IPL 2008-2017 DATASET

Dataset(matches.csv) collected from Kaggle website

linked phrase

Dataset Description:-

No. of columns- 18

No. of Rows- 636

Dataset contains Result of Every Match played in the history of IPL from 2008 to 2017.

Columns Description:-

- 1- In which city Match was played.(Column no. 3)
- 2- Date of Match.(Column no. 4)
- 3- Which two teams played the match (Column no 5 and 6)
- 4- Which Team Won the Toss(Column no 7)
- 5- Team choosed batting or fielding after winning toss(Column no 8)
- 6- Which Match was Tie, Normal and No result.(Column no 9)
- 7- Match was affected by weather or not(Column no 10)
- 8- Which Team Won the Match(Column no 11)
- 9- By how many runs or wickets team won the game(Column no 12 and 13)
- 10-Which player got the player of the Match(Column no 14)
- 11-In which Ground Match was played.(Column no 15)
- 12-Which two umpires featured in the match(Column no 16,17,and 18)

Questions that we ask from the dataset

- Q1- How many matches a Team won in a single season and also in entire IPL
- Q2- How many Toss a Team won in a single season and also in entire IPL
- Q3- How many were Normal, Tied, and No result Matches.
- Q4- How many matches were affected by weather.
- Q5- Which Player won most Man of the Player award.
- Q6- How many Matches in which Team batting first won.

- Q7- How many Matches in which Team batting Second won.
- Q8- Which Team Won the IPL
- Q9- Which is Most Consistent Team of IPL
- Q10-Who is Most Consistent Player of IPL
- Q11-Average Winning Runs
- Q12-Average Winning Wickets

Pre-Processing Done on the dataset

- 1- **Removal of unnecessary Variables** (Sr no, Date, Venue) because these variables will not be used to infer anything.
- 2- Converting Categorical Variables to Numerical variables (Toss decision(Field/Bat) and Result(Normal/Tie/NoResult))
- 3- Filtering data on the basis of seasons
- 4- Missing Value Prediction:-

There is a entry missing in Umpire1 and Umpire2. We calculated The Most featured Umprire of all matches and assigned him to the missing value.

After Pre-Processing

We get the dataset which have no missing values, no categorical variables, smaller datasets to get better indferences, and dataset with only necessary variables.

Ways to **address the questions** asked above.

Ans1- To show how many matches a team won in a season, we have taken **sum of unique values** from the column **'Winner'** from the dataset named **'dataset_2013'**. Similarly to show how many matches a team won in the history of IPL we have taken sum of unique values from the column 'Winner' from the original dataset(named 'dataset').

Its resultant dataset is matches_won_by_a_team

Ans2-To analyse which team have been lucky in the matter of toss, we have taken sum of unique values from the column 'Toss' from both the dataset named, 'dataset 2013' and 'dataset'.

We have made a separate data frame(**Toss_Won_by_a_team**) showing the result.

Ans3- There is a column 'Result' stating which match was a normal match, no result match or a tied match. To see how many matches were Normal, tie or no result match we summed up the data from this column and made a separate

dataframe which shows how many matches resulted in a normal/tie/No result match both in a season and in an entire IPL.

Dataframe- 'Normal_tie and Normal_and_tie_and_noresult'

Ans4- Column "dl_applied" shows the whether D/L Method was used in the match or not. So we calculated in how many matched D/L Method was used by adding the values of the column. 0 represents D/L Method was not applied and 1 represents D/L Method was applied.

Ans5- We infered from the column "player_of_the_match", which player won the Man of the Match award MAXIMUM times. We calculated sum of the unique players from the column and saved it into a new dataframe named, ""Man of the match won by a player

Ans6 and Ans7- From the column, "win_by_runs and win_by_wickets" we calculated how many matches were won by the side batting first and by the side battin second. We took the SUM of only NON ZERO ENTRIES from both the columns and stored in two dataframes, "Matches_Won_batting_first" and "Matches_Won_batting_second"

Ans8- The Team which won the maximum number of matches should be the winner of IPL. So from the first Question, we extract the **entry corressponding to MAXIMUM** no. of Matches.

Ans9- Most Consistent Team is that team which won the maximum number of matches in the history of IPL. So again we took the sum of unique entries from the column **Winner** of original dataset.

Ans10- We choosed the most consistent player of the IPL as the one who won the maximum number of Man of the Match award.

Ans11 and Ans12- From win_by_runs column and win_by_wickets column we can get the average winning runs and average winning wickets. We have also shown **BOX PLOT** of both average winning runs and average winning wickets.

Code and Output:-

```
#Import the dataset
dataset<- read.csv('IDS.csv')</pre>
#----PRE PROCESSING START-----
#Remove unnecessary variables
dataset<-dataset[,-c(1,4,15)]
#Encoding Categorical Data
dataset$toss_decision = factor(dataset$toss_decision,
                                levels = c('field', 'bat'),
                                labels = c(1, 2))
dataset$result = factor(dataset$result,
                         levels = c('normal', 'tie','no result'),
                         labels = c(1, 2, 3))
#Season wise dataset
#install.package('dplyr')
library (dplyr)
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
      intersect, setdiff, setequal, union
dataset 2017<-filter(dataset, season==2017)</pre>
dataset 2016<-filter(dataset,season==2016)
dataset 2015<-filter(dataset, season==2015)
dataset_2014<-filter(dataset,season==2014)
dataset_2013<-filter(dataset, season==2013)</pre>
dataset 2012<-filter(dataset, season==2012)
dataset 2011<-filter(dataset, season==2011)</pre>
dataset_2010<-filter(dataset, season==2010)</pre>
dataset_2009<-filter(dataset, season==2009)</pre>
dataset_2008<-filter(dataset, season==2008)</pre>
#Missing value prediction
#No umpire is assigned to a match played between royal challenger banglore and delhi daredevil in IPL 2017
#First we will assign NA to missing value then
#We will assign those two umpires which are featured most in the IPL 2017
#NA to missing values
library (zoo)
```

Attaching package: 'zoo'

```
## The following objects are masked from 'package:base':
##
\#\,\#
              as.Date, as.Date.numeric
dataset 2017$umpire1[dataset 2017$umpire1 == ""] <- NA</pre>
dataset_2017$umpire2[dataset_2017$umpire2 == ""] <- NA</pre>
#finding most featured umpires
umpire1_appearance<- aggregate(data.frame(No_of_match = dataset_2017$umpire1), list(Umpire1 = dataset_2017$u
mpirel), length)
max match<-which.max(umpire1_appearance$No_of match)</pre>
umpire1<-umpire1_appearance[4,1]</pre>
umpire2\_appearance <- \ aggregate (data.frame (No\_of\_match = dataset\_2017 \\ \$ umpire2), \ list (Umpire2 = dataset\_2017 \\ \$ umpire2 = dataset\_2017 \\ \$ umpi
mpire2), length)
max match2<-which.max(umpire2_appearance$No_of_match)</pre>
umpire2<-umpire2 appearance[10,1]</pre>
#Replacing NA with most featured umpires(i.e umpire1 and umpire2)
dataset_2017$umpire1[is.na(dataset_2017$umpire1)]<-umpire1</pre>
dataset 2017$umpire2[is.na(dataset 2017$umpire2)]<-umpire2</pre>
#----PRE-PROCESSING END-----
#INFERENCES from a particular season of IPL 2013 dataset
#1 Total number of matches won by a team in entire season
matches won_by_a_team<- aggregate(data.frame(Matches_Won = dataset_2013$winner), list(Team = dataset_2013$wi</pre>
nner), length)
matches won by a team<-matches won by a team[rev(order(matches won by a team$Matches Won)),]
matches_won_by_a_team
##
                                                         Team Matches Won
                                Mumbai Indians
## 5
                                                                                     1.3
## 1
                       Chennai Super Kings
                                                                                     12
## 7
                             Rajasthan Royals
                                                                                    11
## 9
                       Sunrisers Hyderabad
                                                                                    10
## 8 Royal Challengers Bangalore
## 3
                       Kings XI Punjab
## 4
                      Kolkata Knight Riders
## 6
                                  Pune Warriors
                                                                                      4
                               Delhi Daredevils
## 2
#2 Total number of Toss win by a team in entire season
toss_won_by_a_team<- aggregate(data.frame(Toss_Won = dataset_2013$toss_winner), list(Team = dataset_2013$toss_winner)
s_winner), length)
toss_won_by_a_team<-toss_won_by_a_team[rev(order(toss_won_by_a_team$Toss_Won)),]
toss won by a team
##
                                                       Team Toss Won
## 5
                                 Mumbai Indians 12
## 4
                   Kolkata Knight Riders
## 7
                             Rajasthan Royals
                                                                               11
## 6
                                    Pune Warriors
## 1
                         Chennai Super Kings
                                                                                 8
## 9
                          Sunrisers Hyderabad
## 3
                               Kings XI Punjab
## 8 Royal Challengers Bangalore
## 2
                              Delhi Daredevils
#3 Number of normal and Tie matches
```

