

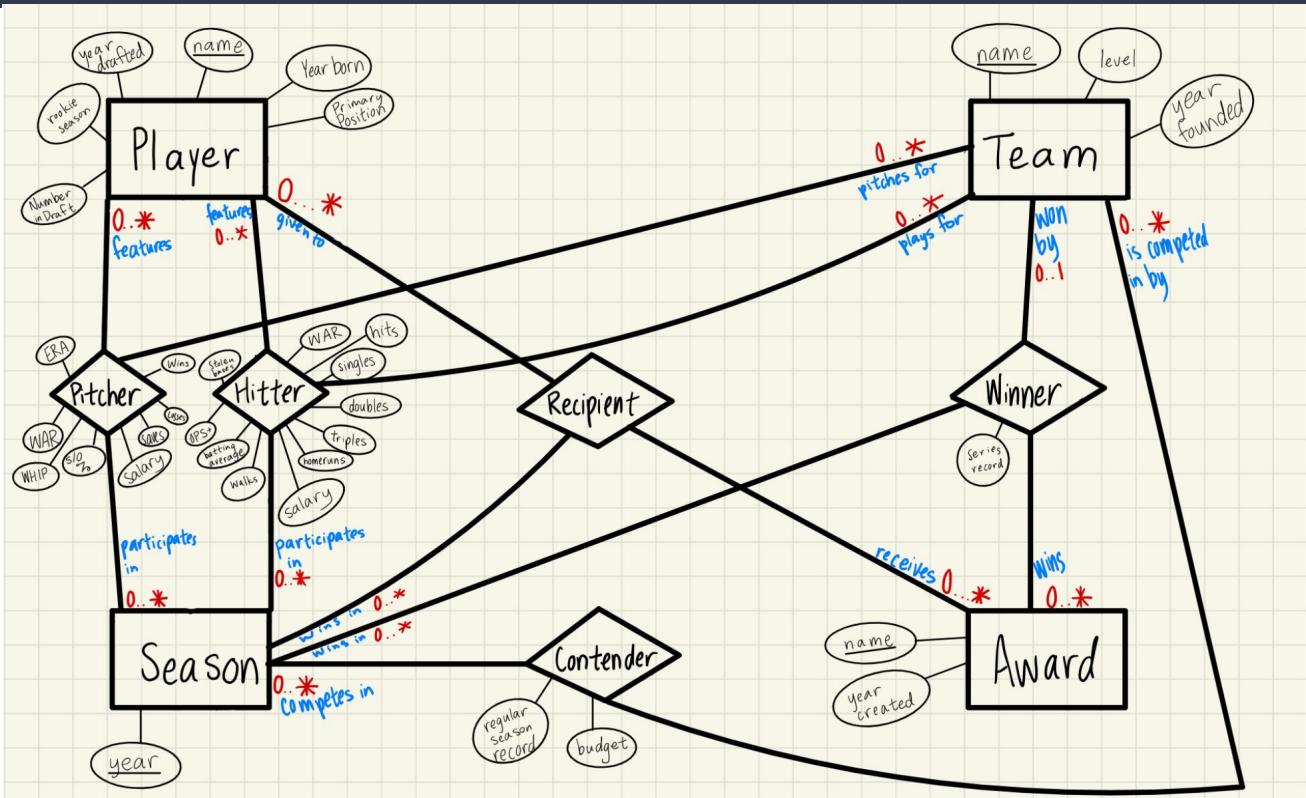
San Francisco Giants Database

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Concept

- SF Giants Database for administrators within the team
- Goal: show players throughout time and rank them
- Analyze achievements both by individual players and by teams: end goal is how can past success be recreated?

ER Diagram



Queries

```
all_time_hitter : `SELECT p.player_name,  
SUM(h.games_played) as games_played, SUM(h.salary)  
as salary, SUM(h.war) as war, SUM(h.hits) as hits,  
SUM(h.singles) as singles, SUM(h.doubles) as doubles,  
SUM(h.triples) as triples, SUM(h.homeruns) as  
home_runs, SUM(h.stolen_bases) as stolen_bases,  
ROUND(AVG(h.batting_avg), 3) as batting_avg,  
ROUND(AVG(h.ops), 3) as ops, ROUND(AVG(h.slg), 3) as  
slg  
FROM hitter h JOIN player p USING  
(player_name)  
WHERE p.primary_position = ?  
GROUP BY p.player_name`,
```

Populating Data

- Original: by hand, via baseball-reference.com
- Later, for testing - via AI

Testing Code

- Constantly running the server
- ```
console.log('Player:', player);
console.log('Season:', season);
```
- Adding more values (thank you AI)

# Final Thoughts - roadblocks and next steps

- Python → Node.js
- Originally going to include minor league players, scrapped due to lack of time
- Left Outer Join to get hyperlinks
  
- Currently more for fans viewing pleasure
- Include minor leaguers, rank prospects
- Hover over data to get more info (for awards)
- Validate user data when coming from search bars
- Expand scope to include other teams for scouting reports