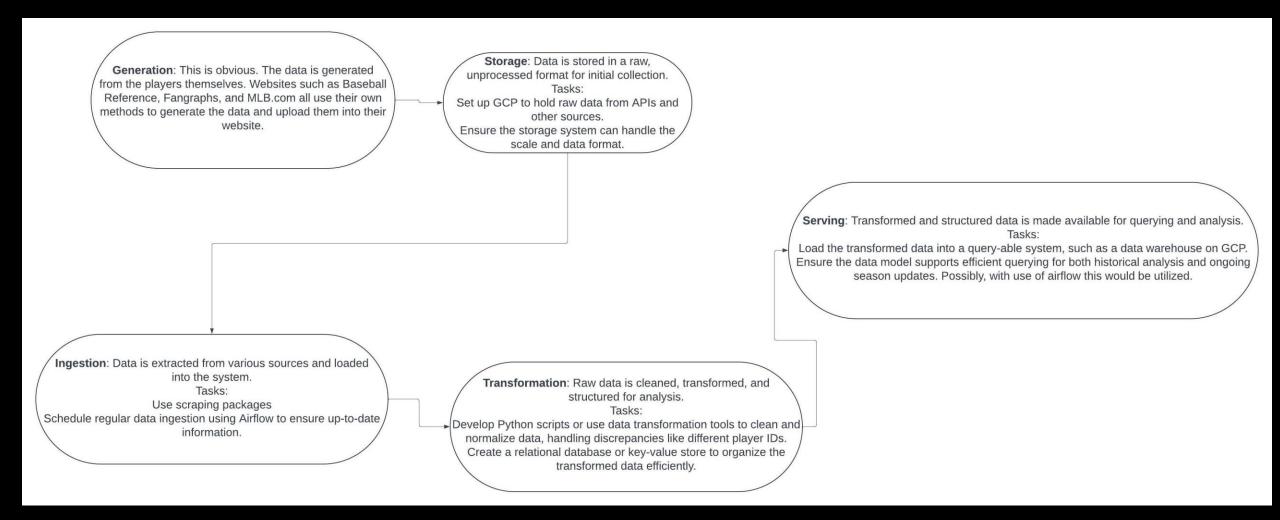


Why a Baseball Stats Pipeline

Because it's the reason I am here!



What I did?



.XIFANGRAPHS

2022 Top 50 Free Agents

Generation



Pybaseball Package

- I used Pybaseball package to scrape data
- Many options
 - Baseball_scraper
 - Mlb Stats API
- MLB API is both great and terrible