Normal and tie<- aggregate(data.frame(Number of matches = dataset 2013\$result), list(Result = dataset 2013\$r

esult), length)
Normal_and_tie

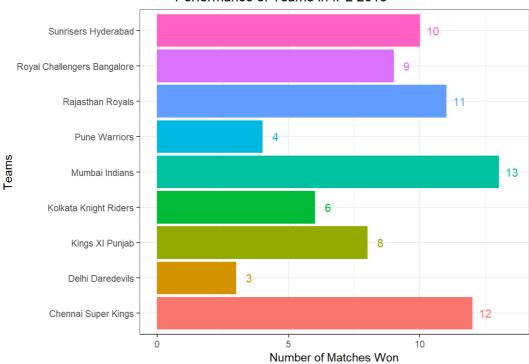
```
##
        Result Number_of_matches
## 1 1
## 2
                        2
                                                                   2
#4 Number of matches affected by weather
dl_applied<- aggregate(data.frame(Number_of_matches = dataset_2013$dl_applied), list(dl_applied = dataset_20
13$dl_applied), length)
dl_applied
## dl_applied Number_of_matches
                       Ω
## 1
#5 Most number of Player of the match
Man_of_the_match_won_by_a_player<- aggregate(data.frame(MOM_won = dataset_2013$player_of_match), list(Player
= dataset_2013$player_of_match), length)
{\tt Man\_of\_the\_match\_won\_by\_a\_player} \\ {\tt Corder(Man\_of\_the\_match\_won\_by\_a\_player[rev(order(Man\_of\_the\_match\_won\_by\_a\_player]])} \\ {\tt Corder(Man\_of\_the\_match\_won\_by\_a\_player]} \\ {\tt Corder(Man\_of\_the\_match\_won\_by\_a\_player)} \\ {\tt Corder(Man\_of\_the\_won\_by\_a\_player)} \\ {\tt Corder(Man\_of\_the\_w
r$MOM won)),]
{\tt Man\_of\_the\_match\_won\_by\_a\_player}
##
                             Player MOM_won
## 27
                      MEK Hussey
## 1
                        A Mishra
## 44
                             V Kohli
## 30
                           MS Dhoni
## 22
                     KA Pollard
                      DA Miller
## 10
                                                                   3
## 9
                           CH Gayle
                                                                   .3
## 5
                         AM Rahane
                                                                   3
## 37
                             SK Raina
                                                                   2
                         RG Sharma
## 36
                         RA Jadeja
## 35
## 32
                            PA Patel
                      MG Johnson
## 28
## 21
                    JP Faulkner
## 20
                        JH Kallis
## 15
                         GH Vihari
## 14
                        G Gambhir
## 13
                           DR Smith
## 11
                        DA Warner
                        YK Pathan
## 46
                                                                   1
                           V Sehwag
## 45
                                                                   1
## 43
                           SV Samson
                    SR Watson
## 42
                   SR Tendulkar
## 41
                    SPD Smith
## 40
## 39
                         SP Narine
                                                                1
                      SK Trivedi
## 38
                                                                1
## 34 R Vinay Kumar
## 33 R Dravid
## 31
                             MS Gony
## 29
                        MK Pandey
                                                                1
                            M Vohra
## 26
                                                                1
## 25
                        LJ Wright
                                                                1
## 24
                           KK Cooper
                                                                   1
                         KD Karthik
## 23
## 19
                       JD Unadkat
## 18
                           I Sharma
## 17 Harmeet Singh
## 16 Harbhajan Singh
## 12 DJG Sammy
                                                                 1
## 8
                           BJ Hodge
                                                                1
## 7
             Azhar Mahmood
## 6
                            AP Tare
## 4
                             AJ Finch
## 3 AC Gilchrist
                                                                  1
```

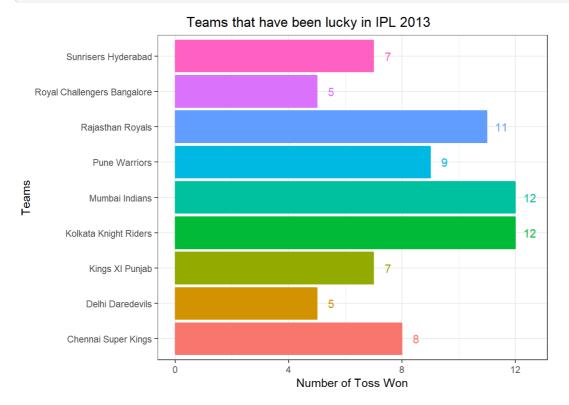
2 AB de Villiers

```
#6 Number of matches won batting first
Matches won batting first <- as.data.frame(length(which(dataset 2013$win by runs != 0)))
colnames(Matches_won_batting_first)[1]<-"Matches_Won_Batting_First"</pre>
Matches_won_batting_first
## Matches Won Batting First
## 1
#7 Number of matches won batting Second
Matches won batting Second <- as.data.frame(length(which(dataset 2013$win by wickets != 0)))
colnames (Matches_won_batting_Second) [1] <-"Matches_Won_Batting_Second"</pre>
Batting First Second <- merge (Matches won batting first, Matches won batting Second)
Batting First Second$Tied Match<-2
Matches won batting Second
## Matches_Won_Batting_Second
## 1
#8 Winner of IPL 2013
Winning_Team<-as.data.frame(matches_won_by_a_team[which.max(matches_won_by_a_team$Matches_Won),1])
colnames(Winning_Team)[1]<-"Winner_IPL"</pre>
Winning Team
        Winner IPL
## 1 Mumbai Indians
#Visualisation for IPL 2013
library (ggplot2)
plot1<-ggplot(data=matches_won_by_a_team, aes(x=Team, y=Matches_Won,color=Team,fill=Team,labels=Matches_Won)
 geom_col()+
 ggtitle("Performance of Teams in IPL 2013")+
 xlab("Teams") + ylab("Number of Matches Won") +
  theme_bw() + theme(legend.position = "none") +
  theme(plot.title = element_text(hjust = 0.2))+
  geom_text(aes(x = Team,
                y = Matches_Won + 0.5,
                label = round(Matches_Won, 2)))+
  coord_flip()
```

