Atlanta Braves – Data Developer Exercises

SQL Questions

1. List all batters that had a single season WAR greater than 3 during the 2002 or 2003 seasons, or a combined WAR greater than 5 over those two seasons. List in descending order of their combined WAR for those seasons.

name	combined_	WAR_2003		
Bonds, Barry	22.9	12.7	10.2	
Rodriguez, Alex	19.2	10.0	9.2	
Pujols, Albert	14.9	5.4	9.5	
Edmonds, Jim	13.0	6.7	6.3	
Rolen, Scott	12.7	6.5	6.2	
Beltran, Carlos	12.3	5.4	6.9	
Sheffield, Gary	12.1	4.8	7.3	
Helton, Todd	12.1	5.5	6.6	
Berkman, Lance	12.1	6.1	6.0	
Thome, Jim	11.6	7.3	4.3	
Giambi, Jason	11.6	6.6	5.0	
Jones, Andruw	11.5	6.3	5.2	
Giles, Brian	11.5 (11.3	6.9 3.9	4.6 7.4	
Boone, Bret	11.3	5.3	7. 4 5.8	
Ramirez, Manny Cameron, Mike	10.8	5.5	5.3	
Abreu, Bobby	10.8	5.2	5.6	
Soriano, Alfonso	10.7	5.6	5.1	
Garciaparra, Nomar	10.6			
Suzuki, Ichiro	10.4	4.7		
Renteria, Edgar	10.4	4.1	6.3	
Posada, Jorge	10.2	4.2	6.0	
Guerrero, Vladimir	10.1	7.1	3.0	
Koskie, Corey	10.0	5.1	4.9	
Kent, Jeff	10.0 6	5.7	3.3	
Jones, Chipper	9.8	5.9	3.9	
Chavez, Eric	9.8	5.7	4.1	
Delgado, Carlos	9.6	4.3	5.3	
Jeter, Derek		5.2	4.1	
Ordonez, Magglio	9.1	4.5	4.6	
Kotsay, Mark	9.0	4.9	4.1	
Gonzalez, Luis	9.0	5.2	3.8	
Anderson, Garret	8.8 8.6	3.7 5.4	5.1 3.2	
Walker, Larry Bagwell, Jeff		4.8	3.7	
Winn, Randy	8.2	4.6	3.6	
Mora, Melvin	8.0	3.0	5.0	
Tejada, Miguel	7.9	4.5	3.4	
Sosa, Sammy	7.9	5.1	2.8	
Rodriguez, Ivan	7.8	3.3	4.5	
Nixon, Trot	7.7 2	2.7	5.0	
Hunter, Torii	7.7 4	.2	3.5	
Finley, Steve		4.2	3.4	
Vidro, Jose		4.3	3.2	
Giles, Marcus	7.5	8.0	6.7	

