IPL STATISTICS DASHBOARD



Submitted By:

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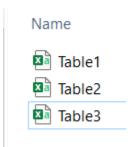
Submitted To:

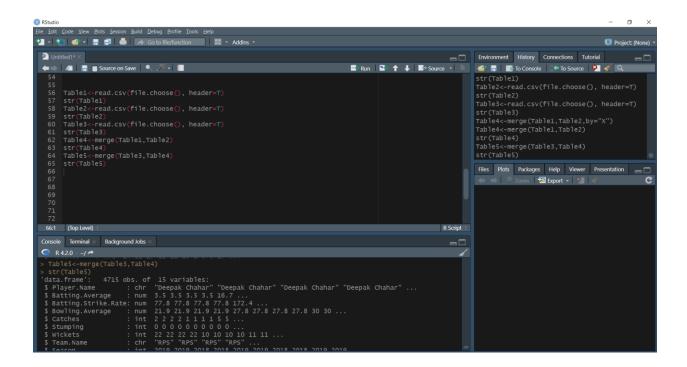
Mrs. Kashish Goyal

OVERVIEW OF THE PROJECT

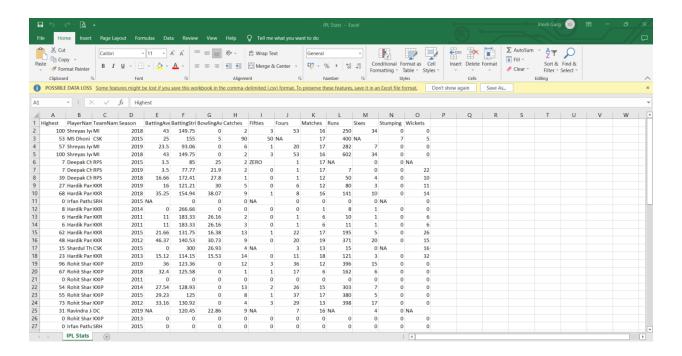
- The purpose of the project was to create innovative and interactive Tableau dashboards.
- Developed a IPL statistics Dashboard to analysis about the players performance in different seasons of IPL on the basis of Top Runs, Highest Wickets and so on.
- The data to be cleaned using R. The Dataset contained missing values and was cleaned using the R programming language.
- Tableau dashboards were created from the cleaned dataset.

SPLITTING AND MERGING OF DATASET

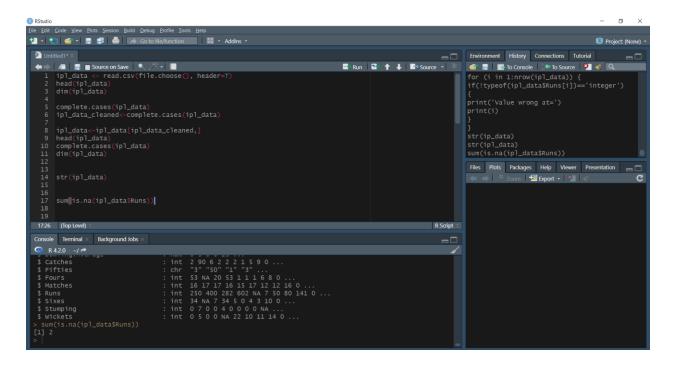




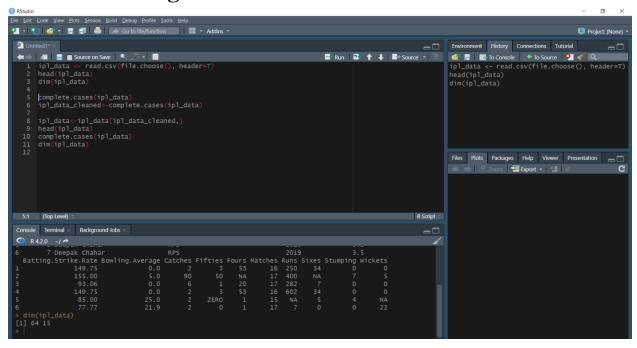
Raw Dataset:



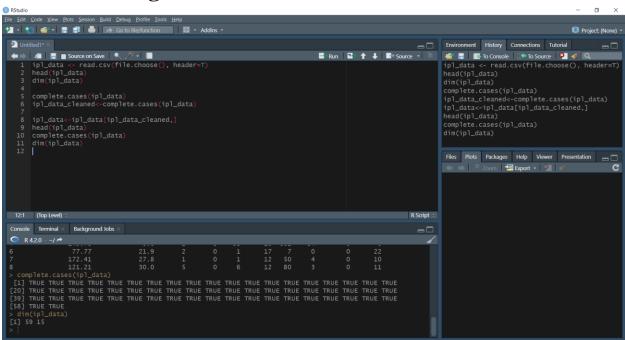
Data Preprocessing:



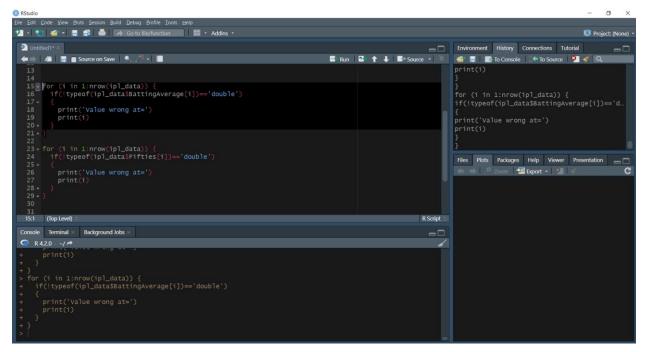
Before removing NA values:



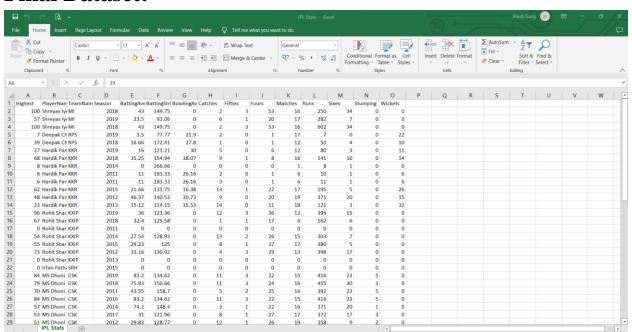
After removing NA values:



Check if all columns have valid values:



Final Dataset:

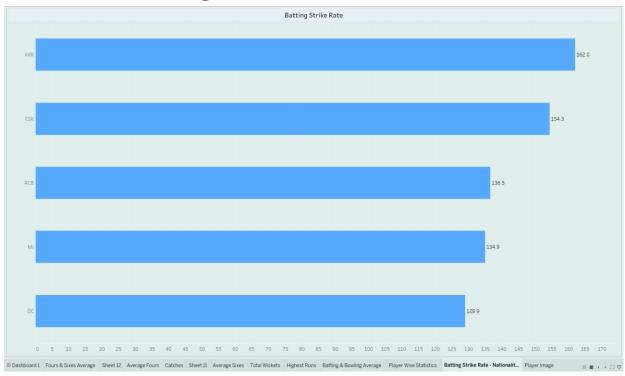


DASHBOARD

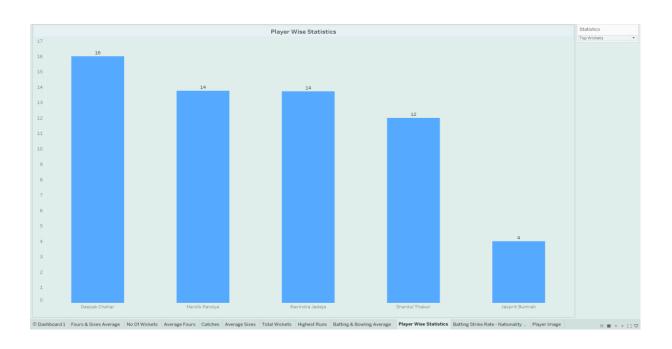




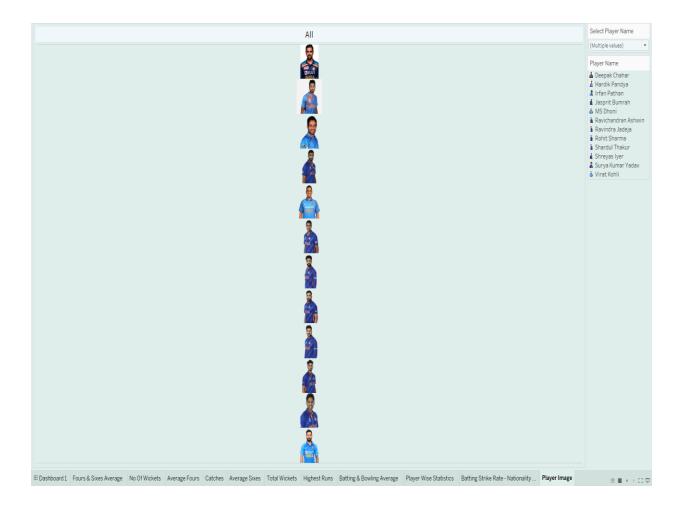
Sheet 1: Batting Strike Rate:



Sheet 2: Player Wise Statistics:



Sheet 3: Player Image:



Sheet 4: Highest Runs:



Sheet 5: Average Fours:



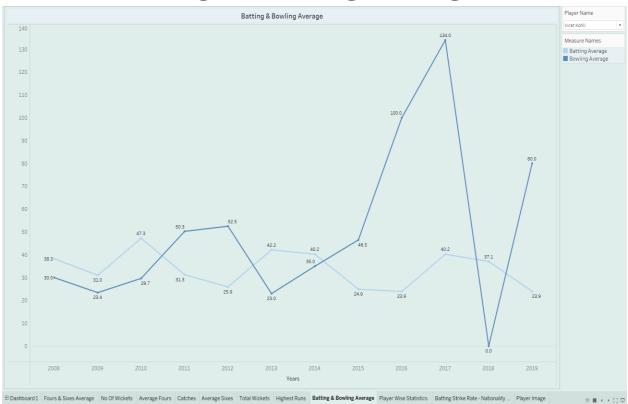
Sheet 6: Average Sixes:



Sheet 7: Total Wickets:



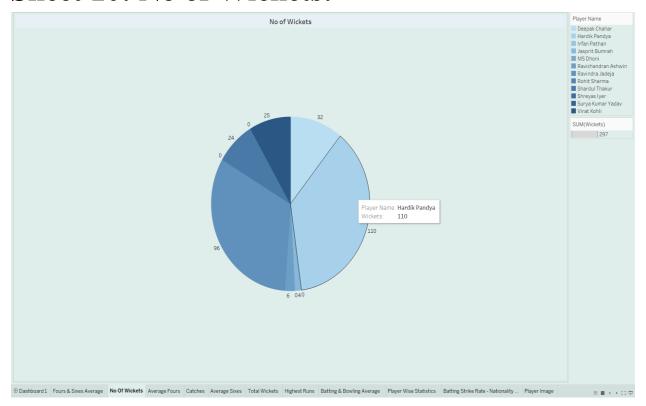
Sheet 8: Batting & Bowling Average:



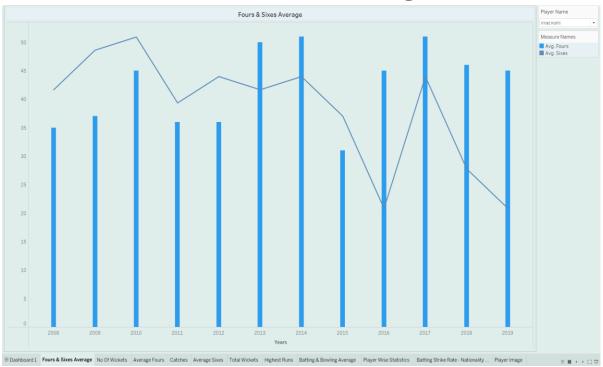
Sheet 9: Catches:



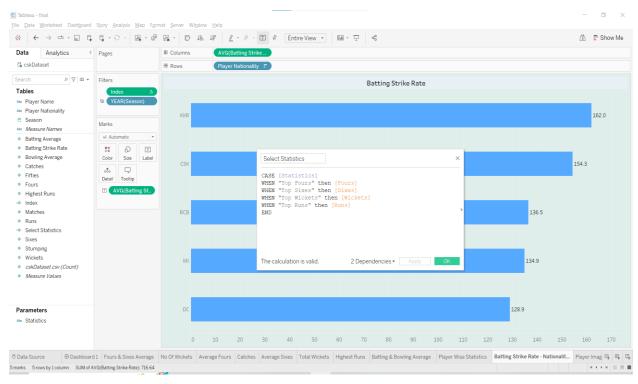
Sheet 10: No of Wickets:



Sheet 11: Fours & Sixes Average:



Filter the Calculations:









Head():

> head(df)												
	Highest	Pla	yerName	Team	Name S	eason	Batt	tingAvera	ge	BattingStrikeRate	BowlingAverage	Catches
1	100	Shrey	as Iyer		ΜI	2018		43.	00	149.75	0.0	2
2	57	Shrey	as Iyer		ΜI	2019		23.	50	93.06	0.0	6
3	100	Shrey	as Iyer		ΜI	2018		43.	00	149.75	0.0	2
4		Deepak	Chahar		RPS	2019		3.	50	77.77	21.9	2
5	39	Deepak	Chahar		RPS	2018		16.	66	172.41	27.8	1
6	27	Hardik	Pandya		KKR	2019		16.	00	121.21	30.0	5
	Fifties	Fours	Matches	Runs	Sixes	Stump	ing	Wickets				
1	. 3	53	16	250	34	ŀ	0	0				
2	1	20	17	282	7		0	0				
3	3	53	16	602	34	ŀ	0	0				
4	0	1	17	7	C		0	22				
5	0	1	12	50	4	ļ	0	10				
6	0		12	80	3	3	0	11				
_										·	·	

Queries on Dataset:

Q1: Summary of dataset:

```
summary(df)
   Highest
                   PlayerName
                                       TeamName
                                                                          BattingAverage
Min. : 0.00
1st Qu.: 29.00
                  Length: 59
                                    Class :character
Median : 57.00
Mean : 53.08
                  Mode :character
                                     Mode :character
                                                          Median :2015
                                                                          Median :29.23
3rd Qu.: 73.00
Max. :117.00
                                                                          Max. :83.20
BattingStrikeRate BowlingAverage
                                        Catches
                                                                                            Matches
                  Min. : 0.00
1st Qu.: 0.00
Median : 16.38
                                                                        Min. : 0.00 Min. : 0.00
1st Qu.: 7.00 1st Qu.:13.00
Min. : 0.0
1st Qu.:122.0
                                                       1st Qu.:0.000
                                     Median : 6.000
                                                                        Median :22.00
Median :133.5
                                                       Median :1.000
3rd Qu.:148.9
                   3rd Qu.: 29.83
                                     3rd Qu.:10.500
                                                       3rd Qu.:3.000
Max. :300.0
                   Max. :134.00
                                     Max. :15.000
                                                       Max. :5.000
                                                                        Max. :53.00
                                     Stumping
    Runs
                                                      Wickets
Min. : 0.0
                                  Min. :0.000
1st Qu.:107.0
                1st Qu.: 4.00
                                                   1st Qu.: 0.000
Median :332.0
                Median: 9.00
                                  Median :0.000
                                                   Median : 0.000
                                  Mean :0.661
3rd Qu.:0.000
3rd Qu.:415.0
                 3rd Qu.:19.00
Max. :602.0
                Max. :35.00
                                  Max. :6.000
                                                   Max. :32.000
```

