

MVLU COLLEGE

R RACTICAL 3

Aim:Exploring data: View() or print() (R).

```

RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
+ - Go to file/function Addins
astest.Fifties_2018.R Fastest.Fifties practical3.R* Untitled6* PRACTICAL 3.R* Untitled6* describe > Source
1 library(readr) # For efficient data reading
2 library(psych) # For descriptive statistics
3 my_data <- read.csv("Fastest.Fifties.csv")
4
5 # View the first few rows
6 head(Fastest.Fifties)
7
8 # View the last few rows
9 tail(Fastest.Fifties)
10
11 # Get the dimensions (rows and columns)
12 dim(Fastest.Fifties)
13
14 # Get the dimensions (rows and columns)
15 cat("Dimensions (Rows, Columns): ", dim(Fastest.Fifties), "\n")
16
17 # Get the structure (variable types and number of observations)
18 str(Fastest.Fifties)
19
20 # See a summary of the dataset
21 summary(Fastest.Fifties)
22
23 # Get the column names
24 names(Fastest.Fifties)
25 cat("Column Names: ", names(Fastest.Fifties), "\n")
26
27 # Use the 'psych' package for more detailed descriptive statistics
28 # 'describe()' provides: n, mean, sd, median, trimmed mean, mad, min, max, range, skew, kurtosis
29 describe(Fastest.Fifties)
30
31
32
33
34
35
36
15:21 (Top Level) <
Console

```



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RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
+ - Go to file/function Addins
Source
Console Terminal > Background Jobs
R 4.1.2 - ~
> Fastest.Fifties
      POS Player Runs BF X4s X6s Against
1     1   KL Rahul  51 14   6   4    DC
2     2   Ishan Kishan 62 17   5   6    KKR
3     3   Sunil Narine 50 17   4   5    RCB
4     4   Jos Buttler  67 18   4   7    DC
5     5   Sam Billings 56 21   2   5    KKR
6     6   KL Rahul   66 22   2   7    KKR
7     7   Chris Gayle 63 22   7   4    CSK
8     8   MS Dhoni   51 22   2   5    DC
9     9   Kieron Pollard 50 22   5   3    PBKS
10   10   Dinesh Karthik 50 22   5   3    PBKS
11   11   Rishabh Pant 69 23   7   5    RR
12   12   AB de Villiers 68 23   2   8    CSK
13   13   AB de Villiers 90 24  10   5    DC
14   14   KL Rahul   60 24   9   2    KKR
15   15   Shane Watson 78 25   4   7    DC
16   16   Dwayne Bravo 68 25   3   7    MI
17   17   Moeen Ali   65 25   2   6    SRH
18   18   Prithvi Shaw 65 25   6   3    SRH
19   19   Karun Nair  54 25   3   5    CSK
20   20   Jos Buttler  95 26  11   2    CSK
21   21   Andre Russell 88 26   1   11   CSK
22   22   Sunil Narine 75 26   9   4    PBKS
23   23   Virat Kohli 70 26   7   3    DC
24   24   Virat Kohli 57 26   7   2    RR
25   25   Jason Roy   91 27   6   6    MI
26   26   Jos Buttler  82 27   9   1    PBKS
27   27   Ambati Rayudu 79 27   9   4    SRH
28   28   Rishabh Pant 61 27   5   4    RCB
29   29   Shane Watson 106 28   9   6    RR
30   30   Kane Williamson 81 28   7   5    RCB
31   31   AB de Villiers 72 28   4   6    DC
32   32   Chris Gayle  62 28   5   6    KKR
33   33   Vijay Shankar 54 28   1   5    CSK

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Source

Console Terminal Background Jobs

```
R - R 4.1.2 - ~
99 99 Hardik Pandya 50 41 5 1 RCB
100 100 Ajinkya Rahane 65 42 5 1 SRH
101 101 Chris Lynn 62 42 7 1 RCB
102 102 Kane Williamson 50 43 4 1 KKR
103 103 KL Rahul 84 44 7 3 RR
104 104 Suresh Raina 61 45 4 2 PBKS
105 105 KL Rahul 95 48 11 2 RR
106 106 Manish Pandey 54 48 3 1 PBKS
```

