



SQL PROJECT IRONHACK

HEROES & VILLAINS

ÉLIO VIEIRA & AKIM ROUMOU

PROJECT OVERVIEW

Our data source contains a list of over 700 heroes, villains and fictional characters with a variety of information and attributes, which I'll explore next.

Our project is divided into 3 hypotheses and opportunities.

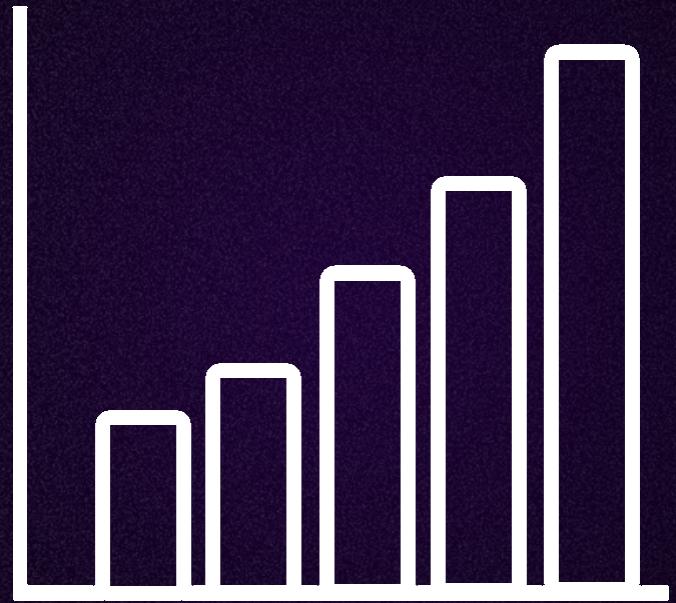
SOURCES:



SUPERHERO API



SUPERHERO GLOSSARY

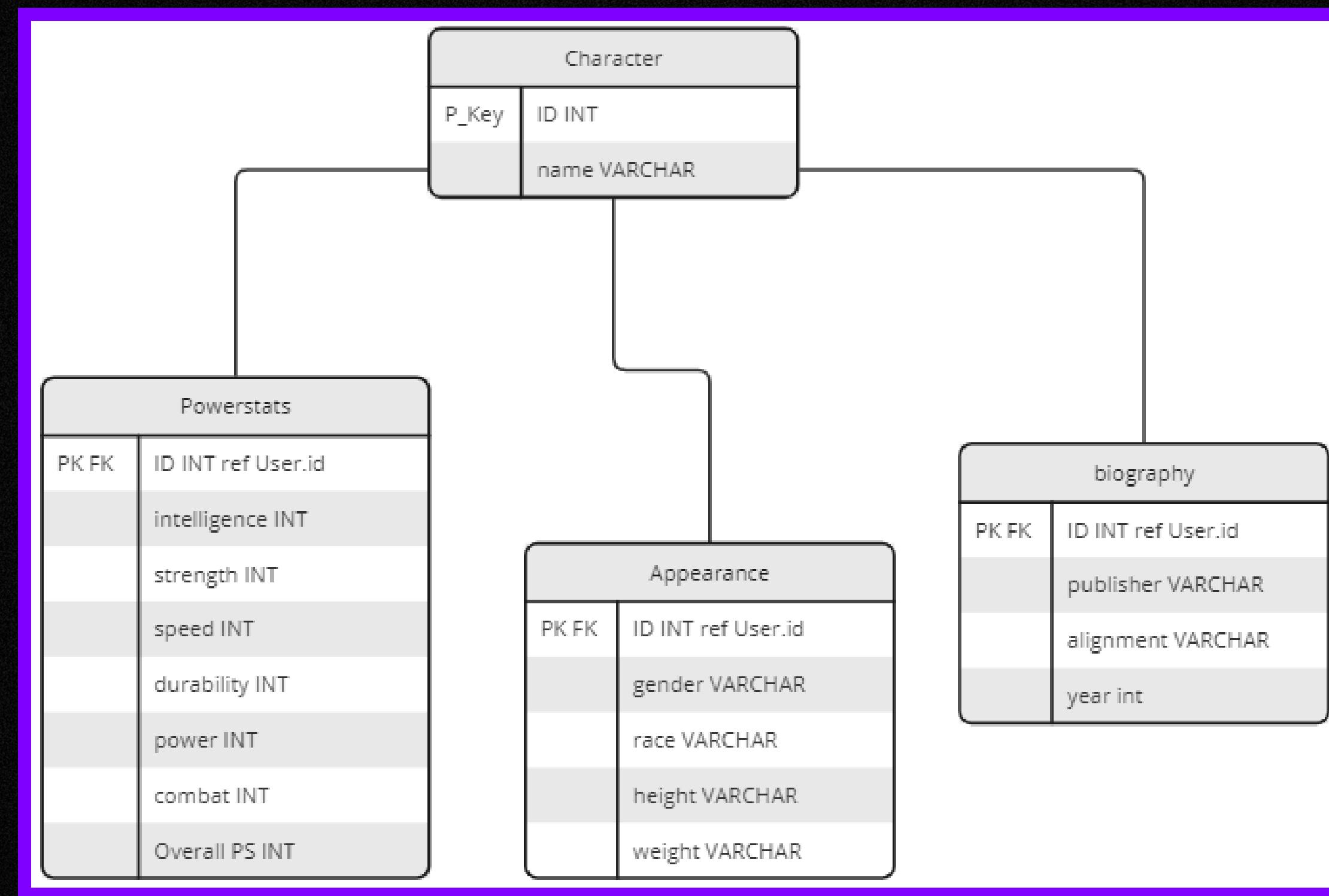


DATA WRANGLING & CLEANING

- DROP COLUMNS
- CHECK NAN VALUES & REPLACE OR DROP
- CHECK DUPLICATES
- FORMAT HEIGHT AND WEIGHT TO KG AND CM
- FORMAT TEXT AND REPLACE NAMES



ERD DIAGRAM



HYPOTHESES & OPPORTUNITIES



Hypothesis: Provide valuable insights to create a superhero-themed game. Based on the insights gathered from the dataset, brainstorm potential game mechanics and character stats that leverage the diverse range of superhero attributes and characteristics.

1. Game Creation



Hypothesis: Analyzing data on the number of heroes per universe (studio) and first appearances can provide valuable information for optimizing the planning and organization of a successful Comic Con.

2. Comic Con Planning



Hypothesis (fictional): The selection of comic book characters for a defense team will be optimized based on a combination of power scores, alignment, and affiliation to effectively combat the alien invasion.