plot1

Performance of Teams in IPL 2013

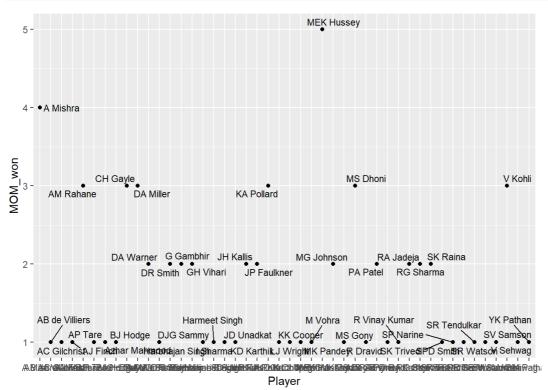




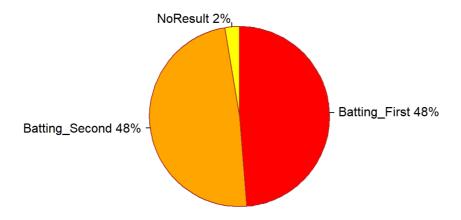
```
library (ggplot2)
library (ggrepel)

plot3<-ggplot (Man_of_the_match_won_by_a_player, aes(x=Player, y=MOM_won)) +
    geom_point()+
    geom_text_repel(aes(Player, MOM_won, label = Player), size = 3)

plot3</pre>
```



Number of Matches won Batting First and Second



```
plot4
```

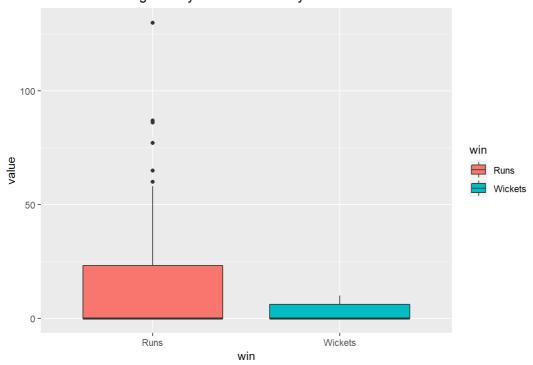
```
## NULL
```

```
a = data.frame(win="Runs", value = dataset_2013$win_by_runs)
b = data.frame(win = "Wickets", value = dataset_2013$win_by_wickets)
plot.data = rbind(a,b)

plot5<-ggplot(plot.data, aes(x=win, y=value, fill=win)) +
    geom_boxplot()+
    ggtitle("Box Plot Showing Win by Runs and Win by Wickets Statistics in IPL 2013")

plot5</pre>
```

Box Plot Showing Win by Runs and Win by Wickets Statistics in IPL 2013



```
Min. 1st Qu. Median Mean 3rd Qu. Max.
                  0.00 16.33 23.25 130.00
##
     0.00 0.00
summary(dataset_2013$win_by_wickets)
    Min. 1st Qu. Median Mean 3rd Qu.
                                        Max.
    0.000 0.000 0.000 2.987 6.000 10.000
##
#Inferences from all seasons of IPL.
#1. Most consistent Team in the history of IPL
most consistent team<- aggregate(data.frame(Matches Won = dataset$winner), list(Team = dataset$winner), leng</pre>
most_match<-which.max(most_consistent_team$Matches_Won)</pre>
Team<-as.data.frame(most_consistent_team[9,1])</pre>
colnames(Team)[1]<-"Most_Consistent_Team"</pre>
most consistent team<-most consistent team[-1,]</pre>
most consistent team
                         Team Matches Won
## 9
             Mumbai Indians
## 2
           Chennai Super Kings
## 8 Kolkata Knight Riders
                                      77
## 14 Royal Challengers Bangalore
                                      73
                                      70
## 6
               Kings XI Punjab
## 11
                                      63
              Rajasthan Royals
## 4
              Delhi Daredevils
                                       62
## 15
           Sunrisers Hyderabad
                                       42
## 3
              Deccan Chargers
                                      29
## 5
                 Gujarat Lions
                                       13
                                      12
                 Pune Warriors
## 10
                                      10
## 12
        Rising Pune Supergiant
## 7
          Kochi Tuskers Kerala
                                       6
## 13 Rising Pune Supergiants
#2. Most consistent Player in the history of IPL
most_consistent_player<- aggregate(data.frame(MOM_Won = dataset$player_of_match), list(Player = dataset$play</pre>
er of match), length)
most_mom<-which.max(most_consistent_player$MOM_Won)</pre>
Player<-as.data.frame(most_consistent_player[33,1])</pre>
colnames(Player)[1]<-"Most_Consistent_Player"</pre>
most_consistent_player<-most_consistent_player[-1,]</pre>
\verb|most_consistent_player<-most_consistent_player[rev(order(most_consistent_player$MOM_Won)),]|
{\tt most\_consistent\_player}
##
              Player MOM_Won
## 33
             CH Gayle 18
## 199
             YK Pathan
                           16
          DA Warner
## 40
                           1.5
      AB de Villiers
## 10
                           15
        SK Raina
RG Sharma
## 173
                          14
## 151
                          14
             MS Dhoni
## 124
                          13
## 53
           G Gambhir
                          1.3
          MEK Hussey
## 108
           AM Rahane
## 19
            V Sehwag
## 194
                          11
## 193
             V Kohli
                          11
             DR Smith
                          11
## 49
## 184
           SR Watson
                           1.0
            JH Kallis
## 76
                           10
## 170
             SE Marsh
           KA Pollard
## 80
                            9
## 4
             A Mishra
                           9
## 183
         SR Tendulkar
                            8
## 156
          RV Uthappa
                            7
## 147
            RA Jadeja
```

