Q.3.

```
library(dplyr)
mydata <- read.csv('cricket.csv')
mydata
names(mydata)
dim(mydata)
Str(mydata)
Summary(mydata)
mysubdata <- select(mydata, Player, Mat, Runs, Ave, SR, x4s, x6s)
mysubdata
myascdata <- arrange(mysubdata, desc(Ave))
myascdata
myMatdata <- subset(myascdata, Mat > 60)
myMatdata
top10 <- head(myMatdata, 10)
top10
barplot(top10$Ave, xlab = 'Player', ylab = 'Ave', main = 'Batting
Average', names.arg = top10$Player, col = 'blue')
barplot(top$SR, horiz = TRUE, xlab = 'SR', ylab = 'Player',
main = 'Stike Rate', names.arg = top10$Player, col = 'green')
myseldata <- select(top10, Player, Ave, SR)
mymatrix <- data.matrix(myseldata)
mymatrixtrans <- t(mymatrix)
barplot(mymatrixtrans, xlab = 'Player', ylab = 'SR and AVG',
col = c('red', 'blue'), names.arg = myseldata$Player, pch=30)
legend('topright', c('Ave', 'SR'), fill = c('blue', 'red'))
Plot(top10$Mat, top10$Runs, xlab = 'matches', ylab = 'runs',
col = 'green')
```

```
pie(top10$Runs, top10$Player, radius = 1, col = c('red', 'green',
'black', 'yellow', 'Pink', 'blue', 'brown', 'white', 'orange',
'Violet'))
```

Q.4. Descriptive Statistics of above data

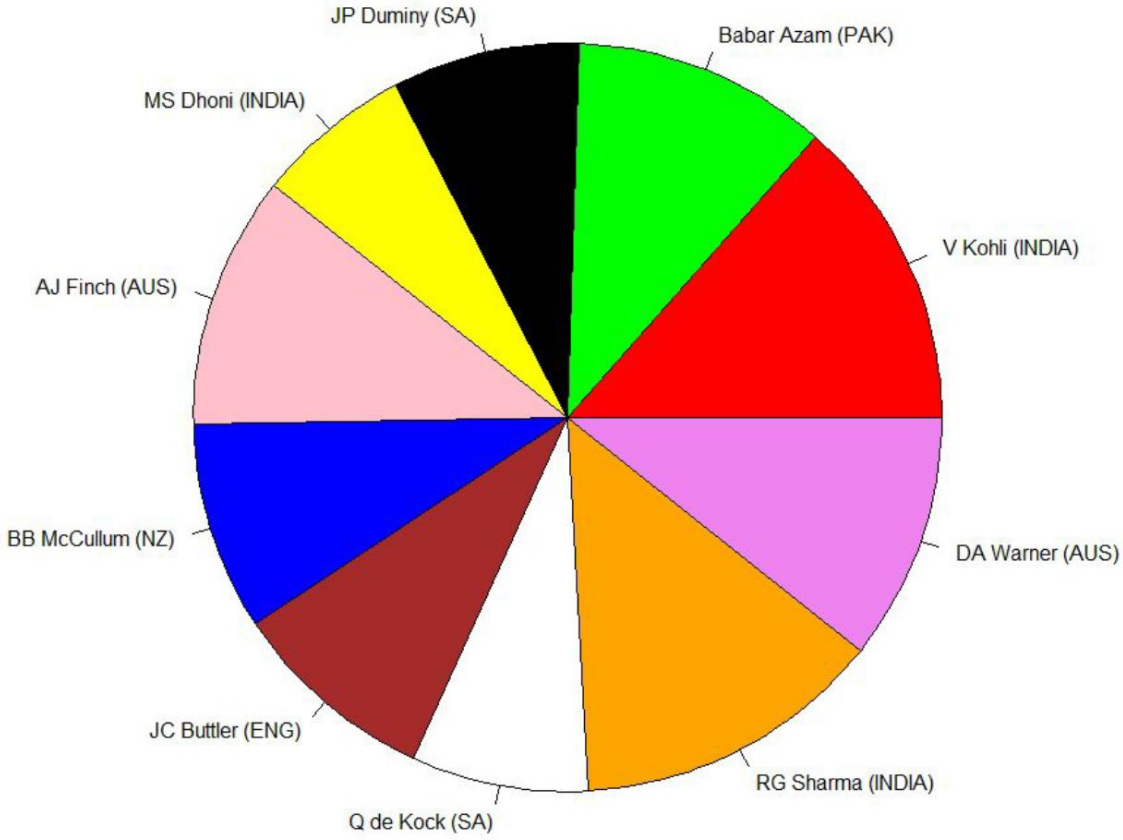
Mean, Median of Average and Strike rate of Players

