# Python: DataFrames

A dataframe pandas is a two-dimensional data structure that can store data of different types and their corresponding labels. Dataframes are similar to SQL tables or Excel tables.

Load into a dataframe the fx. nba.csv with NBA player data available at:

https://media.geeksforgeeks.org/wp-content/uploads/nba.csv

1. View the loaded data.
2. Get information about the dataframe, such as the number of rows, number of columns, and column names.
3. View only the variable names in this dataframe.
4. What is the size of the data set?
5. Get statistics from the dataframe's numerical columns

6. View the first rows of the data set and then the last rows.
7. Select the College column
8. Select columns Name, Position, College, and rows 15 to 20
9. View all players from Position = 'PF'.
10. View all distinct values from the Team column, and their numbers.
11. View players from Team = Los Angeles Lakers (all columns except Team).
12. View the data in reverse alphabetical order of College and decreasing Age.

13. View the data in descending order of salary.
14. Make a salary histogram.
15. Make an age boxplot.
16. Make a salary vs. age plot.
17. View the age and average salary of the players.
18. Present players for whom the age is lower than average and the salary is higher than average.

19. Get the salary variable statistics grouped by team.
20. Make a boxplot of salary vs. Team
21. Get the average salary per position

22. Make a boxplot of salary vs. Position
23. Get the statistics of the Age variable grouped by Position

24. Count number of Nas per column
25. Remove line with Name, Team, Number, Position, Age, Height, Weight: NaN
26. Presents for each dateFrame column the number of NAs and their percentage
27. Fill in College column NaN values with 'no College'
28. View the lines with Salary NaN
29. Fill in the salary NaN values with the average salary value of the respective Team/Position.
30. Count the number of Nas throughout all the dataframe
31. Save the dataframe in a csv file and an excel file.