

# San Francisco Giants Database

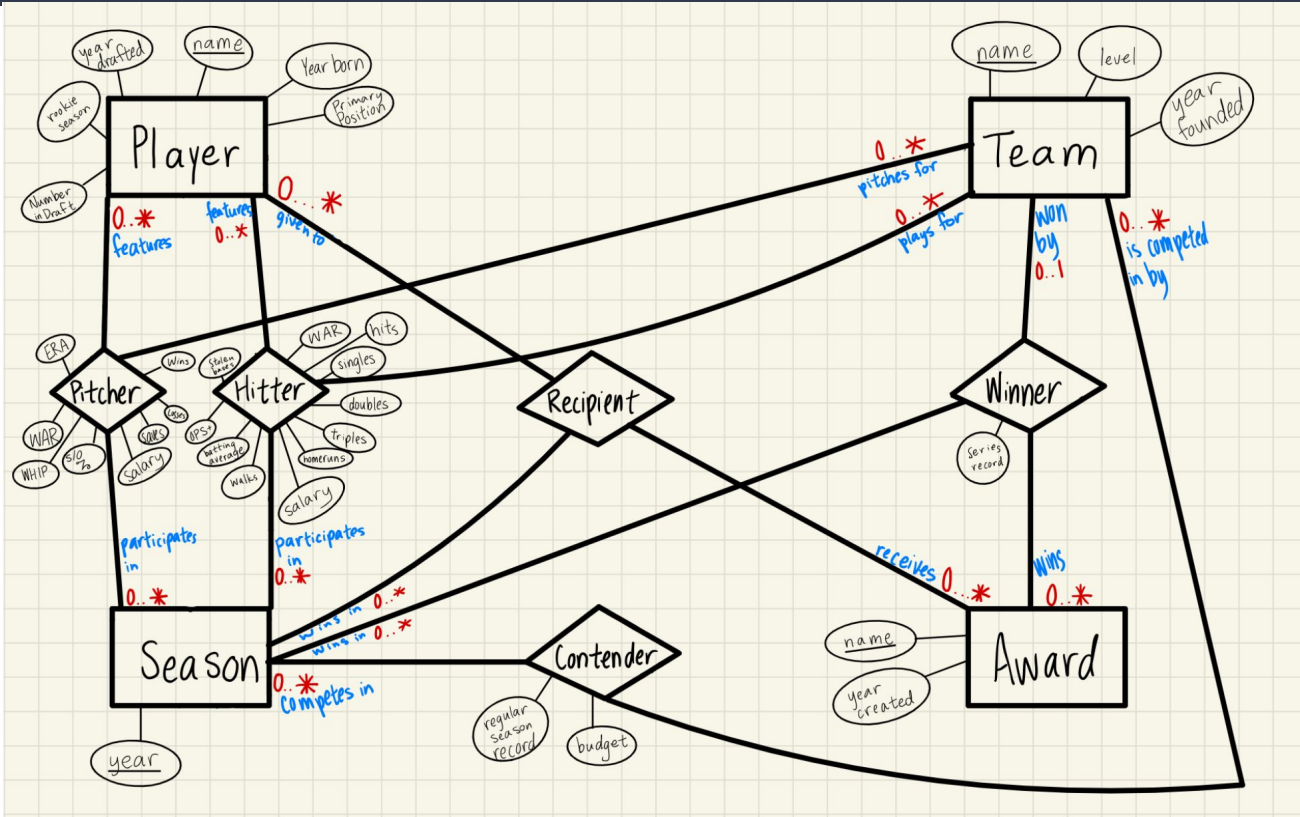
By Izzy Tilles

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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](https://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**