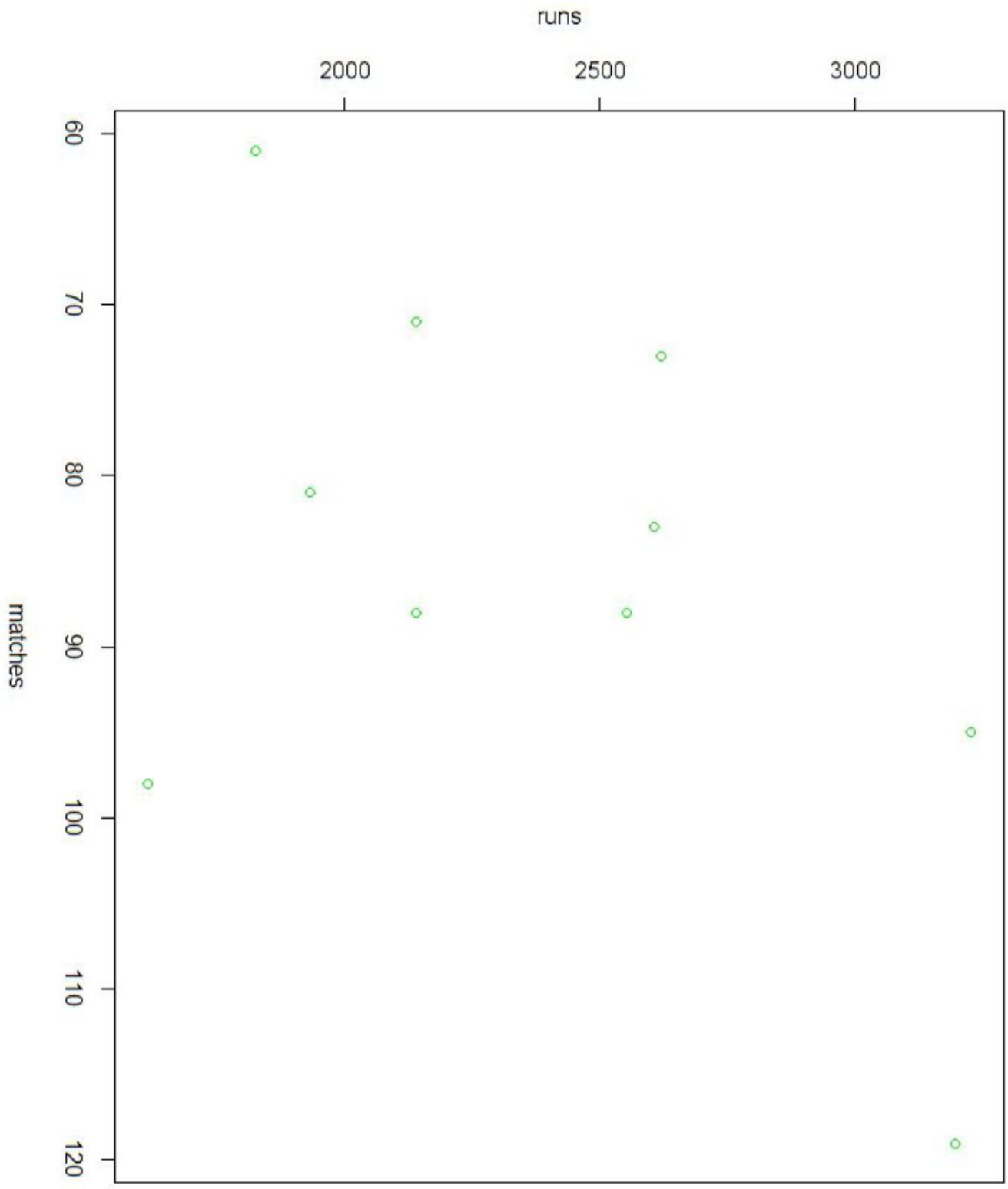
Average	Strike Rate
Mean- 30.02	Mean- 131.5
Median- 29.27	Median- 132.6