		Venue	Match.Date
1		IS Bindra Stadium	08 April 2018
2		Eden Gardens	09 May 2018
3		Eden Gardens	08 April 2018
4		Arun Jaitley Stadium	02 May 2018
5		Chidambaram	10 April 2018
6		Holkar Cricket Stadium	12 May 2018
7		IS Bindra Stadium	15 April 2018
8	Maharashtra Cricket Association's International	Stadium	30 April 2018
9		Wankhedi Stadium	16 May 2018
10		Holkar Cricket Stadium	12 May 2018
11		Arun Jaitley Stadium	02 May 2018
12		M. Chinnaswamy Stadium	25 April 2018
13		M. Chinnaswamy Stadium	21 April 2018
14		Eden Gardens	21 April 2018
15	Maharashtra Cricket Association's International	Stadium	30 April 2018
16		Wankhedi Stadium	07 April 2018
17		M. Chinnaswamy Stadium	17 May 2018
18	Rajiv Gandhi Intl. Cricket Stadium		05 May 2018
19	Maharashtra Cricket Association's International	Stadium	20 May 2018
20		Sawai Mansingh Stadium	11 May 2018
21		Chidambaram	10 April 2018
22		Holkar Cricket Stadium	12 May 2018
23		Arun Jaitley Stadium	12 May 2018
24		M. Chinnaswamy Stadium	15 April 2018
25		wankhedi Stadium	14 April 2018
26		Sawai Mansingh Stadium	08 May 2018

Environment History Connections Tutorial

Data

- Fastest.Fifties 106 obs. of 9 variables
- Fastest.Fifties 107 obs. of 9 variables

Files Plots Packages Help Viewer Presentation

Folder File Delete Rename

Home

Name	Size	Modified
.Rhistory	102 B	Nov 24, 2025, 11:16 AM
BackgroundShaker.cs	658 B	Aug 1, 2025, 9:17 AM
Custom Office Templates		
desktop.ini	402 B	Sep 3, 2025, 9:39 AM
example.html	167 B	Aug 2, 2025, 10:37 AM
fuel_sales.csv	768 B	Sep 18, 2025, 8:53 AM
GIS DataBase		
IISExpress		
My Music		
My Pictures		
My Videos		
My Web Sites		
R		

