



The Best of Baseball Awards

About the Project

This project is part of an off platform project from CodeAcademy's SQL course.

This projects looks at a massive baseball database containing information about players, teams, managers, salaries, and much more. The dataset contains data from 2019 all the way back to 1871.

The following slides showcase SQL query and query results which provide information regarding specific made up baseball awards.



Heaviest Hitters: 2009 Chicago White Sox

This award goes to the team with the highest average weight of its batters on a given year.

```
-- Heaviest Hitters
SELECT
    ROUND(AVG(weight),2) AS Avg_Weight_lbs,
    batting.yearid,
    teams.name
FROM people
INNER JOIN batting
    ON people.playerID = Batting.playerID
INNER JOIN teams
    ON batting.teamID = teams.teamID
GROUP BY 2,3
ORDER BY 1 DESC;
```

avg_weight_lbs	year	name
221.33	2009	Chicago White Sox
220.91	2014	Chicago White Sox
219.74	2008	Chicago White Sox
219.38	2015	Philadelphia Blue Jays
219.38	2015	Philadelphia Phillies
219.38	2015	Philadelphia Quakers
219.02	2007	Chicago White Sox
219.02	2016	Washington Nationals
219.02	2016	Washington Senators
218.77	2013	Seattle Mariners

Shortest Sluggers: 1872 Middletown Mansfields

This award goes to the team with the smallest average height of its batters on a given year.

```
-- Shortest Hitters
SELECT
    ROUND(AVG(people.height),2) AS AVG_Height_Inches,
    teams.name,
    batting.yearid
FROM people
INNER JOIN batting
    ON people.playerID = batting.playerID
INNER JOIN teams
    ON batting.teamID = teams.teamID
GROUP BY 2,3
ORDER BY 1 ASC;
```

avg_height_inches	name	year
66.57	Middletown Mansfields	1872
67.25	St. Louis Brown Stockings	1877
67.25	St. Louis Brown Stockings	1876
67.27	Indianapolis Blues	1878
67.45	Washington Olympics	1872
67.57	Baltimore Marylands	1873
67.83	Baltimore Canaries	1872
67.85	Washington Olympics	1871
67.92	Philadelphia Athletics	1883
67.94	Providence Grays	1878

Biggest Spenders: 2013 New York Yankees

This award goes to the team with the largest total salary of all players in a given year.

```
-- Biggest Spenders
SELECT
    SUM(salaries.salary) AS sum_of_player_salaries,
    salaries.teamid,
    teams.name AS team,
    salaries.yearid AS year,
    ROW_NUMBER()
        OVER(PARTITION BY salaries.yearid ORDER BY SUM(salaries.salary) DESC)
        AS Biggest_Spender_Position_Based_on_Yr
FROM salaries
INNER JOIN teams
    ON salaries.teamid = teams.teamid
    AND teams.yearid = salaries.yearid
GROUP BY 2,3,4
ORDER BY 1 DESC;
```

sum_of_player_salaries	teamid	team	year	biggest_spender_position_based_on_yr
231978886	NYA	New York Yankees	2013	1
223362196	LAN	Los Angeles Dodgers	2013	2
222997792	NYA	New York Yankees	2016	1
221288380	LAN	Los Angeles Dodgers	2016	2
217014600	LAN	Los Angeles Dodgers	2014	1
215792000	LAN	Los Angeles Dodgers	2015	1
212751957	NYA	New York Yankees	2015	2
208306817	NYA	New York Yankees	2005	1
207896789	NYA	New York Yankees	2008	1
206333389	NYA	New York Yankees	2010	1

Most Bang for their Buck in 2010: San Diego Padres

This award goes to the team that had the smallest “cost per win” in 2010.

```
-- Most Bang For Their Buck in 2010: The team with the smallest cost per win
SELECT
    ROUND(SUM(salaries.salary)/(teams.w)) AS Cost_Per_Win,
    teams.name AS team,
    salaries.yearid AS year
FROM salaries
INNER JOIN teams
    ON salaries.teamid = teams.teamid
    AND teams.yearid = salaries.yearid
WHERE salaries.yearid = 2010
GROUP BY teams.name,
    salaries.yearid,
    teams.w
ORDER BY 1 ASC;
```

cost_per_win	team	year
419992	San Diego Padres	2010
613035	Pittsburgh Pirates	2010
613895	Texas Rangers	2010
682159	Oakland Athletics	2010
712871	Florida Marlins	2010
732165	Toronto Blue Jays	2010
749203	Tampa Bay Rays	2010
788588	Cincinnati Reds	2010
887014	Cleveland Indians	2010
889855	Washington Nationals	2010

Priciest Starter: Cliff Lee in 2014

This award goes to the pitcher who, in a given year, cost the most money per game in which they were the starting pitcher.

```
-- Priciest Starter
SELECT
    salaries.salary,
    pitching.gs,
    ROUND(salaries.salary/pitching.gs) AS Cost_Per_Start,
    people.namefirst,
    people.namelast,
    pitching.teamid,
    pitching.yearid
FROM salaries
INNER JOIN pitching
    ON salaries.playerid = pitching.playerid
    AND salaries.yearid = pitching.yearid
    AND salaries.teamid = pitching.teamid
INNER JOIN people
    ON salaries.playerid = people.playerid
WHERE pitching.gs > 10
ORDER BY 3 DESC;
```

salary	gs	cost_per_start	namefirst	namelast	teamid	yearid
25000000	13	1923077	Cliff	Lee	PHI	2014
21000000	11	1909091	Matt	Cain	SFN	2015
21000000	11	1909091	James	Shields	SDN	2016
33000000	21	1571429	Clayton	Kershaw	LAN	2016
20000000	13	1538462	Roy	Halladay	PHI	2013
16329674	11	1484516	Wade	Miley	BAL	2016
28000000	20	1400000	Justin	Verlander	DET	2015
20000000	15	1333333	Matt	Cain	SFN	2014
14500000	11	1318182	Curt	Schilling	BOS	2005
15125000	12	1260417	Mike	Hampton	ATL	2005