| ## 22 | AT Rayudu | 7 |
|--|---|------------------|
| ## 12 | AC Gilchrist | 7 |
| | | |
| ## 192 | UT Yadav | 6 |
| ## 181 | SP Narine | 6 |
| ## 101 | M Vijay | 6 |
| ## 59 | Harbhajan Singh | 6 |
| ## 30 | BJ Hodge | 6 |
| ## 16 | AD Russell | 6 |
| | | |
| | A Nehra | 6 |
| ## 201 | Yuvraj Singh | 5 |
| ## 176 | SL Malinga | 5 |
| ## 169 | SC Ganguly | 5 |
| ## 166 | Sandeep Sharma | 5 |
| ## 81 | KC Sangakkara | 5 |
| ## 79 | JP Faulkner | 5 |
| ## 58 | GJ Maxwell | 5 |
| ## 50 | | 5 |
| | DW Steyn | |
| ## 48 | DPMD Jayawardene | 5 |
| ## 28 | BB McCullum | 5 |
| ## 24 | B Kumar | 5 |
| ## 17 | AJ Finch | 5 |
| ## 182 | SPD Smith | 4 |
| ## 175 | SK Warne | 4 |
| ## 134 | PA Patel | 4 |
| ## 129 | NM Coulter-Nile | 4 |
| | | |
| ## 115 | ML Hayden | 4 |
| ## 113 | MK Pandey | 4 |
| ## 83 | KH Pandya | 4 |
| ## 82 | KD Karthik | 4 |
| ## 78 | JP Duminy | 4 |
| ## 73 | JD Unadkat | 4 |
| ## 21 | AR Patel | 4 |
| | | |
| ## 197 | WP Saha | 3 |
| ## 187 | SV Samson | 3 |
| ## 146 | R Vinay Kumar | 3 |
| ## 137 | PP Chawla | 3 |
| ## 114 | MK Tiwary | 3 |
| ## 105 | Mandeep Singh | 3 |
| ## 102 | M Vohra | 3 |
| ## 96 | LRPL Taylor | 3 |
| | - | |
| ## 94 | LMP Simmons | 3 |
| ## 91 | L Balaji | 3 |
| ## 88 | KP Pietersen | 3 |
| ## 85 | KK Nair | 3 |
| ## 39 | DA Miller | 3 |
| ## 35 | CJ Anderson | 3 |
| ## 27 | BA Stokes | 3 |
| ## 7 | A Symonds | 3 |
| | = | 3 |
| ## 3 | A Kumble | |
| ## 186 | ST Jayasuriya | 2 |
| ## 185 | SS Iyer | 2 |
| ## 179 | Sohail Tanvir | 2 |
| ## 178 | SM Pollock | 2 |
| ## 174 | SK Trivedi | 2 |
| ## 171 | Shakib Al Hasan | 2 |
| ## 160 | S Dhawan | 2 |
| | | 2 |
| | RR Pant | |
| ## 149 | Rashid Khan | 2 |
| ## 145 | R Sharma | 2 |
| ## 143 | R Dravid | 2 |
| ## 139 | PV Tambe | 2 |
| ## 135 | PC Valthaty | 2 |
| ## 132 | P Negi | 2 |
| ## 131 | P Kumar | 2 |
| | | 2 |
| ## 128 | N Rana | |
| ## 127 | MV Boucher | 2 |
| | | |
| ## 121 | MP Stoinis | 2 |
| | MP Stoinis MM Sharma | 2 |
| ## 121 | | |
| ## 121 ## 117 | MM Sharma | 2 |
| ## 121 ## 117 ## 116 | MM Sharma MM Patel | 2 |
| ## 121 ## 117 ## 116 ## 112 ## 110 | MM Sharma MM Patel MJ McClenaghan MG Johnson | 2 2 2 2 |
| ## 121 ## 117 ## 116 ## 112 | MM Sharma MM Patel MJ McClenaghan | 2 2 2 |