3. Earth's Last Defense



1. Game Creation

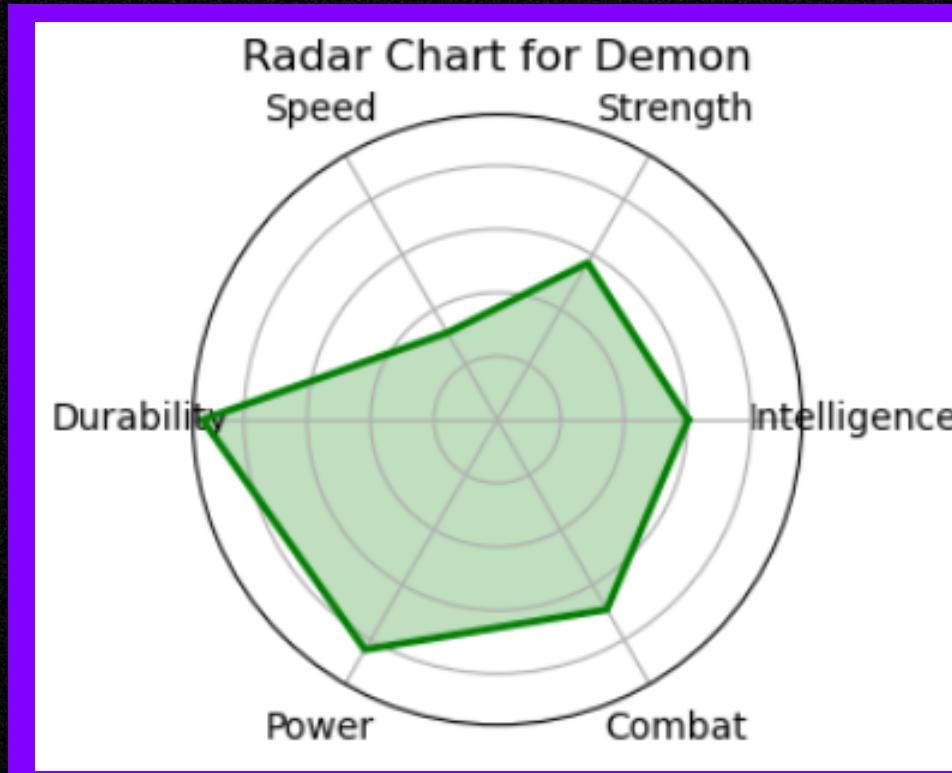
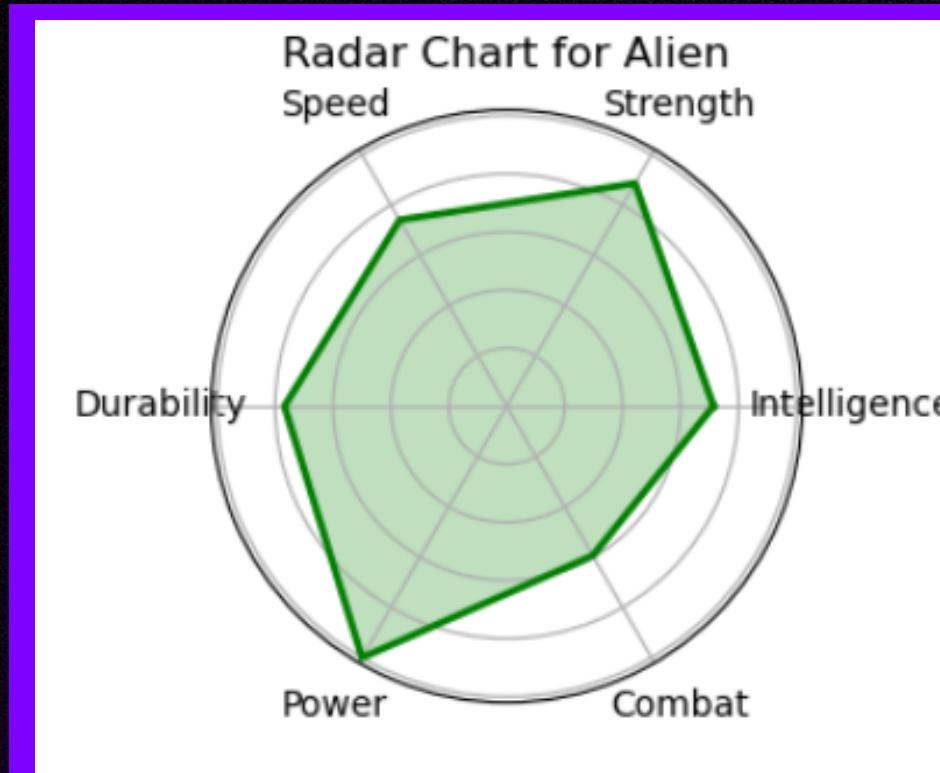
Objectives:

- Understand if the database contains the necessary data to support a game creation.

Findings:

- 65 Characters
- 13 Teams With at Least 5 Characters

Radar Chart



HYPOTHESES & OPPORTUNITIES

	name	Id	Intelligence	Overall_ps	race	hero_rank
0	Doomsday	230	75	532	Alien	1
1	Century	167	88	485	Alien	2
2	Silver Surfer	598	56	478	Alien	3
3	Ardina	42	63	468	Alien	4
4	Indigo	342	75	388	Alien	5
...
60	Venompool	690	69	489	Symbiote	1
61	Anti-Venom	34	75	470	Symbiote	2
62	Carnage	162	63	458	Symbiote	3
63	Venom	687	75	451	Symbiote	4
64	Toxin	672	75	449	Symbiote	5

Expected Outcome:

By analyzing the available superhero dataset, developers can gain insights into the distribution and characteristics of various superhero attributes. This analysis can inform the design and development of a superhero-themed game.