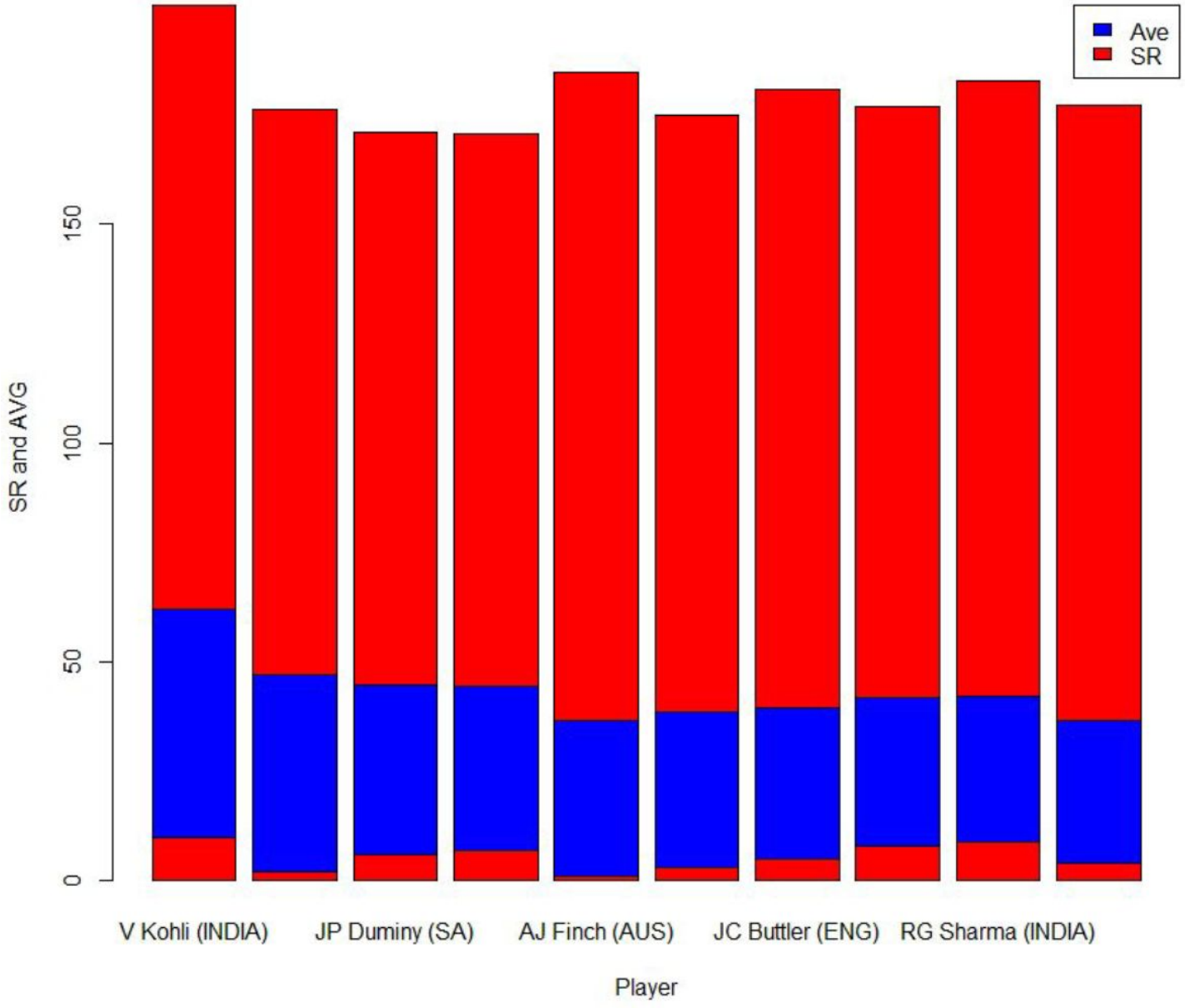
Inferential statistics of above data

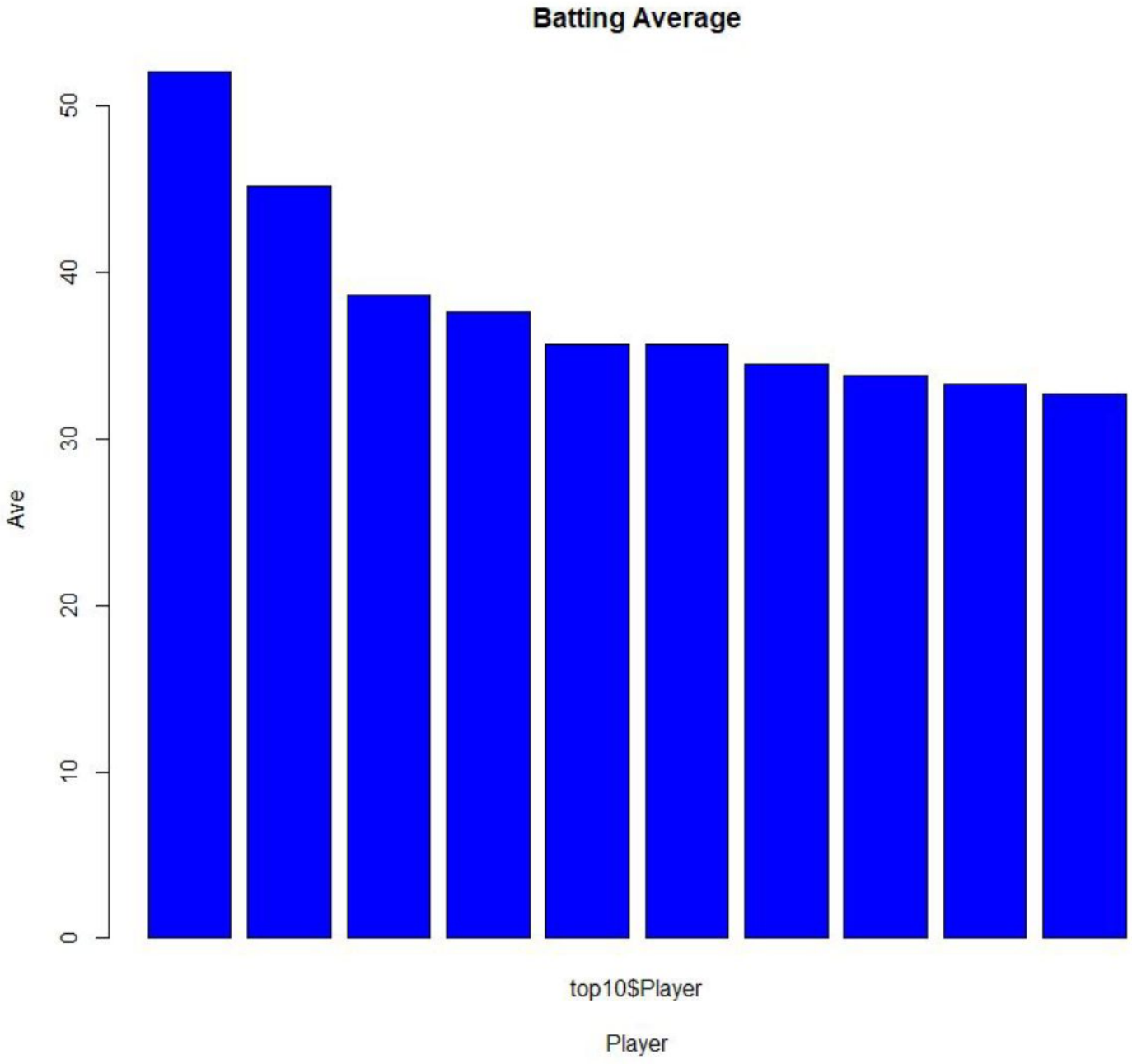
- from the Analysis of the data we can conclude that with the increase in matches Average of the player decreare, so we can't pick best player with just looking at his Average. So we put a condition that the player must play 60 matches atleast.