Q2:Seasons played by Players and Teams:

```
ans<-factor(df$PlayerName)
[1] "Deepak Chahar"
[5] "MS Dhoni"
[9] "Shardul Thakur"
                            narurk Pandya" "Irfan Pathan"
"Ravichandran Ashwin" "Ravindra Jadeja"
"Shreyas Iyer" "Surya Kumar Yadav"
                            "Hardik Pandya"
                                                  "Irfan Pathan"
                                                                            "Jasprit Bumrah"
                                                                            "Rohit Sharma"
> table(ans)
      Deepak Chahar
                           Hardik Pandya
                                                  Irfan Pathan
                                                                     Jasprit Bumrah
Ravichandran Ashwin
                         Ravindra Jadeja
                                                  Rohit Sharma
                                                                     Shardul Thakur
                                                                                             Shreyas Iyer
  Surya Kumar Yadav
                              Virat Kohli
> ans<-factor(df$TeamName)</pre>
> levels(ans)
[1] "CSK" "DC"
                            "KKR" "KXIP" "MI"
                                                              "RCB"
                                                                                                "SRH"
> table(ans)
ans
 CSK
           DC KKR KXIP
                                   ΜI
                                         RCB
                                                 RPS
                                                           RR
                                                                 SRH
   14
                    8
                                           12
                                                                    1
```

Q3 No. of Runs on the basis of Players:

```
> df %>% group_by(PlayerName) %>% summarise(sum(Runs))
# A tibble: 12 \times 2
                         `sum(Runs)`
  PlayerName
                               <int>
   <chr>
 1 Deepak Chahar
                                   57
 2 Hardik Pandya
                                  937
 3 Irfan Pathan
                                    0
 4 Jasprit Bumrah
                                    0
 5 MS Dhoni
                                <u>4</u>646
 6 Ravichandran Ashwin
                                 953
 7 Ravindra Jadeja
                                1066
 8 Rohit Sharma
                                <u>1</u>639
 9 Shardul Thakur
                                 29
10 Shreyas Iyer
                                <u>1</u>134
11 Surya Kumar Yadav
                                108
12 Virat Kohli
                                <u>5</u>433
```

Q4 No. of Fours and Sixes on the basis of Teams:

```
> df %>% group_by(TeamName) %>% summarise(sum(Fours))
# A tibble: 9 \times 2
  TeamName `sum(Fours)`
  <chr>
                   <int>
                     317
1 CSK
2 DC
                      73
3 KKR
                      69
                     145
4 KXIP
5 MI
                     212
6 RCB
                     508
7 RPS
                       2
                       8
8 RR
                       0
9 SRH
> df %>% group_by(TeamName) %>% summarise(sum(Sixes))
# A tibble: 9 \times 2
 TeamName `sum(Sixes)`
  <chr>
                   <int>
1 CSK
                     220
2 DC
                      37
3 KKR
                      44
                      50
4 KXIP
                     130
5 MI
6 RCB
                     199
7 RPS
                       4
8 RR
                       5
9 SRH
                       0
```

Q5 No. of catches and stumpings on the basis of Seasons:

```
> df %>% group_by(Season) %>% summarise(sum(Catches)+sum(Stumping))
# A tibble: 12 \times 2
    Season `sum(Catches) + sum(Stumping)`
     <int>
                                                <int>
 1
      <u>2</u>008
                                                   16
 2
      <u>2</u>009
                                                   15
      <u>2</u>010
                                                   21
      <u>2</u>011
                                                   19
      <u>2</u>012
                                                   40
      <u>2</u>013
                                                   53
      <u>2</u>014
                                                   32
 8
      2015
                                                    56
 9
      <u>2</u>016
                                                   23
10
      <u>2</u>017
                                                   22
11
      <u>2</u>018
                                                   61
12
      2019
                                                   69
```

Q6: Name the player, of which team in which season whose average of Batting, Bowling, Fours and Sixes is Zero: