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Preppin' Data

A weekly challenge to help you learn to prepare data and use Tableau Prep

2019: Week 4

March 06, 2019

Welcome to week four and in my opinion, I'm three weeks too late for using basketball data. Both Jonathan and I are basketball fans but we have some questions that need solving. Therefore, this week is about using Prep to answer questions using the profile pane (of course you can build a viz if you want to). This is the Profile Pane:



The input data comes from ESPN and the way they capture the three major stats on each team's schedule.

San Antonio Spurs Schedule - 2018-19

2018-19

Regular Season

Add to Calendar

More NBA teams

DATE	OPPONENT	RESULT	W-L	HI POINTS	HI REBOUNDS	HI ASSISTS
Thu, Oct 18	vs Minnesota	W 112-108	1-0	Dejounte Murray 28	Alvin Hayes 19	Victor Oladipo 6
Sun, Oct 21	@ Portland	L 121-108	1-1	Dejounte Murray 28	Aron Baynes 8	Dejounte Murray 9
Tue, Oct 23	@ Los Angeles	W 140-142 OT	2-1	Aron Baynes 27	Carmelo Anthony 12	Dejounte Murray 14
Thu, Oct 25	vs Miami	L 116-96	2-2	Dejounte Murray 19	Aron Baynes 9	Dejounte Murray 8
Sun, Oct 28	vs Los Angeles	W 116-106	3-2	Dejounte Murray 20	Dejounte Murray 12	Dejounte Murray 8

Hi Points = Most points scored by a single player during the game  
Hi Rebounds = Most times a player has recovered possession after a missed shot  
Hi Assists = Most times a player has passed the ball to another player who then scored.

This data copies in to Excel really badly...

DATE	OPPONENT	RESULT	W-L	HI POINTS	HI REBOUNDS	HI ASSISTS
Thu, Oct 18	vs Minnesota	W112-108	1-0	DejounteMurray,28	AronBaynes,19	VictorOladipo,6
Sun, Oct 21	@ Portland	L121-108	1-1	DejounteMurray,28	AronBaynes,8	DejounteMurray,9
Tue, Oct 23	@ Los Angeles	W140-142 OT	2-1	AronBaynes,27	CarmeloAnthony,12	DejounteMurray,14
Thu, Oct 25	vs Miami	L116-96	2-2	DejounteMurray,19	AronBaynes,9	DejounteMurray,8
Sun, Oct 28	vs Los Angeles	W116-106	3-2	DejounteMurray,20	DejounteMurray,12	DejounteMurray,8
Mon, Oct 30	vs Dallas	W115-105 OT	4-2	DejounteMurray,24	GabrielLuis,11	DejounteMurray,8
Fri, Nov 4	@ Phoenix	W120-99	5-2	DejounteMurray,25	GabrielLuis,7	DejounteMurray,7
Sun, Nov 6	vs New Orleans	W100-99	6-2	DejounteMurray,25	AronBaynes,12	NickolaPeculiar,2

We have given you data just about Carl's favourite team, the San Antonio Spurs. You will obviously need to clean-up the data, but can then use some other functions in Prep Builder to help you answer the following questions.

- In games won by the Spurs, which player most often scores the most points?
- In games lost by the Spurs, which player most often scores the most points?
- What combination of players scores the most points, rebounds and assists the most frequently?
- Which player is the **second** most frequent at gaining the most assists in a game?
- With the answer to Q4, where do all these games happen: Home or Away?
- Which player scored the most points in games in October 2018 the most frequently?

Requirements:

- Import the file
- Fix some date issues!
- Split the "Hi-" categories up so player and value is separate
- Determine whether each game was played by the Spurs: Home or Away?
- Determine whether the Spurs won or lost each game
- Get rid of unrequired columns

Opponent	Score	Points	Rebounds	Assists	Points	Rebounds	Assists	Points	Rebounds	Assists	Points	Rebounds	Assists	Points	Rebounds	Assists
Minnesota	112	108	19	8	6	116	96	19	9	8	115	105	14	11	11	11
Portland	121	108	19	8	6	116	96	19	9	8	115	105	14	11	11	11
Los Angeles	140	142	27	12	14	116	96	19	9	8	115	105	14	11	11	11
Miami	116	96	19	9	8	115	105	14	11	11	114	104	13	10	10	10
Los Angeles	116	106	20	12	8	115	105	14	11	11	114	104	13	10	10	10
Dallas	115	105	24	11	8	114	104	13	10	10	113	103	12	9	9	9
Phoenix	120	99	25	7	7	113	103	12	9	9	112	102	11	8	8	8
New Orleans	100	99	25	12	7	112	102	11	8	8	111	101	10	7	7	7

Output: (this is less prescribed this week)

- 64 rows of data (excluding the headers)
- 13 columns (you might have different)
- One row per game
- No cells without a value

For comparison, here's [our output file](#). Don't forget to fill in our [participation tracker](#)!

Aggregation

Preview Pane

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2023: Week 1 The Data Source Bank

January 04, 2023

Code	Value	Customer
1-075	1440	
103	7930	
2-038	5030	
254	7957	
6-057	6370	
9-148	4525	
886	2324	
720	1867	
1-423	9105	
170	7808	