Node, is Library for making requests to the MLB Stats API

a 4

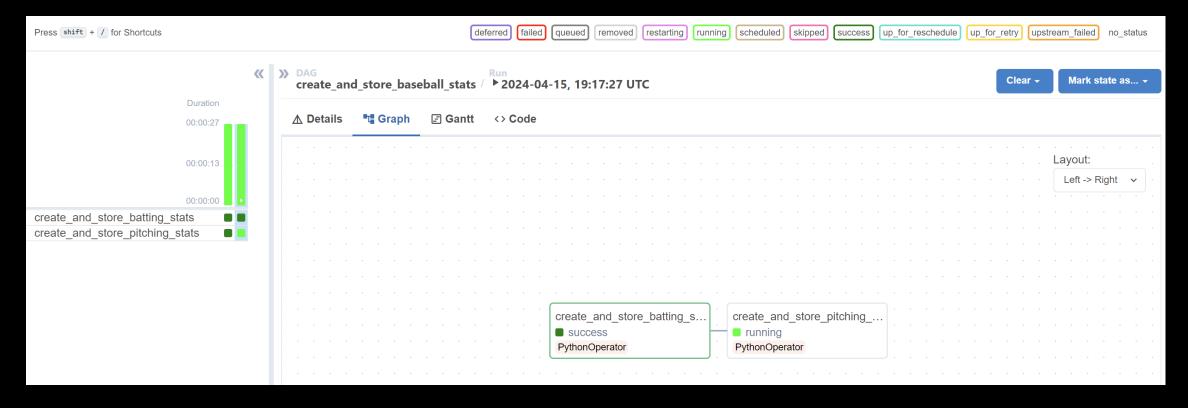
Contributors

G 35

☆ 32

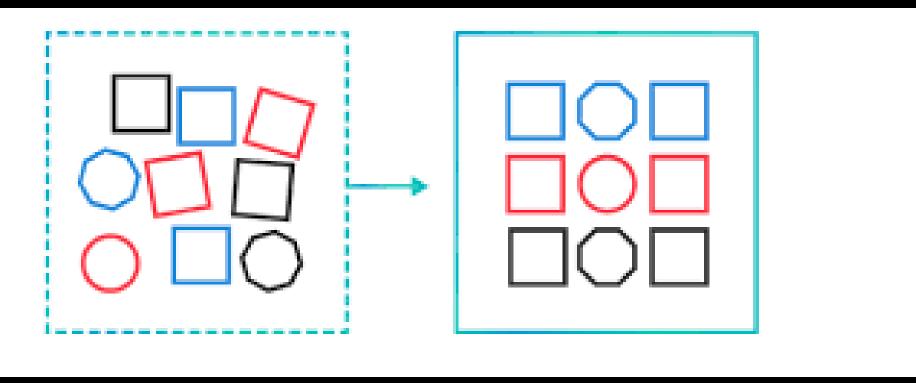
32 5





Ingestion

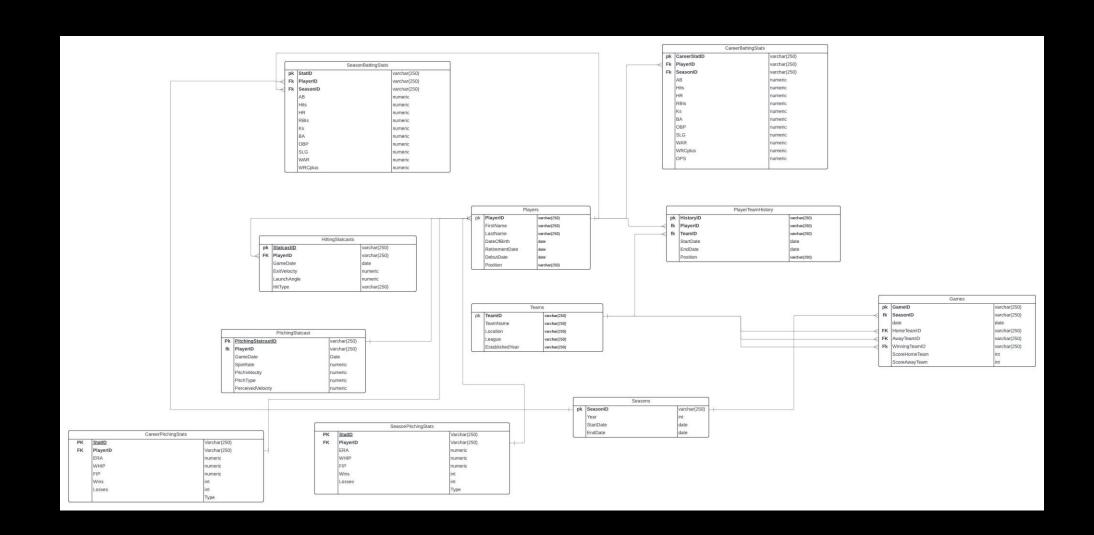
- This was done by creating tables and using functions to fetch data from pybaseball scraper
- Eventually took these functions and put them into an airflow for easier future automation