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Search

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RStudio

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Source

Console Terminal Background Jobs

```
R - R 4.1.2 - ~
100 Maharashtra Cricket Association's International Stadium 20 May 2018
105 Sawai Mansingh Stadium 08 May 2018
106 Rajiv Gandhi Intl. Cricket Stadium 20 May 2018
> describe(Fastest.Fifties)
   vars  n  mean   sd median trimmed  mad min max range skew kurtosis    se
POS   1 106 53.50 30.74  53.5  53.50 39.29  1 106 105 0.00 -1.23 2.99
Player* 2 106 21.27 12.38  20.0  21.40 17.05  1 41 40 -0.06 -1.25 1.20
Runs   3 106 67.93 16.85  62.5  65.98 14.83  50 128 78 1.05  0.64 1.64
BF    4 106 31.87 6.74  32.0  31.93 7.41  14 48 34 -0.12 -0.21 0.65
X4s   5 106 5.68 2.70  5.0  5.51 2.97  1 15 14 0.69  0.71 0.26
X6s   6 106 3.75 2.38  3.0  3.53 1.48  0 11 11 0.89  0.58 0.23
Against* 7 106 4.56 2.32  5.0  4.57 2.97  1 8 7 -0.08 -1.29 0.23
Venue* 8 106 5.92 2.90  6.0  6.01 2.97  1 10 9 -0.28 -1.05 0.28
Match.Date* 9 106 22.14 11.26  22.5  22.22 12.60  1 41 40 -0.08 -1.05 1.09
> names(Fastest.Fifties)
[1] "POS"      "Player"    "Runs"     "BF"       "X4s"      "X6s"      "Against"
[8] "Venue"    "Match.Date"
> summary(Fastest.Fifties)
   POS          Player          Runs          BF          X4s        
Min. : 1.00  Length:106  Min. : 50.00  Min. :14.00  Min. : 1.000
1st Qu.: 27.25 Class :character 1st Qu.: 54.00  1st Qu.:27.00  1st Qu.: 4.000
Median : 53.50 Mode  :character Median : 62.50  Median :32.00  Median : 5.000
Mean   : 53.50           Mean : 67.93  Mean  :31.87  Mean  : 5.679
3rd Qu.: 79.75 3rd Qu.:79.00  3rd Qu.:37.00  3rd Qu.:7.000 
Max.   :106.00  Max.  :128.00  Max.  :48.00  Max.  :15.000 
   X6s          Against         Venue        Match.Date      
Min. : 0.000  Length:106  Length:106  Length:106  
1st Qu.: 2.000 Class :character Class :character Class :character
Median : 3.000 Mode  :character Mode  :character Mode  :character
Mean   : 3.755           Mean   : 3.755           Mean   : 3.755
3rd Qu.: 5.000           3rd Qu.: 5.000           3rd Qu.: 5.000
Max.   :11.000           Max.   :11.000           Max.   :11.000
> str(Fastest.Fifties)
'data.frame': 106 obs. of  9 variables:
 $ POS      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ Player    : chr  "KL.Rahul" "Ajinkya.Rahane" "Suresh.Raina" "Kane.Williamson" ...
 $ Runs     : num  50.41 65.42 62.42 50.43 84.44 ...
 $ BF       : num  5 1 7 1 7 3 4 1 2 11 ...
 $ X4s      : num  1 5 2 4 2 1 1 1 1 1 ...
 $ X6s      : num  3.75 3.75 3.75 3.75 3.75 3.75 3.75 3.75 3.75 3.75 ...
 $ Against* : num  4.56 5.92 5.92 5.92 4.56 5.92 5.92 5.92 5.92 4.56 ...
 $ Venue*   : num  22.14 22.14 22.14 22.14 22.14 22.14 22.14 22.14 22.14 22.14 ...
 $ Match.Date*: num  11.26 11.26 11.26 11.26 11.26 11.26 11.26 11.26 11.26 11.26 ...

Environment History Connections Tutorial


Data



- Fastest.Fifties 106 obs. of 9 variables
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Files Plots Packages Help Viewer Presentation



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Home



| Name                    | Size  | Modified               |
|-------------------------|-------|------------------------|
| .Rhistory               | 102 B | Nov 24, 2025, 11:16 AM |
| BackgroundShaker.cs     | 658 B | Aug 1, 2025, 9:17 AM   |
| Custom Office Templates |       |                        |
| desktop.ini             | 402 B | Sep 3, 2025, 9:39 AM   |
| example.html            | 167 B | Aug 2, 2025, 10:37 AM  |
| fuel_sales.csv          | 768 B | Sep 18, 2025, 8:53 AM  |
| GIS DataBase            |       |                        |
| IISExpress              |       |                        |
| My Music                |       |                        |
| My Pictures             |       |                        |
| My Videos               |       |                        |
| My Web Sites            |       |                        |
| R                       |       |                        |



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MVLU COLLEGE

R RACTICAL 3

Console output:

