DATA 101 Exam 1

Kamila Palys

Due: Monday 10/26 at 11:59pm

Academic Honesty Statement (fill in your name)

I, Kamila Palys, hereby affirm that I have not communicated with or gained information in any way from my classmates or anyone other than the Professor during this exam, that I have not assisted anyone else with this exam, and that all work is my own.

Load packages and data

Questions

Question 1

First, we will make a table to view the salaries of the NBA players in descending order by using the "select" and "arrange" functions to display the variables we want, in the order we want.

```
## # A tibble: 417 x 2
##    player          salary
##    <chr>           <dbl>
##  1 Kobe Bryant      25
##  2 Joe Johnson      24.9
##  3 LeBron James     23.0
##  4 Carmelo Anthony  22.9
##  5 Dwight Howard    22.4
##  6 Chris Bosh       22.2
##  7 Chris Paul       21.5
##  8 Kevin Durant     20.2
##  9 Derrick Rose     20.1
## 10 Dwyane Wade      20
## # ... with 407 more rows
```

From the table it is visible that Kobe Bryant has the highest salary of all the NBA players at $25 million.

Question 2

Now we will create a boxplot that compares the distribution of the players' salaries by position.

NBA Salaries 2015–2016 by Position
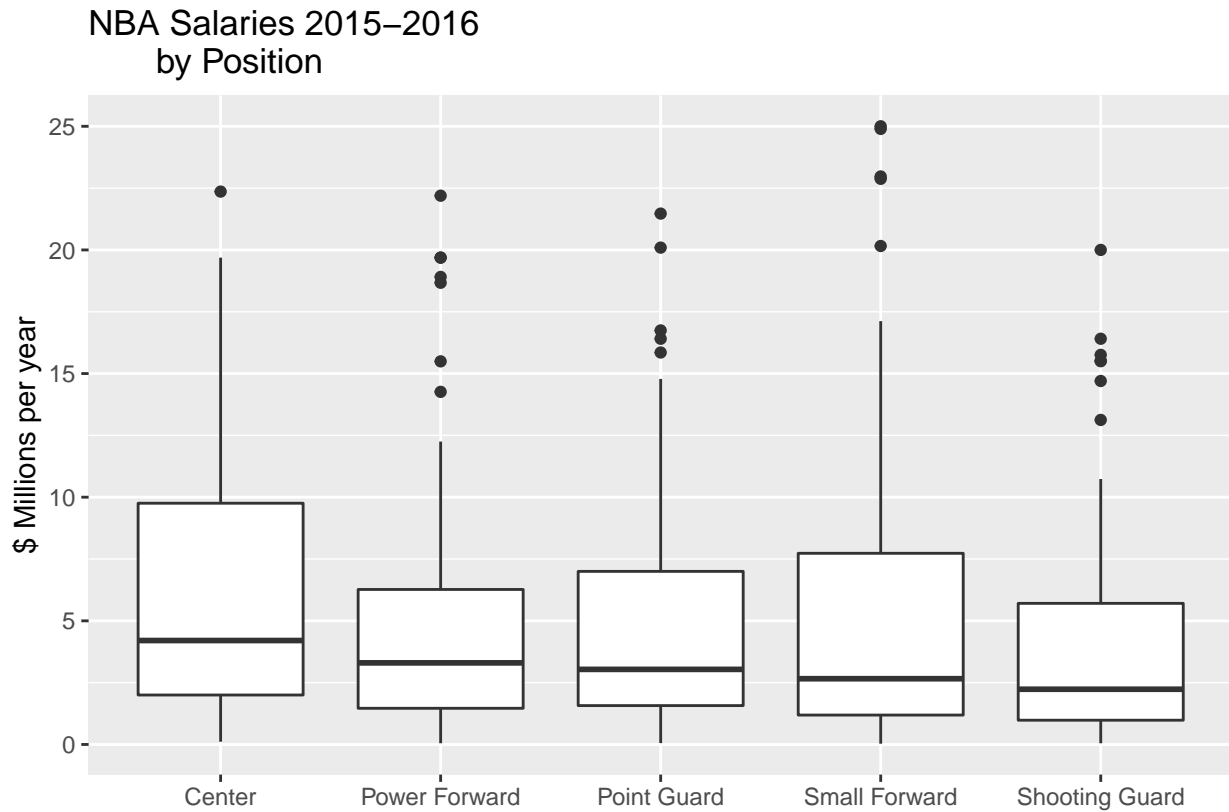
From this graph, we are able to see that the highest median salary is earned by players with the center position, while the lowest median comes from the shooting guard players. The ones who play center, however, also have a more even spread of their salaries, seeing as their interquartile range, or the middle 50%, is the largest of all the positions. There are also very little outliers in the center players' salaries, and there are several high outliers in all four of the other positions, so that is not to say that players playing a position other than center cannot earn a lot.

Question 3

[Enter code and narrative here.]

Question 4

[Enter code and narrative here.]

Question 5

[Enter code and narrative here.]

Question 6

[Enter code and narrative here.]

Question 7

[Enter code and narrative here.]

Question 8

[Enter code and narrative here.]

Question 9

[Enter code and narrative here.]

Question 10

[Enter code and narrative here.]