2. Comic Con Planning

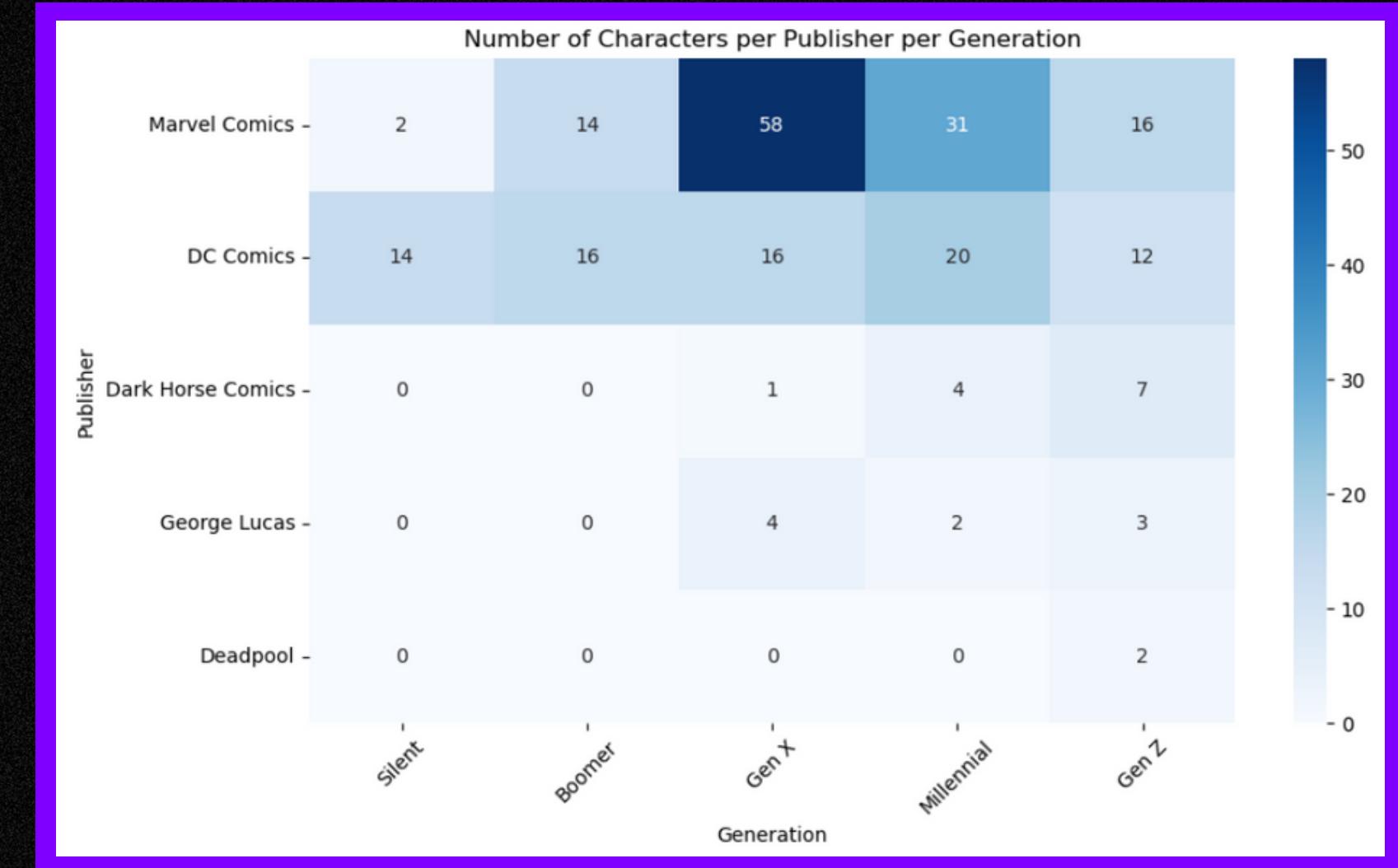