Valentin, Jose	7.4	3.5	3.9	
Castillo, Luis	7.4	2.5	4.9	
Lee, Derrek	7.3	3.5	3.8	
Palmeiro, Rafael	7.2	4.5	2.7	
Beltre, Adrian	7.2	4.0	3.2	
Lopez, Javy	7.0	0.2	6.8	
Mueller, Bill		2.2	4.7	
	6.8	4.4	2.4	
Damon, Johnny	6.8	2.9	3.9	
Polanco, Placido				
Lowell, Mike	6.8	2.7	4.1	
Jones, Jacque	6.8	5.0	1.8	
Green, Shawn	6.7	4.9	1.8	
Furcal, Rafael	6.7	2.7	4.0	
Lofton, Kenny	6.7	2.8	3.9	
Olerud, John	6.6	4.5	2.1	
Durham, Ray	6.6	3.5	3.1	
Alfonzo, Edgardo	6.6	5.3	1.3	
Sexson, Richie	6.5	2.9	3.6	
Kendall, Jason	6.4	2.2	4.2	
Kennedy, Adam	6.3	3.4	2.9	
Hidalgo, Richard	6.3	0.3	6.0	
Stewart, Shannon	6.2	3.2	3.0	
Lieberthal, Mike	6.2	3.1	3.1	
·				
Piazza, Mike	6.2	4.6	1.6	
Hinske, Eric	6.2	4.8	1.4	
Sweeney, Mike	6.1	4.5	1.6	
Sanders, Reggie	6.1	3.1	3.0	
Pierre, Juan	6.0	1.8	4.2	
Klesko, Ryan	6.0	4.6	1.4	
Klesko, Ryan Kearns, Austin	6.0 6.0	4.6 5.0	1.4 1.0	
· •				
Kearns, Austin	6.0	5.0 1.9 2.2	1.0 4.1 3.7	
Kearns, Austin Bradley, Milton	6.0 6.0 5.9	5.0 1.9 2.2	1.0 4.1	
Kearns, Austin Bradley, Milton Mientkiewicz, Doug	6.0 6.0 5.9	5.0 1.9 2.2	1.0 4.1 3.7	
Kearns, Austin Bradley, Milton Mientkiewicz, Doug Floyd, Cliff	6.0 6.0 5.9 5.9	5.0 1.9 2.2 3.7	1.0 4.1 3.7 2.2	
Kearns, Austin Bradley, Milton Mientkiewicz, Doug Floyd, Cliff Cabrera, Orlando Gonzalez, Alex	6.0 6.0 5.9 5.9	5.0 1.9 2.2 3.7 1.7	1.0 4.1 3.7 2.2 4.2	
Kearns, Austin Bradley, Milton Mientkiewicz, Doug Floyd, Cliff Cabrera, Orlando Gonzalez, Alex Wilkerson, Brad	6.0 6.0 5.9 5.9 5.9 5.8 5.7	5.0 1.9 2.2 3.7 1.7 1.0 1.8	1.0 4.1 3.7 2.2 4.2 2.7 3.9	
Kearns, Austin Bradley, Milton Mientkiewicz, Doug Floyd, Cliff Cabrera, Orlando Gonzalez, Alex Wilkerson, Brad Pierzynski, A.J.	6.0 6.0 5.9 5.9 5.8 5.7 5.7	5.0 1.9 2.2 3.7 1.7 1.0 1.8 2.1	1.0 4.1 3.7 2.2 4.2 2.7 3.9 3.6	
Kearns, Austin Bradley, Milton Mientkiewicz, Doug Floyd, Cliff Cabrera, Orlando Gonzalez, Alex Wilkerson, Brad Pierzynski, A.J. Lee, Carlos	6.0 6.0 5.9 5.9 5.8 5.7 5.7 5.7	5.0 1.9 2.2 3.7 1.7 1.0 1.8 2.1 2.0	1.0 4.1 3.7 2.2 4.2 2.7 3.9 3.6 3.7	
Kearns, Austin Bradley, Milton Mientkiewicz, Doug Floyd, Cliff Cabrera, Orlando Gonzalez, Alex Wilkerson, Brad Pierzynski, A.J. Lee, Carlos Eckstein, David	6.0 6.0 5.9 5.9 5.8 5.7 5.7 5.7	5.0 1.9 2.2 3.7 1.7 1.0 1.8 2.1 2.0 4.5	1.0 4.1 3.7 2.2 4.2 2.7 3.9 3.6 3.7	
Kearns, Austin Bradley, Milton Mientkiewicz, Doug Floyd, Cliff Cabrera, Orlando Gonzalez, Alex Wilkerson, Brad Pierzynski, A.J. Lee, Carlos Eckstein, David Varitek, Jason	6.0 6.0 5.9 5.9 5.8 5.7 5.7 5.7 5.7	5.0 1.9 2.2 3.7 1.7 1.0 1.8 2.1 2.0 4.5 1.9	1.0 4.1 3.7 2.2 4.2 2.7 3.9 3.6 3.7 1.2 3.8	
Kearns, Austin Bradley, Milton Mientkiewicz, Doug Floyd, Cliff Cabrera, Orlando Gonzalez, Alex Wilkerson, Brad Pierzynski, A.J. Lee, Carlos Eckstein, David Varitek, Jason Dunn, Adam	6.0 6.0 5.9 5.9 5.8 5.7 5.7 5.7 5.7 5.7	5.0 1.9 2.2 3.7 1.7 1.0 1.8 2.1 2.0 4.5 1.9	1.0 4.1 3.7 2.2 4.2 2.7 3.9 3.6 3.7 1.2 3.8 1.6	
Kearns, Austin Bradley, Milton Mientkiewicz, Doug Floyd, Cliff Cabrera, Orlando Gonzalez, Alex Wilkerson, Brad Pierzynski, A.J. Lee, Carlos Eckstein, David Varitek, Jason Dunn, Adam Thomas, Frank	6.0 6.0 5.9 5.9 5.8 5.7 5.7 5.7 5.7 5.7 5.7	5.0 1.9 2.2 3.7 1.7 1.0 1.8 2.1 2.0 4.5 1.9 4.1 1.4	1.0 4.1 3.7 2.2 4.2 2.7 3.9 3.6 3.7 1.2 3.8 1.6 4.2	
Kearns, Austin Bradley, Milton Mientkiewicz, Doug Floyd, Cliff Cabrera, Orlando Gonzalez, Alex Wilkerson, Brad Pierzynski, A.J. Lee, Carlos Eckstein, David Varitek, Jason Dunn, Adam Thomas, Frank Salmon, Tim	6.0 6.0 5.9 5.9 5.8 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.6 5.6	5.0 1.9 2.2 3.7 1.7 1.0 1.8 2.1 2.0 4.5 1.9 4.1 1.4 3.3	1.0 4.1 3.7 2.2 4.2 2.7 3.9 3.6 3.7 1.2 3.8 1.6 4.2 2.3	