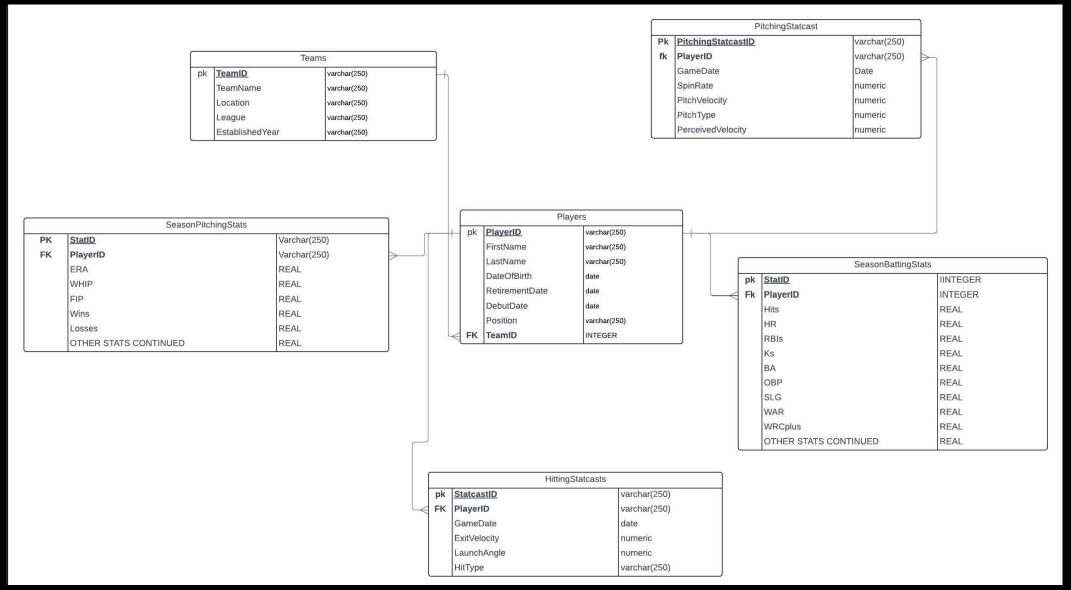
Transformation

• This was done by converting all the datasets generated in pybaseball and formatting them to fit my logical model.