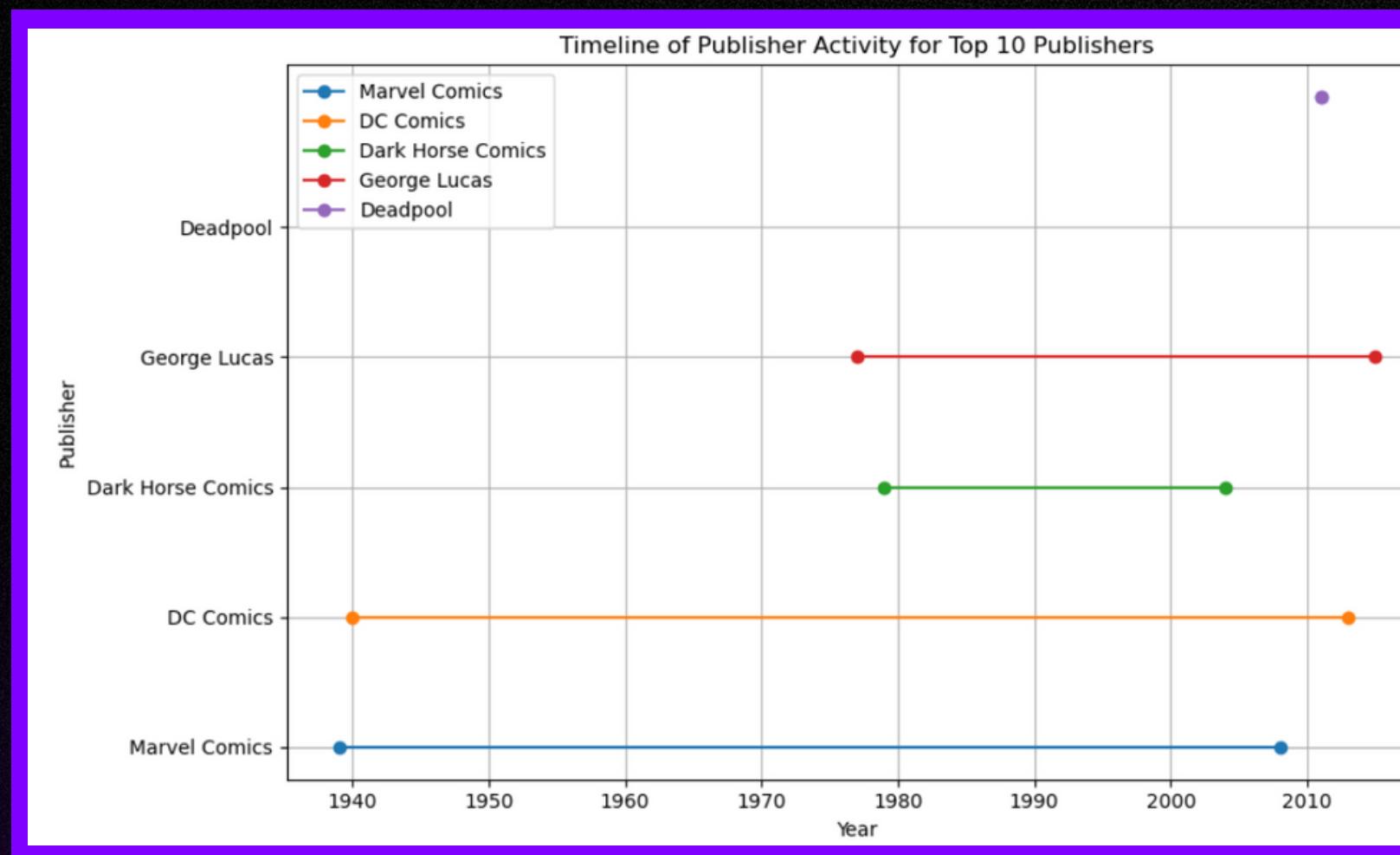
HYPOTHESES & OPPORTUNITIES

