Score	Genre
89	88	War/Comedy
Year	Nominated for Award	P Safe Rating
2009	Yes	NOTSAFE NOTSAFE NOTSAFE

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christofuy used `/list`



MovieBot BOT Today at 6:57 PM

actor_id	name	age	hotness	date
1	Owen Wilson	54	99999999	For Sure
2	Larry the Cable Guy	60	8	Who Wouldn't??
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## Next Steps - Front End

- create command
- update command
- recommend command
- command for generating reports
- add more to get command
  - display statistics
- add more to list command
  - add filter options

Connection made...  
Tables already exist. Proceeding as usual...  
Actors  
Data in table already exists. Proceeding as usual...  
Currently, you have the following options:

- 1 - Print out tables
- 2 - Filter tables
- 3 - Pick a random movie
- 0 - Quit

Enter choice number: █

Enter choice number: 2

Which table would you like to read filtered records from?

- 1 - Movies
- 2 - Actors
- 3 - Directors
- 4 - Composers
- 5 - Songs
- 6 - Reviews

Enter choice number: █

Enter choice number: 6  
How many entries would you like returned?  
Enter 1, 5, or 0 for all entries  
Enter choice number: 0  
You have the following options for filtering Reviews:  
1 - Find reviews by Movie Name  
2 - Find Movie reviews scoring > 7.5 on a scale of 0 to 11  
3 - Find Movie reviews scoring < 7.5 on a scale of 0 to 11

Enter choice number: █

Enter choice number: 2  
(`'Solo: A Star Wars Story', 'puttputt', 'Hey, I went to space once!'`)  
(`'Cars 2', 'puttputt', 'I bet Barry the Bee could save the Zoo, too!'`)  
(`'Bee Movie', 'condog7', 'Bzzz... Bzz!? Bzz bzz bzz bzzzzz bzzzzzzz bz bzbzzz bz!!'`)  
(`'Solo: A Star Wars Story', 'condog7', 'I never thought a slave robot revolution in Star Wars would be the highlight of a movie yet here we are'`)  
(`'Cars 2', 'condog7', 'Truly the greatest movie of our generation'`)

Currently, you have the following options:

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- 0 - Quit

Enter choice number: █



## Next Steps - Back End

- Expand range of user interaction to include:
  - Create new records
    - TODO: Actors, Songs, Reviews
  - Soft delete records
  - Update records
  - Generate reports
    - Uses groupby, subqueries, and 3+ table join
- Implement transactions to maintain referential integrity
- Incorporate logs with CRUD actions





**Thanks for Listening**

THAT WAS NOT VERY

HEALTHY PANTHER

OF YOU