| ## 99 M Muralitharan | | | | |
|--|------|----|----------------|---|
| ## 86 | ## | 99 | M Muralitharan | 2 |
| ## 70 | ## | 98 | M Morkel | 2 |
| ## 67 | ## | 86 | KM Jadhav | 2 |
| ## 66 | ## | 70 | JA Morkel | 2 |
| ## 65 | ## | 67 | Iqbal Abdulla | 2 |
| ## 63 | ## | 66 | IK Pathan | 2 |
| ## 62 | ## | 65 | I Sharma | 2 |
| ## 60 | ## | 63 | HM Amla | 2 |
| ## 56 GH Vihari 2 ## 54 GC Smith 2 ## 44 DJ Hussey 2 ## 44 DJ Bravo 2 ## 41 DE Bollinger 2 ## 34 CH Morris 2 ## 32 CA Lynn 2 ## 31 BW Hilfenhaus 2 ## 25 B Lee 2 ## 23 Azhar Mahmood 2 ## 18 AJ Tye 2 ## 11 AB Dinda 2 ## 200 YS Chahal 1 ## 198 WPUJC Vaas 1 ## 198 WPUJC Vaas 1 ## 199 WA Aaron 1 ## 191 Umar Gul 1 ## 190 TM Dilshan 1 ## 189 TL Suman 1 ## 189 TL Suman 1 ## 180 SP Goswami 1 ## 177 SM Katich 1 ## 172 Shoaib Akhtar 1 ## 165 SA Yadav 1 ## 165 SA Yadav 1 ## 165 SA Yadav 1 ## 166 S SA Snodkar 1 ## 167 SB Jakati 1 ## 168 SB Wagh 1 ## 169 S Sadrinath 1 ## 161 S Nadeem 1 ## 159 S Badrinath 1 ## 150 RE Levi 1 ## 150 RE Levi 1 ## 151 RS Bopara 1 ## 152 RJ Harris 1 ## 154 RA STIPATH 1 ## 155 RS Bopara 1 ## 156 RS Anirudha 1 ## 157 S Anirudha 1 ## 158 RA STIPATH 1 ## 159 RA SHORL 1 ## 150 RE Levi 1 ## 150 RE Levi 1 ## 150 RE Levi 1 ## 144 R ASHWIN 1 ## 155 RS Bopara 1 ## 150 RE Levi 1 ## 141 R Ashwin 1 ## 152 RJ Harris 1 ## 154 RA SHORL 1 ## 155 RS Bopara 1 ## 156 MUSTATISH 1 ## 157 S ANIRUDH 1 ## 158 RA STIPATH 1 ## 159 RE Levi 1 ## 150 MOHAMMAR 1 ## 150 MOHAMMAR 1 ## 151 MS GONY 1 ## 152 MS GONY 1 ## 133 P Parameswaran 1 ## 140 Q de Kock 1 ## 131 PARAMSWARAN 1 ## 140 RA SHORL 1 ## 140 MOHAMMAR 1 ## 140 MOHAMAR 1 ## 120 MOHAMMAR 1 ## 121 MR MARSH 1 ## 122 MR MARSH 1 ## 123 MS Bisla 1 ## 124 MR ASHARC 1 ## 125 MS GONY 1 ## 136 MS ASHARC 1 ## 137 MS ASHARC 1 ## 148 MN SAMUELS 1 ## 149 MOHAMMAR SHARC 1 ## 140 MA STARC 1 | ## | 62 | HH Pandya | 2 |
| ## 56 | ## | 60 | Harmeet Singh | 2 |
| ## 54 | ## | 56 | ~ | 2 |
| ## 52 | ## | 54 | | 2 |
| ## 44 DJ Hussey ## 42 DJ Bravo ## 34 CH Morris ## 33 BW Hilfenhaus ## 25 B Lee ## 23 Azhar Mahmood ## 18 AJ Tye ## 11 AB Dinda ## 200 YS Chahal ## 198 WPUJC Vaas ## 196 Washington Sundar ## 195 VR Aaron ## 191 Umar Gul ## 190 TM Dilshan ## 180 SP Goswami ## 180 SP Goswami ## 177 SM Katich ## 172 Shoaib Akhtar ## 168 SB Wagh ## 167 SB Jakati ## 164 SA Asnodkar ## 165 SA Yadav ## 165 SA Yadav ## 161 S Nadeem ## 159 S Badrinath ## 162 S Sohal ## 159 S Badrinath ## 150 RS Dadem ## 155 RS Bopara ## 150 RE Levi ## 150 RE Levi ## 150 RE Levi ## 144 RA McLaren ## 148 RA Tripathi ## 150 RE Levi ## 148 RA Tripathi ## 144 R McLaren ## 144 R McLaren ## 144 R McLaren ## 145 MS Ashowin ## 150 RE Levi ## 141 R Ashwin ## 144 R McLaren ## 145 MS AShowin ## 150 RE Levi ## 141 R Ashwin ## 142 R Bhatia ## 143 PP Ojha ## 144 R McLaren ## 145 MS AShowin ## 140 Q de Kock ## 133 PP Collingwood ## 130 NV Ojha ## 141 R Ashwin ## 142 R Bhatia ## 144 R McLaren ## 145 MS AShowin ## 140 MS ASHOWIN # | ## | 52 | | |
| ## 42 | | | | |
| ## 41 DE Bollinger ## 34 CH Morris 2 ## 32 CA Lynn ## 31 BW Hilfenhaus ## 25 B Lee ## 23 Azhar Mahmood 2 ## 18 AJ Tye ## 11 AB Dinda ## 202 Z Khan ## 198 WPUJC Vaas ## 196 Washington Sundar ## 191 Umar Gul ## 190 TM Dilshan ## 189 TL Suman ## 180 SP Goswami ## 177 SM Katich ## 172 Shoaib Akhtar ## 165 SA Yadav ## 165 SA Yadav ## 166 S SB Wagh ## 167 SB Jakati ## 163 S Sreesanth ## 164 SA Asnodkar ## 165 SA Yadav ## 159 S Badrinath ## 159 S Badrinath ## 150 RS Bopara ## 151 SR S Bopara ## 151 SR S Bopara ## 152 RJ Harris ## 153 RP Singh ## 154 RA Showin ## 155 RS Bopara ## 156 RS Bopara ## 157 S Anirudha ## 158 RA Tripathi ## 158 RA Tripathi ## 159 RE Levi ## 140 Q de Kock ## 141 R Ashwin ## 144 R McLaren ## 144 R McLaren ## 145 MS Bisla ## 140 Q de Kock ## 133 P Parameswaran ## 140 RA Showin ## 141 RA Showin ## 142 RA Bhatia ## 143 RA Showin ## 144 RA MCLaren ## 145 RA Showin ## 140 RA Showin ## 140 RA Showin ## 140 RA Showin ## 141 RA Showin ## 142 RA Bhatia ## 143 RA Showin ## 144 RA MCLaren ## 145 RA Showin ## 140 RA Showin | | | _ | |
| ## 34 | | | | |
| ## 32 | | | = | |
| ## 31 BW Hilfenhaus ## 25 B Lee ## 23 Azhar Mahmood ## 18 AJ Tye ## 11 AB Dinda ## 202 Z Khan ## 200 YS Chahal ## 198 WPUJC Vaas ## 196 Washington Sundar ## 195 VR Aaron ## 191 Umar Gul ## 190 TM Dilshan ## 188 TA Boult ## 188 SP Goswami ## 177 SM Katich ## 172 Shoaib Akhtar ## 168 SB Wagh ## 167 SB Jakati ## 163 S Sreesanth ## 164 SA Asnodkar ## 165 SA Yadav ## 165 SA Yadav ## 167 SB Jakati ## 155 SA Shal ## 150 S Badrinath ## 151 S S SA Yadav ## 150 S Badrinath ## 150 S Badrinath ## 151 S S SA SARAVING ## 150 S Badrinath ## 151 S S SA SARAVING ## 151 S S SA SARAVING ## 152 S Shal ## 153 S S SEESANT ## 154 S SA SARAVING ## 155 S SA SARAVING ## 156 S SA SARAVING ## 157 S SA SARAVING ## 158 S SARAVING ## 159 S BADRINATH ## 150 RE Levi ## 140 Q de Kock ## 141 R AShwin ## 144 R MCLaren ## 144 R MCLaren ## 144 R SA SARAVING ## 145 S SARAVING ## 146 SA SARAVING ## 147 S SANITUR ## 148 SA Tripathi ## 140 Q de Kock ## 133 P Parameswaran ## 140 S SARAVING ## 140 S SARAVING ## 141 S SARAVING ## 142 S SARAVING ## 144 S SA SARAVING ## 145 S SARAVING ## 140 S SARAVING ## 140 S SARAVING ## 141 S SARAVING ## 142 S SARAVING ## 144 S SARAVING ## 145 S SARAVING ## 146 S SARAVING ## 147 S SARAVING ## 148 SARATING ## 149 SARAVING ## 140 S SARAVING # | | | | |
| ## 25 | | | = | |
| ## 18 | | | | |
| ## 18 | | | | |
| ## 11 AB Dinda 2 ## 202 Z Khan ## 200 YS Chahal ## 198 WPUJC Vaas ## 196 Washington Sundar ## 195 VR Aaron ## 191 Umar Gul ## 189 TL Suman ## 188 TA Boult ## 177 SM Katich ## 172 Shoaib Akhtar ## 168 SB Wagh ## 167 SB Jakati ## 165 SA Yadav ## 164 SA Asnodkar ## 163 S Sreesanth ## 162 S Sohal ## 159 S Badrinath ## 158 S Aravind ## 159 RS Bopara ## 150 RE Levi ## 153 RP Singh ## 154 RA Tripathi ## 150 RE Levi ## 144 R RACLaren ## 144 R Ashwin ## 144 R Rhatia ## 140 Q de Kock ## 138 PP Collingwood ## 133 P Parameswaran ## 140 Q de Kock ## 138 PP Ojha ## 130 NV Ojha ## 130 NV Ojha ## 140 Mohammed Shami ## 120 Mohammed Siraj ## 120 Mohammed Shami ## 120 Mohammed Shami ## 120 Mohammed Shami ## 110 MF Maharoof ## 110 MF MA Starc ## 100 MF Maharoof ## 101 MF Maharoof ## 101 MF MAAgarwal ## 100 MF Maharoof ## 100 MF MAAgarwal ## 100 MF MAAgarwal ## 100 MF MAAgarwal ## 100 MF MAAgarwal ## 100 MA Agarwal | | | | |
| ## 202 | | | - | |
| ## 200 YS Chahal ## 198 WPUJC Vaas ## 196 Washington Sundar ## 195 VR Aaron ## 191 Umar Gul ## 190 TM Dilshan ## 188 TA Boult ## 188 SP Goswami ## 177 SM Katich ## 168 SB Wagh ## 167 SB Jakati ## 165 SA Yadav ## 164 SA Asnodkar ## 163 S Sreesanth ## 162 S Sohal ## 159 S Badrinath ## 159 S Badrinath ## 159 RS Bopara ## 150 RE Levi ## 150 RE Levi ## 144 R McLaren ## 144 R McLaren ## 144 R Ashwin ## 140 Q de Kock ## 133 P Parameswaran ## 130 NV Ojha ## 130 PD Collingwood ## 133 P Parameswaran ## 130 MV Ojha ## 120 Mohammed Shami ## 122 MR Marsh ## 123 MS Bisla ## 120 Mohammed Shami ## 118 MN Samuels ## 119 Mohammed Shami ## 110 MA Agarwal ## 107 MD Mishra ## 108 MA Agarwal ## 100 MA Agarwal | | | | |
| ## 198 WPUJC Vaas ## 196 Washington Sundar ## 195 VR Aaron ## 191 Umar Gul ## 190 TM Dilshan ## 188 TA Boult ## 177 SM Katich ## 172 Shoaib Akhtar ## 168 SB Wagh ## 167 SB Jakati ## 163 S Sreesanth ## 163 S Sreesanth ## 159 S Badrinath ## 159 S Badrinath ## 159 S Badrinath ## 150 RF Bopara ## 151 RS Bopara ## 144 R McLaren ## 144 R McLaren ## 144 R Ashwin ## 140 Q de Kock ## 133 P Parameswaran ## 130 NV Ojha ## 130 MV Ojha ## 120 Mohammed Shami ## 122 MR Marsh ## 123 MS Bisla ## 122 MR Marsh ## 124 MR Marsh ## 125 MS Gony ## 123 MS Bisla ## 120 Mohammed Shami ## 118 MN Samuels ## 119 Mohammed Shami ## 110 MA Agarwal ## 107 MD Mishra ## 107 MD Mishra ## 104 MA Starc ## 103 MA Agarwal | | | | |
| ## 196 Washington Sundar ## 195 | | | | |
| ## 195 | | | | |
| ## 191 | | | _ | |
| ## 190 | | | | |
| ## 189 | | | | |
| ## 188 | | | | |
| ## 180 SP Goswami ## 177 SM Katich ## 172 Shoaib Akhtar ## 168 SB Wagh ## 167 SB Jakati ## 165 SA Yadav ## 164 SA Asnodkar ## 162 S Sohal ## 165 S Sadal ## 165 SA Asnodkar ## 160 S Sohal ## 150 S Badrinath ## 155 SA Aravind ## 155 SA Sarevind ## 155 SA Sarevind ## 150 SA Sohal ## 144 SA SARAVIND ## 144 SA SARAVIND ## 145 SA SOHAL ## 145 SA SOHAL ## 146 SA SARAVIND ## 150 SA SOHAL ## | | | | |
| ## 177 SM Katich 1 ## 172 Shoaib Akhtar 1 ## 168 SB Wagh 1 ## 167 SB Jakati 1 ## 165 SA Yadav 1 ## 164 SA Asnodkar 1 ## 162 S Sohal 1 ## 161 S Nadeem 1 ## 159 S Badrinath 1 ## 155 RS Bopara 1 ## 155 RS Bopara 1 ## 150 RE Levi 1 ## 148 RA Tripathi 1 ## 144 R McLaren 1 ## 144 R Ashwin 1 ## 140 Q de Kock 1 ## 138 PP Ojha 1 ## 140 Q de Kock 1 ## 130 NV Ojha 1 ## 125 MS Gony 1 ## 120 Mohammed Siraj 1 ## 122 MR Marsh 1 ## 120 Mohammed Siraj 1 ## 110 MR Samuels 1 ## 111 MJ Lumb 1 ## 110 MF Maharoof 1 ## 100 MF Maharoof 1 ## 101 MA Starc 1 ## 101 MA Agarwal 1 | | | | |
| ## 172 Shoaib Akhtar 1 ## 168 SB Wagh 1 ## 167 SB Jakati 1 ## 165 SA Yadav 1 ## 164 SA Asnodkar 1 ## 162 S Sohal 1 ## 159 S Badrinath 1 ## 155 RS Bopara 1 ## 155 RS Bopara 1 ## 150 RE Levi 1 ## 148 RA Tripathi 1 ## 144 R McLaren 1 ## 140 Q de Kock 1 ## 141 R Ashwin 1 ## 138 PP Ojha 1 ## 130 NV Ojha 1 ## 125 MS Gony 1 ## 120 Mohammed Siraj 1 ## 122 MR Marsh 1 ## 122 MR Marsh 1 ## 124 MN Samuels 1 ## 118 MN Samuels 1 ## 119 Mohammed Shami 1 ## 110 MF Maharoof 1 ## 109 MF Maharoof 1 ## 109 MF Maharoof 1 ## 100 MA Agarwal 1 | | | | |
| ## 168 SB Wagh 1 ## 167 SB Jakati 1 ## 165 SA Yadav 1 ## 164 SA Asnodkar 1 ## 163 S Sreesanth 1 ## 162 S Sohal 1 ## 159 S Badrinath 1 ## 158 S Aravind 1 ## 155 RS Bopara 1 ## 152 RJ Harris 1 ## 150 RE Levi 1 ## 144 R McLaren 1 ## 144 R McLaren 1 ## 140 Q de Kock 1 ## 138 PP Ojha 1 ## 130 NV Ojha 1 ## 130 NV Ojha 1 ## 125 MS Gony 1 ## 120 Mohammed Siraj 1 ## 122 MR Marsh 1 ## 122 MR Marsh 1 ## 120 Mohammed Shami 1 ## 111 MJ Lumb 1 ## 110 MF Maharoof 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 100 MA Agarwal 1 | | | | |
| ## 167 SB Jakati 1 ## 165 SA Yadav 1 ## 164 SA Asnodkar 1 ## 163 S Sreesanth 1 ## 162 S Sohal 1 ## 159 S Badrinath 1 ## 158 S Aravind 1 ## 155 RS Bopara 1 ## 152 RJ Harris 1 ## 150 RE Levi 1 ## 148 RA Tripathi 1 ## 144 R McLaren 1 ## 144 R Ashwin 1 ## 140 Q de Kock 1 ## 138 PP Ojha 1 ## 130 NV Ojha 1 ## 130 NV Ojha 1 ## 120 Mohammed Siraj 1 ## 122 MS Bisla 1 ## 122 MR Marsh 1 ## 141 MS Bisla 1 ## 122 MR Marsh 1 ## 120 Mohammed Siraj 1 ## 111 MJ Lumb 1 ## 118 MN Samuels 1 ## 110 MF Maharoof 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 | | | | |
| ## 165 SA Yadav 1 ## 164 SA Asnodkar 1 ## 163 S Sreesanth 1 ## 162 S Sohal 1 ## 161 S Nadeem 1 ## 159 S Badrinath 1 ## 158 S Aravind 1 ## 155 RS Bopara 1 ## 155 RS Bopara 1 ## 150 RE Levi 1 ## 150 RE Levi 1 ## 144 R McLaren 1 ## 144 R McLaren 1 ## 141 R Ashwin 1 ## 140 Q de Kock 1 ## 138 PP Ojha 1 ## 130 NV Ojha 1 ## 130 NV Ojha 1 ## 120 Mohammed Siraj 1 ## 122 MR Marsh 1 ## 122 MR Marsh 1 ## 120 Mohammed Shami 1 ## 111 MJ Lumb 1 ## 110 MF Maharoof 1 ## 100 MF Maharoof 1 ## 100 MF Maharoof 1 ## 100 MA Starc 1 ## 101 MA Starc 1 ## 101 MA Agarwal 1 ## 103 MA Agarwal 1 ## 103 MA Agarwal 1 ## 103 MA Agarwal 1 ## 100 MA Agarwal 1 | | | | |
| ## 164 SA Asnodkar ## 163 S Sreesanth ## 162 S Sohal ## 161 S Nadeem ## 159 S Badrinath ## 158 S Aravind ## 155 RS Bopara ## 155 RS Bopara ## 150 RE Levi ## 150 RE Levi ## 148 RA Tripathi ## 144 R McLaren ## 144 R Ashwin ## 140 Q de Kock ## 138 PP Ojha ## 130 PD Collingwood ## 133 P Parameswaran ## 130 NV Ojha ## 120 Mohammed Siraj ## 122 MR Marsh ## 122 MR Marsh ## 120 Mohammed Siraj ## 111 MJ Lumb ## 118 MN Samuels ## 110 MF Maharoof ## 107 MD Mishra ## 104 MA Starc ## 103 MA Agarwal ## 97 MKartik | | | | |
| ## 163 S Sreesanth 1 ## 162 S Sohal 1 ## 161 S Nadeem 1 ## 159 S Badrinath 1 ## 158 S Aravind 1 ## 155 RS Bopara 1 ## 155 RS Bopara 1 ## 150 RE Levi 1 ## 150 RE Levi 1 ## 144 R McLaren 1 ## 144 R McLaren 1 ## 144 R Ashwin 1 ## 140 Q de Kock 1 ## 138 PP Ojha 1 ## 130 NV Ojha 1 ## 130 NV Ojha 1 ## 120 Mohammed Siraj 1 ## 122 MR Marsh 1 ## 120 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 110 MF Maharoof 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 | | | | |
| ## 162 | | | | |
| ## 161 S Nadeem ## 159 S Badrinath ## 158 S Aravind ## 157 S Anirudha ## 155 RS Bopara ## 153 RP Singh ## 150 RE Levi ## 150 RE Levi ## 148 RA Tripathi ## 144 R McLaren ## 142 R Bhatia ## 141 R Ashwin ## 140 Q de Kock ## 138 PP Ojha ## 136 PD Collingwood ## 133 P Parameswaran ## 130 NV Ojha ## 126 Mustafizur Rahman ## 125 MS Gony ## 122 MR Marsh ## 122 MR Marsh ## 120 Mohammed Siraj ## 119 Mohammed Shami ## 110 MJ Lumb ## 111 MJ Lumb ## 109 MF Maharoof ## 107 MD Mishra ## 104 MA Starc ## 103 MA Agarwal ## 103 MA Agarwal ## 103 MA Agarwal ## 97 M Kartik 1 | | | | |
| ## 159 S Badrinath 1 ## 158 S Aravind 1 ## 157 S Anirudha 1 ## 155 RS Bopara 1 ## 153 RP Singh 1 ## 150 RE Levi 1 ## 150 RE Levi 1 ## 148 RA Tripathi 1 ## 144 R McLaren 1 ## 140 Q de Kock 1 ## 138 PP Ojha 1 ## 136 PD Collingwood 1 ## 133 P Parameswaran 1 ## 130 NV Ojha 1 ## 126 Mustafizur Rahman 1 ## 125 MS Gony 1 ## 120 Mohammed Siraj 1 ## 120 Mohammed Siraj 1 ## 111 MJ Lumb 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 | | | | |
| ## 158 S Aravind 1 ## 157 S Anirudha 1 ## 155 RS Bopara 1 ## 153 RP Singh 1 ## 150 RE Levi 1 ## 148 RA Tripathi 1 ## 144 R McLaren 1 ## 140 Q de Kock 1 ## 138 PP Ojha 1 ## 136 PD Collingwood 1 ## 133 P Parameswaran 1 ## 140 NV Ojha 1 ## 120 Mohammed Siraj 1 ## 120 Mohammed Siraj 1 ## 120 Mohammed Shami 1 ## 119 Mohammed Shami 1 ## 119 Mohammed Shami 1 ## 110 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 MKartik 1 | | | | |
| ## 157 S Anirudha 1 ## 155 RS Bopara 1 ## 153 RP Singh 1 ## 150 RE Levi 1 ## 148 RA Tripathi 1 ## 144 R McLaren 1 ## 140 Q de Kock 1 ## 138 PP Ojha 1 ## 136 PD Collingwood 1 ## 133 P Parameswaran 1 ## 140 NV Ojha 1 ## 126 Mustafizur Rahman 1 ## 125 MS Gony 1 ## 120 Mohammed Siraj 1 ## 120 Mohammed Siraj 1 ## 111 MJ Lumb 1 ## 110 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 | | | | |
| ## 155 RS Bopara 1 ## 153 RP Singh 1 ## 152 RJ Harris 1 ## 150 RE Levi 1 ## 148 RA Tripathi 1 ## 144 R McLaren 1 ## 142 R Bhatia 1 ## 141 R Ashwin 1 ## 140 Q de Kock 1 ## 138 PP Ojha 1 ## 136 PD Collingwood 1 ## 133 P Parameswaran 1 ## 130 NV Ojha 1 ## 126 Mustafizur Rahman 1 ## 125 MS Gony 1 ## 123 MS Bisla 1 ## 120 Mohammed Siraj 1 ## 120 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 118 MN Samuels 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 103 MA Agarwal 1 ## 103 MA Agarwal 1 | | | | |
| ## 153 RP Singh 1 ## 152 RJ Harris 1 ## 150 RE Levi 1 ## 148 RA Tripathi 1 ## 144 R McLaren 1 ## 141 R Ashwin 1 ## 140 Q de Kock 1 ## 138 PP Ojha 1 ## 136 PD Collingwood 1 ## 133 P Parameswaran 1 ## 140 NV Ojha 1 ## 126 Mustafizur Rahman 1 ## 125 MS Gony 1 ## 122 MR Marsh 1 ## 120 Mohammed Siraj 1 ## 119 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 111 MJ Lumb 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | | |
| ## 152 | | | = | |
| ## 150 RE Levi 1 ## 148 RA Tripathi 1 ## 144 R McLaren 1 ## 142 R Bhatia 1 ## 141 R Ashwin 1 ## 140 Q de Kock 1 ## 138 PP Ojha 1 ## 136 PD Collingwood 1 ## 133 P Parameswaran 1 ## 140 NV Ojha 1 ## 126 Mustafizur Rahman 1 ## 125 MS Gony 1 ## 123 MS Bisla 1 ## 122 MR Marsh 1 ## 120 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 118 MN Samuels 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 103 MA Agarwal 1 | | | _ | |
| ## 148 RA Tripathi 1 ## 144 R McLaren 1 ## 142 R Bhatia 1 ## 141 R Ashwin 1 ## 140 Q de Kock 1 ## 138 PP Ojha 1 ## 136 PD Collingwood 1 ## 133 P Parameswaran 1 ## 130 NV Ojha 1 ## 126 Mustafizur Rahman 1 ## 125 MS Gony 1 ## 123 MS Bisla 1 ## 122 MR Marsh 1 ## 120 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 119 Mohammed Shami 1 ## 111 MJ Lumb 1 ## 110 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 103 MA Agarwal 1 | | | | |
| ## 144 R McLaren 1 ## 142 R Bhatia 1 ## 141 R Ashwin 1 ## 140 Q de Kock 1 ## 138 PP Ojha 1 ## 136 PD Collingwood 1 ## 133 P Parameswaran 1 ## 130 NV Ojha 1 ## 126 Mustafizur Rahman 1 ## 125 MS Gony 1 ## 123 MS Bisla 1 ## 122 MR Marsh 1 ## 120 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 118 MN Samuels 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 103 MA Agarwal 1 | | | | |
| ## 142 R Bhatia 1 ## 141 R Ashwin 1 ## 140 Q de Kock 1 ## 138 PP Ojha 1 ## 136 PD Collingwood 1 ## 133 P Parameswaran 1 ## 130 NV Ojha 1 ## 126 Mustafizur Rahman 1 ## 125 MS Gony 1 ## 123 MS Bisla 1 ## 122 MR Marsh 1 ## 120 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 118 MN Samuels 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 103 MA Agarwal 1 | | | | |
| ## 141 R Ashwin 1 ## 140 Q de Kock 1 ## 138 PP Ojha 1 ## 136 PD Collingwood 1 ## 133 P Parameswaran 1 ## 130 NV Ojha 1 ## 126 Mustafizur Rahman 1 ## 125 MS Gony 1 ## 123 MS Bisla 1 ## 122 MR Marsh 1 ## 120 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 118 MN Samuels 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | | |
| ## 140 Q de Kock 1 ## 138 PP Ojha 1 ## 136 PD Collingwood 1 ## 133 P Parameswaran 1 ## 130 NV Ojha 1 ## 126 Mustafizur Rahman 1 ## 125 MS Gony 1 ## 123 MS Bisla 1 ## 122 MR Marsh 1 ## 120 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 118 MN Samuels 1 ## 111 MJ Lumb 1 ## 110 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | | |
| ## 138 PP Ojha 1 ## 136 PD Collingwood 1 ## 133 P Parameswaran 1 ## 130 NV Ojha 1 ## 126 Mustafizur Rahman 1 ## 125 MS Gony 1 ## 123 MS Bisla 1 ## 120 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 118 MN Samuels 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | | |
| ## 136 PD Collingwood 1 ## 133 P Parameswaran 1 ## 130 NV Ojha 1 ## 126 Mustafizur Rahman 1 ## 125 MS Gony 1 ## 123 MS Bisla 1 ## 120 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 118 MN Samuels 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | | |
| ## 133 P Parameswaran 1 ## 130 NV Ojha 1 ## 126 Mustafizur Rahman 1 ## 125 MS Gony 1 ## 123 MS Bisla 1 ## 122 MR Marsh 1 ## 120 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 118 MN Samuels 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | = | |
| ## 130 NV Ojha 1 ## 126 Mustafizur Rahman 1 ## 125 MS Gony 1 ## 123 MS Bisla 1 ## 122 MR Marsh 1 ## 120 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 118 MN Samuels 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | = | |
| ## 126 Mustafizur Rahman 1 ## 125 MS Gony 1 ## 123 MS Bisla 1 ## 122 MR Marsh 1 ## 120 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 118 MN Samuels 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | | |
| ## 125 MS Gony 1 ## 123 MS Bisla 1 ## 122 MR Marsh 1 ## 120 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 118 MN Samuels 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | = | |
| ## 123 MS Bisla 1 ## 122 MR Marsh 1 ## 120 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 118 MN Samuels 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | | |
| ## 122 MR Marsh 1 ## 120 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 118 MN Samuels 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | - | |
| ## 120 Mohammed Siraj 1 ## 119 Mohammed Shami 1 ## 118 MN Samuels 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | | |
| ## 119 Mohammed Shami 1 ## 118 MN Samuels 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | | |
| ## 118 MN Samuels 1 ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | | |
| ## 111 MJ Lumb 1 ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | | |
| ## 109 MF Maharoof 1 ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | | |
| ## 107 MD Mishra 1 ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | | |
| ## 104 MA Starc 1 ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | | |
| ## 103 MA Agarwal 1 ## 97 M Kartik 1 | | | | |
| ## 97 M Kartik 1 | | | MA Starc | |
| | | | | |
| ## 95 LR Shukla 1 | | | | |
| | | | | |
| ## QQ T.T โมลร์สh+ 1 | 1 ## | 03 | T.T Wrich+ | 1 |

```
TO MITAIIC
## シン
## 92
         LH Ferguson
## 90
           KV Sharma
                          1
       KS Williamson
## 89
                          1
## 87
      KMDN Kulasekara
                          1
## 84
       KK Cooper
                          1
## 77
           JJ Bumrah
                         1
## 75
        JEC Franklin
## 74
          JDP Oram
## 72
            JD Ryder
                         1
## 71
          JC Buttler
                         1
            J Theron
## 69
                          1
## 68
             J Botha
                          1
## 64
            HV Patel
                          1
## 61
            HH Gibbs
## 57
           GJ Bailey
          GD McGrath
## 55
                          1
## 51
          EJG Morgan
                          1
           DP Nannes
## 47
                          1
## 46
          DL Vettori
                          1
           DJG Sammy
## 45
                         1
## 43
            DJ Hooda
        CRD Fernando
## 38
                         1
## 37
        CR Brathwaite
                         1
## 36
          CL White
                          1
         BCJ Cutting
## 29
                          1
## 26
           BA Bhatt
                          1
## 20
             AP Tare
## 15
           AD Mathews
## 14
       AD Mascarenhas
                          1
## 13
       AC Voges
                          1
## 9
       AA Jhunjhunwala
                          1
## 8
       A Zampa
                          1
## 6
             A Singh
                          1
## 2
           A Chandila
#3. AVERAGE WINNING RUNS in all the seasons of IPL
```

```
#3. AVERAGE WINNING RUNS in all the seasons of IPL
avg_winning_runs<-mean(dataset$win_by_runs)
avg_winning_runs<-round(avg_winning_runs)
avg_winning_runs
```

```
## [1] 14
```

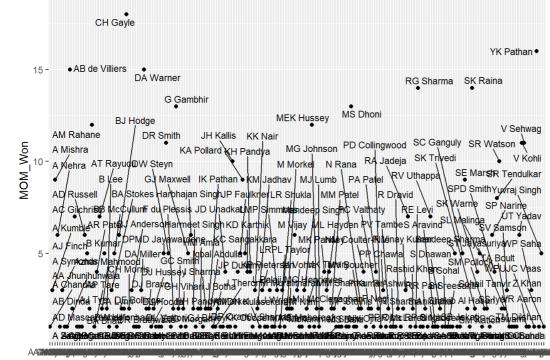
```
#4. AVERAGE WINNING WICKETS in all the seasons of IPL
avg_winning_wkts<-mean(dataset$win_by_wickets)
avg_winning_wkts<-round(avg_winning_wkts)
avg_winning_wkts
```

```
## [1] 3
```

```
#5. Number of normal, tie and no result matches in history of IPL
Normal_and_tie_and_noresult<- aggregate(data.frame(Number_of_matches = dataset$result), list(Result = dataset$result), length)
Normal_and_tie_and_noresult
```

Performance of Teams in the history of IPL Sunrisers Hyderabad Royal Challengers Bangalore Rising Pune Supergiants Rising Pune Supergiant Rajasthan Royals Pune Warriors Teams Mumbai Indians Kolkata Knight Riders 6 Kochi Tuskers Kerala Kings XI Punjab 13 **Gujarat Lions** Delhi Daredevils **Deccan Chargers** Chennai Super Kings Ö 25 50 75 Number of Matches Won

```
library(ggplot2)
library(ggrepel)
plot7<-ggplot(most_consistent_player, aes(x=Player, y=MOM_Won)) +
   geom_point()+
   geom_text_repel(aes(Player, MOM_Won, label = Player), size = 3)
plot7</pre>
```