Number of columns in SeasonBattingStats: 317

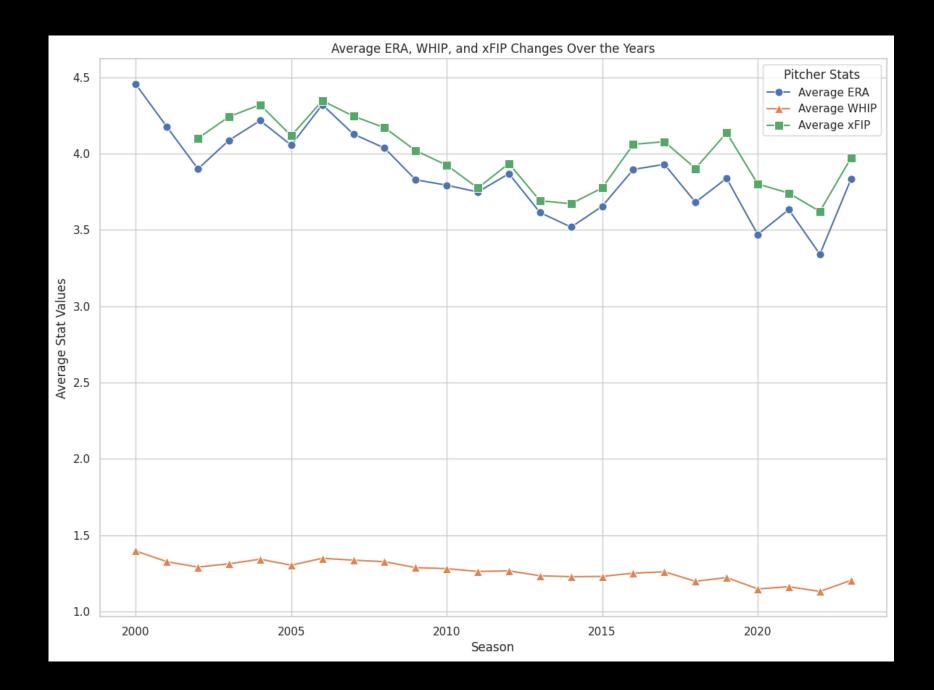


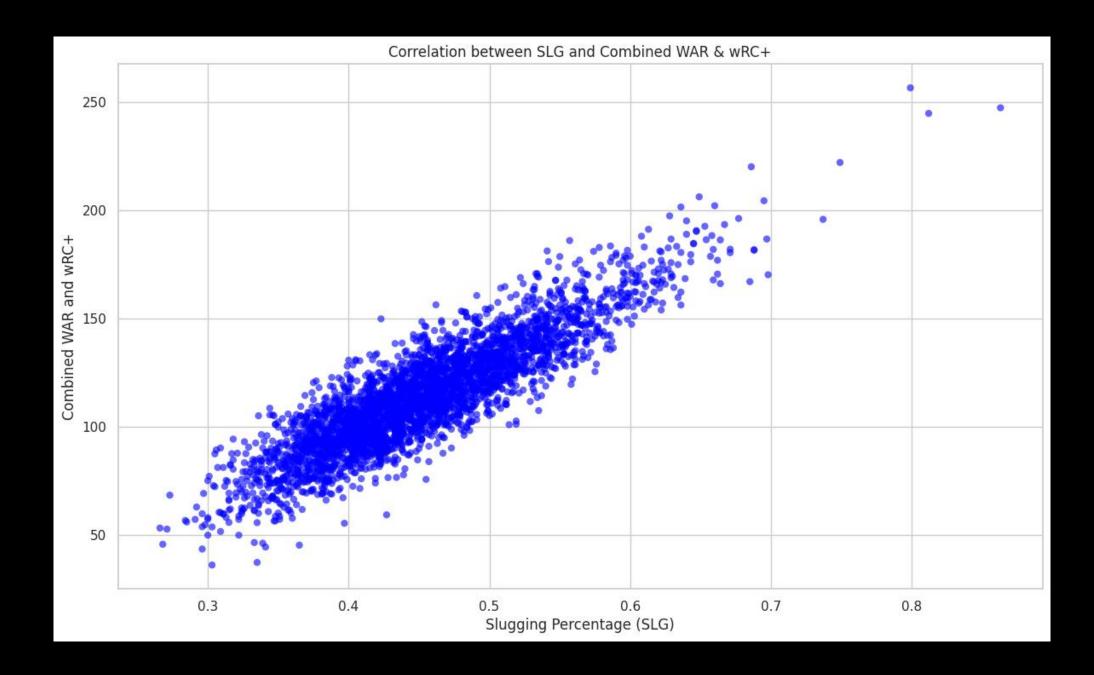
Challenges



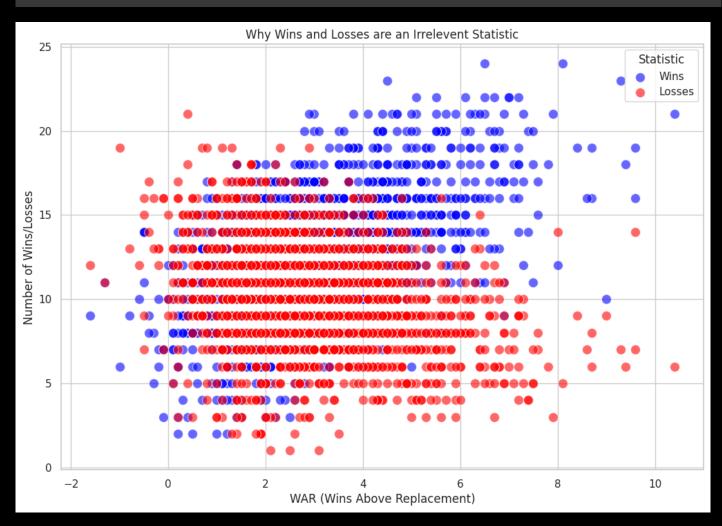
Final ERD

Serving





	+			
Parameter	Wins	Losses		
0 Coefficient 1 P-value 2 R-squared 3 Adj. R-squared	1.1576772471390062 3.230995391795463e-131 0.2814402070241847 0.28104056309038283	-0.5858824832461207 2.709156638605293e-41 0.09587028552839727 0.09536743251701152		



Storage

OBJECTS	CONFIGURATION	PERMISSIONS	PROTECTION	LIFECYCLE	OBSERVABILITY	INVENTORY REPORTS	OPERATIONS			
Folder brov	/ser	I<	Buckets > baseba	II_project12 > path	> to > destination	on (
▼ baseball_project12 ▼ path/			UPLOAD FILES UPLOAD FOLDER CREATE FOLDER TRANSFER DATA ▼ MANAGE HOLDS EDIT RETENTION DOWNLOAD DELETE							
▼ 1	destination/	:	Filter by name prefix of	er by name prefix only ▼			Show Live objects only ▼			
			Name		Size	Туре	Created ?	Storage class	Last modified	
			■ baseball_s	stats.db	3.8 MB	application/octet-stream	Apr 15, 2024, 2:16:50 PM	Standard	Apr 15, 2024,	<u>*</u> :



Google Cloud

Future Plans

- I now have a working database and an airflow that can easily automatically update my data!
- Try to figure out issues with different ID's for different websites
- Make a more cohesive ERD with information on player contracts, player history, etc.