Kearns, Austin Bradley, Milton Mientkiewicz, Doug Floyd, Cliff Cabrera, Orlando Gonzalez, Alex Wilkerson, Brad Pierzynski, A.J. Lee, Carlos Eckstein, David Varitek, Jason Dunn, Adam Thomas, Frank Salmon, Tim Cruz, Jose	6.0 6.0 5.9 5.9 5.8 5.7 5.7 5.7 5.7 5.7 5.7 5.6 5.6	5.0 1.9 2.2 3.7 1.7 1.0 1.8 2.1 2.0 4.5 1.9 4.1 1.4 3.3 2.4	1.0 4.1 3.7 2.2 4.2 2.7 3.9 3.6 3.7 1.2 3.8 1.6 4.2 2.3 3.2	
Kearns, Austin Bradley, Milton Mientkiewicz, Doug Floyd, Cliff Cabrera, Orlando Gonzalez, Alex Wilkerson, Brad Pierzynski, A.J. Lee, Carlos Eckstein, David Varitek, Jason Dunn, Adam Thomas, Frank Salmon, Tim Cruz, Jose Wilson, Preston	6.0 6.0 5.9 5.9 5.8 5.7 5.7 5.7 5.7 5.7 5.6 5.6 5.6	5.0 1.9 2.2 3.7 1.7 1.0 1.8 2.1 2.0 4.5 1.9 4.1 1.4 3.3 2.4 1.9	1.0 4.1 3.7 2.2 4.2 2.7 3.9 3.6 3.7 1.2 3.8 1.6 4.2 2.3 3.2	
Kearns, Austin Bradley, Milton Mientkiewicz, Doug Floyd, Cliff Cabrera, Orlando Gonzalez, Alex Wilkerson, Brad Pierzynski, A.J. Lee, Carlos Eckstein, David Varitek, Jason Dunn, Adam Thomas, Frank Salmon, Tim Cruz, Jose Wilson, Preston Wells, Vernon	6.0 6.0 5.9 5.9 5.8 5.7 5.7 5.7 5.7 5.7 5.6 5.6 5.6 5.3	5.0 1.9 2.2 3.7 1.7 1.0 1.8 2.1 2.0 4.5 1.9 4.1 1.4 3.3 2.4 1.9 1.4	1.0 4.1 3.7 2.2 4.2 2.7 3.9 3.6 3.7 1.2 3.8 1.6 4.2 2.3 3.2 3.4 3.8	
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Kearns, Austin Bradley, Milton Mientkiewicz, Doug Floyd, Cliff Cabrera, Orlando Gonzalez, Alex Wilkerson, Brad Pierzynski, A.J. Lee, Carlos Eckstein, David Varitek, Jason Dunn, Adam Thomas, Frank Salmon, Tim Cruz, Jose Wilson, Preston Wells, Vernon Loretta, Mark Ventura, Robin Huff, Aubrey Erstad, Darin Ensberg, Morgan Williams, Bernie	6.0 6.0 5.9 5.9 5.8 5.7 5.7 5.7 5.7 5.7 5.6 5.6 5.6 5.3 5.2 5.1 5.1 5.1	5.0 1.9 2.2 3.7 1.7 1.0 1.8 2.1 2.0 4.5 1.9 4.1 1.4 3.3 2.4 1.9 1.4 0.7 3.7 2.0 3.6 0.4	1.0 4.1 3.7 2.2 4.2 2.7 3.9 3.6 3.7 1.2 3.8 1.6 4.2 2.3 3.2 3.4 3.8 4.4 1.4 3.1 1.5 4.6	
Kearns, Austin Bradley, Milton Mientkiewicz, Doug Floyd, Cliff Cabrera, Orlando Gonzalez, Alex Wilkerson, Brad Pierzynski, A.J. Lee, Carlos Eckstein, David Varitek, Jason Dunn, Adam Thomas, Frank Salmon, Tim Cruz, Jose Wilson, Preston Wells, Vernon Loretta, Mark Ventura, Robin Huff, Aubrey Erstad, Darin Ensberg, Morgan Williams, Bernie Alou, Moises	6.0 6.0 5.9 5.9 5.8 5.7 5.7 5.7 5.7 5.7 5.6 5.6 5.6 5.3 5.2 5.1 5.1 5.1 5.0 4.9	5.0 1.9 2.2 3.7 1.7 1.0 1.8 2.1 2.0 4.5 1.9 4.1 1.4 3.3 2.4 1.9 1.4 0.7 3.7 2.0 3.6 0.4 4.9 1.4	1.0 4.1 3.7 2.2 4.2 2.7 3.9 3.6 3.7 1.2 3.8 1.6 4.2 2.3 3.2 3.4 3.8 4.4 1.4 3.1 1.5 4.6 0 3.4	
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Kearns, Austin Bradley, Milton Mientkiewicz, Doug Floyd, Cliff Cabrera, Orlando Gonzalez, Alex Wilkerson, Brad Pierzynski, A.J. Lee, Carlos Eckstein, David Varitek, Jason Dunn, Adam Thomas, Frank Salmon, Tim Cruz, Jose Wilson, Preston Wells, Vernon Loretta, Mark Ventura, Robin Huff, Aubrey Erstad, Darin Ensberg, Morgan Williams, Bernie Alou, Moises Matthews, Gary	6.0 6.0 5.9 5.9 5.8 5.7 5.7 5.7 5.7 5.7 5.7 5.6 5.6 5.6 5.3 5.2 5.1 5.1 5.1 5.1 4.9 4.8 4.7	5.0 1.9 2.2 3.7 1.0 1.8 2.1 2.0 4.5 1.9 4.1 1.4 3.3 2.4 1.9 1.4 0.7 3.7 2.0 3.6 0.4 4.9 1.4 3.1	1.0 4.1 3.7 2.2 4.2 2.7 3.9 3.6 3.7 1.2 3.8 1.6 4.2 2.3 3.2 3.4 3.8 4.4 1.4 3.1 1.5 4.6 0 3.4 1.6	

Spivey, Junior	4.4	4.3	0.1
Ortiz, David	4.3	1.1	3.2
Vizquel, Omar	4.3	3.3	1.0
Hernandez, Ramon	4.3		0 3.3
Glaus, Troy	4.2	3.7	0.5
Lee, Travis	4.1	0.7	3.4
Jenkins, Geoff	4.0	0.9	3.1
DaVanon, Jeff	4.0	0.0	4.0
Burks, Ellis	3.7	3.1	0.6
Bellhorn, Mark	3.6	3.9	0
Byrd, Marlon	3.4	0	3.6
Hatteberg, Scott	3.3	3.2	0.1
Podsednik, Scott	3.2	0.0	3.2
Gerut, Jody	3.2	0	3.2
Bell, David	3.2	3.1	0.1
Matos, Luis	3.1	0	3.6
Hernandez, Jose	3.0	4.5	0
Mondesi, Raul	2.8	0	3.2
Guillen, Jose	2.0	0	3.5

CODE:

SELECT DISTINCT name, -- Select the player's name

SUM(CAST(WAR AS REAL)) AS combined_WAR, -- Calculate the combined WAR for 2002 and 2003

MAX(CASE WHEN year = '2002' THEN CAST(WAR AS REAL) ELSE 0 END) AS WAR 2002, -- Maximum WAR for 2002

MAX(CASE WHEN year = '2003' THEN CAST(WAR AS REAL) ELSE 0 END) AS WAR_2003 -- Maximum WAR for 2003