Player

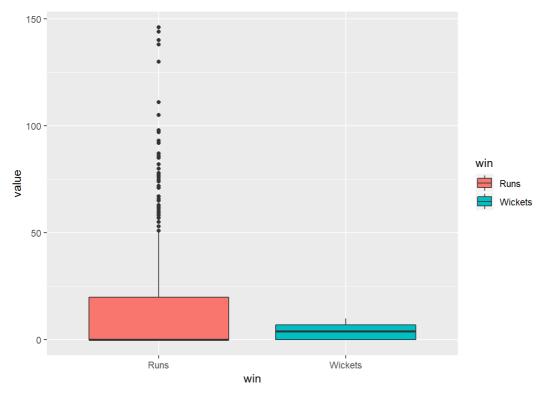
```
aa = data.frame(win="Runs", value = dataset$win_by_runs)
bb = data.frame(win = "Wickets", value = dataset$win_by_wickets)
plot.data = rbind(aa,bb)

plot8<-ggplot(plot.data, aes(x=win, y=value, fill=win)) +
    geom_boxplot()

ggtitle("Box Plot Showing Win by Runs and Win by Wickets Statistics in the history of IPL")</pre>
```

```
## $title
## [1] "Box Plot Showing Win by Runs and Win by Wickets Statistics in the history of IPL"
##
## $subtitle
## NULL
##
attr(,"class")
## [1] "labels"
```

plot8



```
summary(dataset$win_by_runs)
```

```
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0.00 0.00 0.00 13.68 20.00 146.00
```

```
summary(dataset$win_by_wickets)
```

```
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0.000 0.000 4.000 3.373 7.000 10.000
```

Number of Normal/tie/noresult matches in the history of IPL



plot9

NULL