Nikolas Rakryan Widagdo

Questions

1. Who is the youngest and oldest player in the NBA in 2017 for each team (Tm) ?

   Firstly the relevant columns that will be used for answering the questions are selected which are "Tm","Player","Age". After that a dataframe is created to show the youngest player and oldest from each team. The dataframe is created by using the minimum and maximum function towards the age and is then grouped by their team.

2. Which player has the most minutes played (MP) in each position (Pos)?

   Firstly the relevant columns that will be used for answering the questions are selected which are"Pos","Player","MP". After that a dataframe is created to show the player with most minutes played based on each position. The dataframe is created by using the maximum function towards their minutes played and is then grouped by for each single position along with the player name.

3. Which team has the highest average total rebound percentage (TRB%), assist percentage (AST%), steal percentage (STL%), and block percentage (BLK%)?

   Firstly the relevant columns that will be used for answering the questions are selected which are "Tm","TRB%","AST%","STL%","BLK%". After that a dataframe is created to show the highest average of those columns from each team. Another dataframe is created by using idmax function towards per columns along with the team that has the highest average in those categories.

4. Who is the best player in your opinion based on his record stats? note: you can refer to variables point (PTS), assists, rebounds, or anything else. A

combination of several variables would be nice.

We use relevant column features based on the articles at https://www.nba.com/stats/alltime/ and https://fadeawayworld.net/nba/ranking-the-top-15-best-players-in-nba-history-with-combined-stats. After that we find the average values and then find the best player based on those features.

5. Which team has the best average stat record of their players? Note: you can refer to points, assists, rebounds, or anything else. A combination of several variables would be nice

Using the same features for the previous answer we can easily find the team with the best average stat record. By creating a new column consisting of the average overall value for each team, it could be searched from the dataframe which team has the best average stat record based on the newly created column.

Aspects Rated Description (Total Score: 100)

Completeness	The points will be deducted by 20 for one problem that is not done at all (Question 1 – 5). But if all is complete then there is no deduction.
Correctness for pre processing	Max points are 5. But if you fail in this stage, the rest will be wrong.
Creativity and Correctness on answering the question	- Each question has a maximum 15 point (for number 1 – 3) - Number 4 has a maximum 20 points - Number 5 has a maximum 25 points
Workflow	Here will be assessed how your story line is in presenting the results of the analysis. Max 5 points.