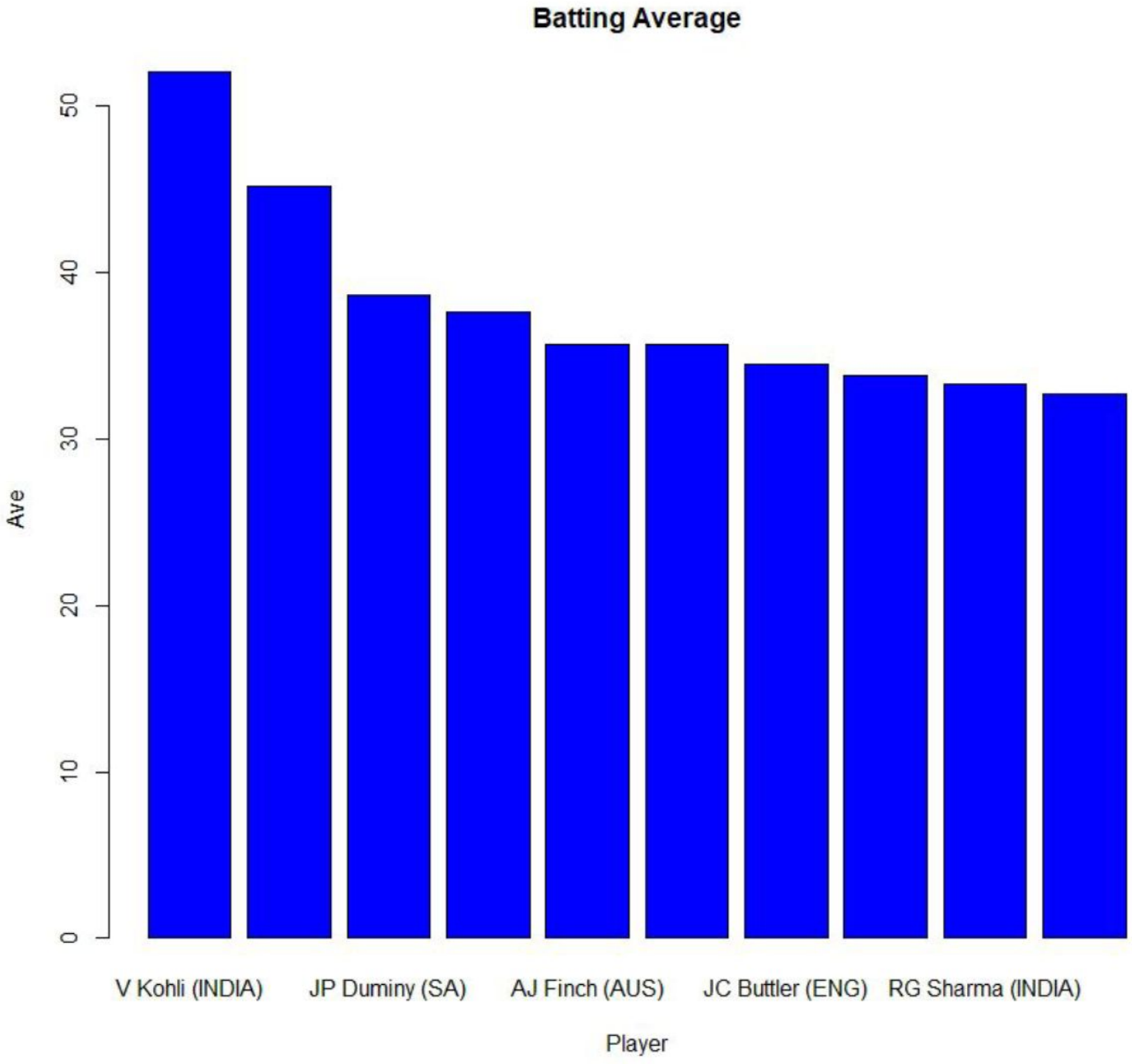
Also from the data it is clear that as no. of matches increares some player with better average is not necessarily have good Strike Rate.
So we have to look StrikeRate and Average seprately.

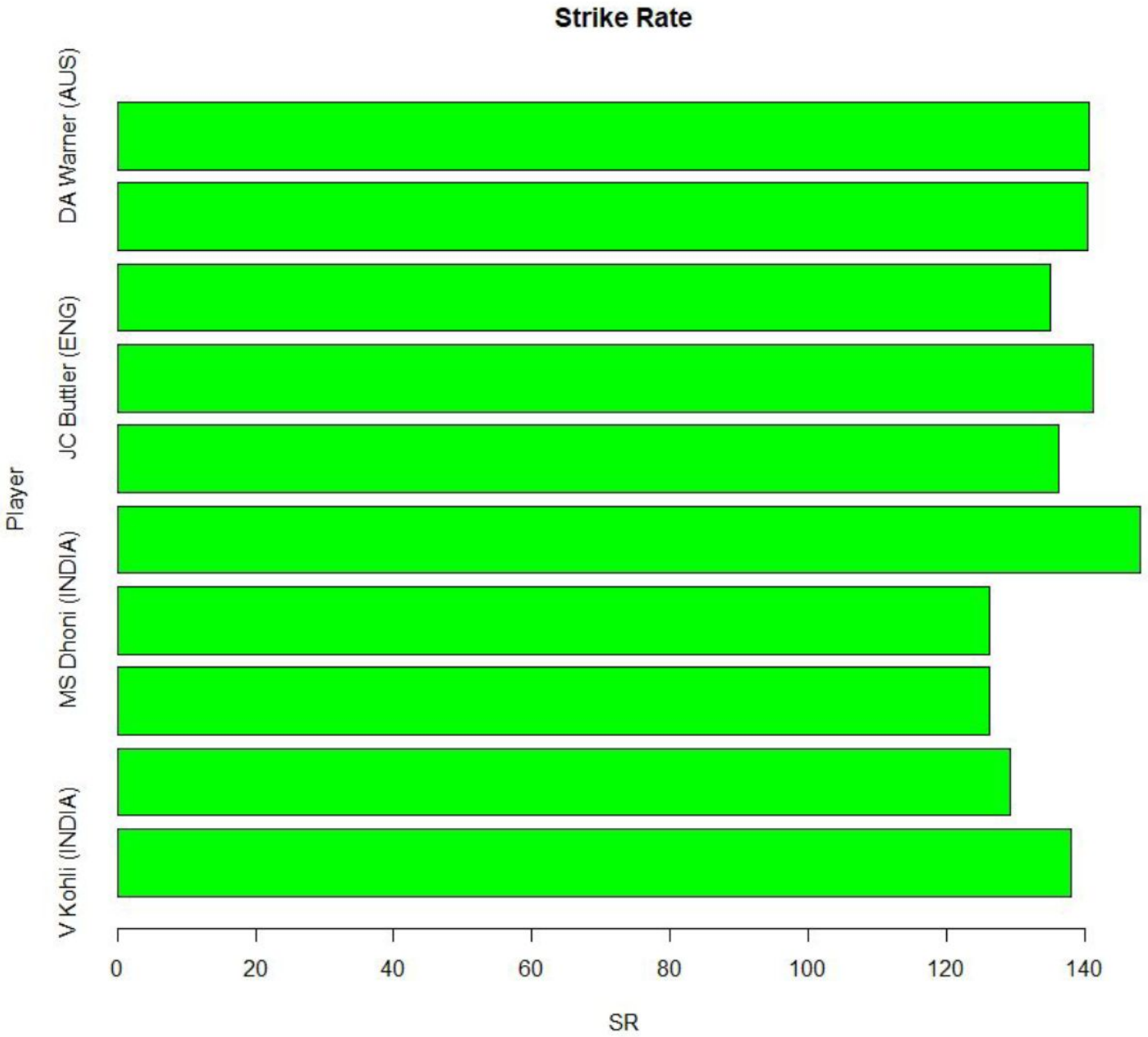

JP Duminy (SA)
Babar Azam (PAK)
MS Dhoni (INDIA)
V Kohli (INDIA)
AJ Finch (AUS)
BB McCullum (NZ)
DA Warner (AUS)
JC Buttler (ENG)
RG Sharma (INDIA)
Q de Kock (SA)


runs
2000
2500
3000
matches
60
70
80
90
100
110
120


Ave
SR
SR and AVG
0
50
100
150
V Kohli (INDIA)
JP Duminy (SA)
AJ Finch (AUS)
JC Buttler (ENG)
RG Sharma (INDIA)
Player


Batting Average
Ave
0
10
20
30
40
50
top10$Player
Player


Batting Average
Ave
0
10
20
30
40
50
V Kohli (INDIA)
JP Duminy (SA)
AJ Finch (AUS)
JC Buttler (ENG)
RG Sharma (INDIA)
Player


Strike Rate
Player
DA Warner (AUS)
JC Buttler (ENG)
MS Dhoni (INDIA)
V Kohli (INDIA)
0
20
40
60
80
100
120
140
SR