```

Min. : 0.000
1st qu.: 2.000
Median : 3.000
Mean : 3.755
3rd qu.: 5.000
Max. :11.000
> str(Fastest.Fifties)
'data.frame': 106 obs. of 9 variables:
 $ POS   : int  1 2 3 4 5 6 7 8 9 10 ...
 $ Player: chr "KL Rahul" "Ishan Kishan" "Sunil Narine" "Jos Buttler" ...
 $ Runs  : int  51 62 50 67 56 66 63 51 50 50 ...
 $ BF    : int  14 17 17 18 21 22 22 22 22 22 ...
 $ X4s   : int  6 5 4 4 2 2 7 2 5 5 ...
 $ X6s   : int  4 6 5 7 5 7 4 5 3 3 ...
 $ Against: chr "DC" "KKR" "RCB" "DC" ...
 $ Venue  : chr "IS Bindra stadium" "Eden Gardens" "Eden Gardens" "Arun Jaitley stadium" ...
 $ Match.date: chr "08 April 2018" "09 May 2018" "08 April 2018" "02 May 2018" ...
> cat("Dimensions (Rows, Columns): ", dim(Fastest.Fifties), "\n")
Dimensions (Rows, Columns): 106 9
> dim(Fastest.Fifties)
[1] 106 9
> tail(Fastest.Fifties)
   POS      Player Runs BF X4s X6s Against
101 101  Chris Lynn  62 42  7  1   RCB
102 102  Kane Williamson  50 43  4  1   KKR
103 103  KL Rahul  84 44  7  3   RR
104 104  Suresh Raina  61 45  4  2   PBKS
105 105  KL Rahul  95 48 11  2   RR
106 106  Manish Pandey  54 48  3  1   PBKS
                                         Venue Match.Date
101                               M. Chinnaswamy Stadium 29 April 2018
102                               Eden Gardens 14 April 2018
103                               Holkar Cricket Stadium 06 May 2018
104 Maharashtra Cricket Association's International Stadium 20 May 2018
105                               Sawai Mansingh Stadium 08 May 2018
106 Rajiv Gandhi Int'l. Cricket Stadium 26 April 2018
  
```

Environment pane shows two datasets: Fastest.Fifties (106 obs. of 9 variables) and Fastest.Fifties (107 obs. of 9 variables).

File Explorer pane shows the project structure with files like .Rhistory, BackgroundShaker.cs, desktop.ini, example.html, fuel_sales.csv, GIS DataBase, IISExpress, My Music, My Pictures, My Videos, My Web Sites, and R.

Console output:

```

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Mean : 3.755
3rd qu.: 5.000
Max. :11.000
> str(Fastest.Fifties)
'data.frame': 106 obs. of 9 variables:
 $ POS   : int  1 2 3 4 5 6 7 8 9 10 ...
 $ Player: chr "KL Rahul" "Ishan Kishan" "Sunil Narine" "Jos Buttler" ...
 $ Runs  : int  51 62 50 67 56 66 63 51 50 50 ...
 $ BF    : int  14 17 17 18 21 22 22 22 22 22 ...
 $ X4s   : int  6 5 4 4 2 2 7 2 5 5 ...
 $ X6s   : int  4 6 5 7 5 7 4 5 3 3 ...
 $ Against: chr "DC" "KKR" "RCB" "DC" ...
 $ Venue  : chr "IS Bindra stadium" "Eden Gardens" "Eden Gardens" "Arun Jaitley stadium" ...
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> cat("Dimensions (Rows, Columns): ", dim(Fastest.Fifties), "\n")
Dimensions (Rows, Columns): 106 9
> dim(Fastest.Fifties)
[1] 106 9
> tail(Fastest.Fifties)
   POS      Player Runs BF X4s X6s Against
101 101  Chris Lynn  62 42  7  1   RCB
102 102  Kane Williamson  50 43  4  1   KKR
103 103  KL Rahul  84 44  7  3   RR
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105 105  KL Rahul  95 48 11  2   RR
106 106  Manish Pandey  54 48  3  1   PBKS
                                         Venue Match.Date
101                               M. Chinnaswamy Stadium 29 April 2018
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105                               Sawai Mansingh Stadium 08 May 2018
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Environment pane shows two datasets: Fastest.Fifties (106 obs. of 9 variables) and Fastest.Fifties (107 obs. of 9 variables).

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