

CSCI2141 Assignment Part 1

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Street Fighter 6 Database

Introduction to the Dataset (/5)

What are the data?

I will be working with data pulled from the video game Street Fighter 6, Specifically character information, frame data and attributes from each character , matchup information as in how do some character fare against other statistically, statistical data pertaining to how popular each character is and each characters current tier placement based on the fighting game current opinion.

Why are these data interesting?

These datasets are interesting since we essentially have any single character's complete information in and out of the game, meaning we can make comparisons between everyone in the roster in terms of determining which are more popular, stronger, weaker, etc.. and we can determine why this is the case by examining the characters in game. For example, determining if extreme popularity is caused by some specific attribute seen in all the popular characters moveset, stats, frame data, etc..

What kinds of information can be generated from these data?

With this data we can make comparisons between all the characters, for example:

Which move from this character is fastest?

Which move from this character is only safe to use on hit?

Which move from this character is not safe when blocked?

Which character has the slowest move?

Which character has the most amount of safe moves on block?

Which characters have projectiles?

Which characters from the "rushdown" archetype have a 4 frame startup jab?

Which matchup is easiest for this character?

Are the highest tier characters the most popular?

Do the most popular characters have simpler movesets? (i.e less moves or less special moves)

Are the least popular characters considered "weak"? (in terms of tier placement) Do they tend to have a lot of moves?

Generation and Description of the Dataset (/10)

Description of the dataset.

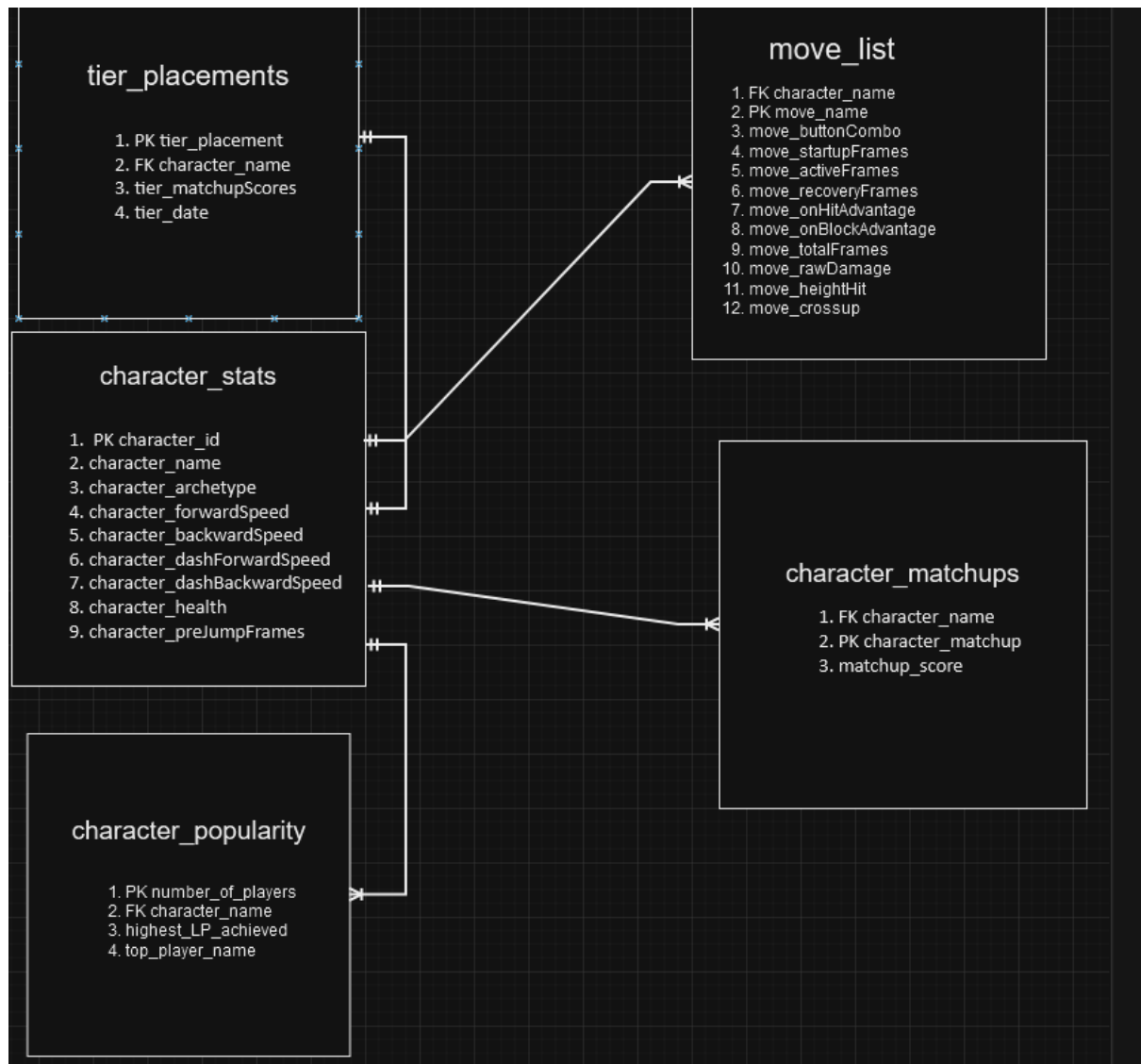
Inside of our database we contain the stats associated with each of the characters in the game as well as the dataset containing all the moves associated to each individual character and all the frame data of each move. We will also have in our database each character's current tier list placement, their matchup score against every other character in the roster and their current level of popularity worldwide. This dataset will be stored in 5 separate tables: They will be all associated via the character_name which will be the primary key of the character_stat table. The first table, character_stat, will contain 9 attributes and the second table, move_list, will contain 12 attributes. The third table, tierPlacement, will contain 5 attributes, the fourth table, character_matchups, will contain 3 attributes and the fifth table, character_popularity, will include 4 attributes.

The dataset was generated from: In game information, the website <https://ultimateframedata.com/sf6/>, the website <https://www.eventhubs.com/tiers/sf6/> and the website <https://www.streetfighter.com/6/buckler/ranking/league>.

- Table 1 (character_stats).
- Table 2 (move_list).
- Table 3(tier_placements)
- Table 4(character_matchups)
- _table 5(character_popularity)

Models (/5)

Conceptual Model



Internal Model