Objectives:

- Support the creation of a comic con organized by the year of the characters' creation or by generations

Findings:

- Marvel and DC are the publishers with the most characters and the biggest timeline.



Expected Outcome:

By leveraging data-driven insights, organizers can tailor the comicon experience to better meet the preferences and expectations of attendees, leading to increased attendance, engagement, and overall satisfaction with the event.



3. Earth's Last Defense

HYPOTHESES &
OPPORTUNITIES

	name	Id	Intelligence	Strength	Speed	Durability	Power	Combat
Martian Manhunter	432		100	95	92	100	100	85
Supergirl	643		94	100	100	100	100	75
Power Girl	524		94	100	100	100	100	75
Wonder Woman	720		88	100	79	100	100	100
Phoenix	517		100	100	83	100	100	80
Spectre	613		88	100	100	100	100	70
Thor	659		69	100	83	100	100	100
Captain Marvel	156		88	100	88	95	100	75
Nova	496		100	85	75	100	100	80
Hulk	332		88	100	63	100	98	85

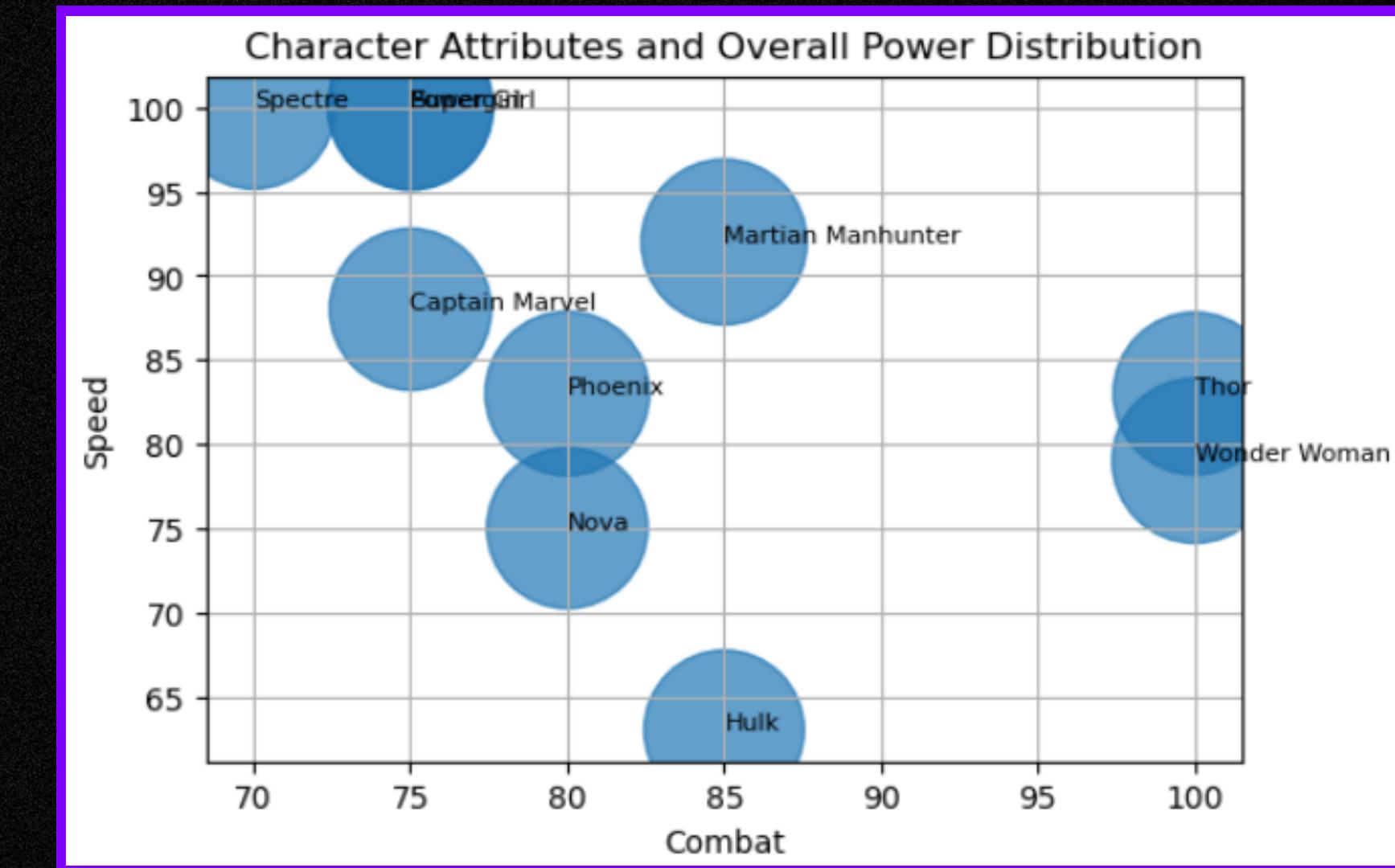
Analyze the dataset to identify characters with exceptionally high power scores across various attributes (e.g., Intelligence, Strength, Combat). Additionally, consider characters with diverse alignments and affiliations to ensure a balanced team composition.

Race:

- All

Alignment:

- 😇



AND BECAUSE WE KNOW YOU WERE
WONDERING ABOUT THE VARIETY OF THIS
DATASET, HERE IT IS!

THANK YOU