FROM WAR -- Specify the table to guery from

WHERE year IN ('2002', '2003') -- Include only data from 2002 and 2003

GROUP BY name -- Group results by player name

HAVING

MAX(CASE WHEN year = '2002' THEN CAST(WAR AS REAL) ELSE 0 END) > 3 -- Single-season WAR > 3 in 2002

OR MAX(CASE WHEN year = '2003' THEN CAST(WAR AS REAL) ELSE 0 END) > 3 -- Single-season WAR > 3 in 2003

OR SUM(CAST(WAR AS REAL)) > 5 -- Combined WAR > 5 for both years
ORDER BY combined WAR DESC; -- Sort results by combined WAR in descending order

2. Write a query that returns every pitcher who threw at least one pitch for the Atlanta Braves in 2018, along with three 1/0 indicator columns for whether they reached the 1+ WAR, 2+ WAR, or 3+ WAR cutoff in that year, along with a fourth column for their total yearly WAR

```
1_plu 2_plu 3_plu total
name
Foltynewicz, Mike 1 1 1
                      3.9
Sanchez, Anibal 1 1 0
Newcomb, Sean 1 0 0 1.9
Minter, A.J. 1 0 0
                    1.4
          1 0 0 1.2
Winkler, Dan
Gausman, Kevin 0 0 0.9
Teheran, Julio
            0 0 0 0.7
Soroka, Mike 0 0 0.6
Carle, Shane 0 0 0 0.6
           0 0 0 0.4
Fried, Max
Toussaint, Touki 0 0 0 0.4
Venters, Jonny 0 0 0 0.3
Vizcaino, Arodys 0 0 0 0.3
           0 0 0 0.3
Jackson, Luke
Freeman, Sam 0 0 0 0.3
           0 0 0 0.3
Brach, Brad
Biddle, Jesse 0 0 0 0.2
McCarthy, Brandon 0 0 0.2
Socolovich, Miguel 0 0 0 0.1
Wilson, Bryse
           0 0 0 0.1
```

CODE:

```
SELECT
  name, -- name
  CASE
    WHEN CAST(WAR AS REAL) >= 1 THEN 1 -- Check if WAR is at least 1
    ELSE 0
  END AS "1_plus_WAR", -- Indicator for achieving 1+ WAR
  CASE
    WHEN CAST(WAR AS REAL) >= 2 THEN 1 -- Check if WAR is at least 2
    ELSE 0
  END AS "2_plus_WAR", -- Indicator for achieving 2+ WAR
  CASE
    WHEN CAST(WAR AS REAL) >= 3 THEN 1 -- Check if WAR is at least 3
    ELSE 0
  END AS "3_plus_WAR", -- Indicator for achieving 3+ WAR
  CAST(WAR AS REAL) AS total WAR -- Convert the WAR column to a numeric type and
display as total yearly WAR
FROM
  PERF -- Table
WHERE
  Org = 'ATL' -- Filter for Team
  AND year = '2018' -- Filter for the 2018 season
```

AND CAST(WAR AS REAL) > 0 -- Include only pitchers with at least one pitch (WAR > 0) ORDER BY

total_WAR DESC; -- Sort the results by total yearly WAR in descending order

3. How many plate appearances did Luke Jackson have that reached a two-strike count but did NOT result in a strikeout? Of those plate appearances, how many passed through 0-2, 1-2 or 2-2 counts?

CODE:

SELECT

COUNT(DISTINCT PA_OF_INNING) AS total_two_strike_PAs, -- Total plate appearances with two strikes and no strikeout

SUM(CASE

WHEN (BALLS = 0 AND STRIKES = 2) THEN 1

FLSF 0

END) AS count_through_0_2, -- Count of plate appearances passing through a 0-2 count SUM(CASE

WHEN (BALLS = 1 AND STRIKES = 2) THEN 1

ELSE 0

END) AS count_through_1_2, -- Count of plate appearances passing through a 1-2 count SUM(CASE

WHEN (BALLS = 2 AND STRIKES = 2) THEN 1

ELSE 0

END) AS count_through_2_2 -- Count of plate appearances passing through a 2-2 count FROM

PITCHBYPITCH

WHERE

PitcherName = 'Jackson, Luke' -- Filter for Luke Jackson

AND STRIKES = 2 -- Focus on two-strike counts

AND IS STRIKEOUT = 0; -- Exclude plate appearances resulting in a strikeout