

```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function Addins
data frame.R
Source on Save Run Source
1 #Create a data frame with all the variables in the excel file
2 Sn <- c("2020-08935-MN-0", "2020-12230-MN-0", "2020-12397-MN-0", "2020-08938-MN-0", "2020-1147
3 Gender <- c("MALE", "FEMALE", "MALE", "MALE", "MALE", "MALE", "MALE", "MALE", "MALE", "FEMALE")
4 Age <- c(19, 19, 19, 19, 19, 19, 20, 19, 18, 19, 19, 18, 19, 18, 20, 20, 19, 18, 19, 18, 18, 1
5 Fs <- c("SCIENCE", "SCIENCE", "SCIENCE", "SCIENCE", "SCIENCE", "SCIENCE", "SCIENCE", "ENGLISH", "SCIENCE"
6 Fc <- c("BLUE", "YELLOW", "BLUE", "BLUE", "RED", "BLUE", "YELLOW", "YELLOW", "BLUE", "RED", "B
7 Height <- c(171, 154, 165, 165, 166, 160, 162, 167, 169, 162, 175, 161, 172, 175, 173, 174, 15
8 Weight <- c(73, 48, 60, 45, 51, 53, 60, 45, 48, 54, 65, 65, 91, 68, 75, 49, 60, 68, 57, 58, 49
9 Gim <- c(89, 95, 90, 94, 95, 90, 85, 89, 83, 93, 88, 85, 94, 96, 87, 92, 94, 96, 94, 92, 83, 8
10 Gisap <- c(89, 94, 93, 97, 89, 94, 87, 89, 87, 94, 91, 87, 93, 95, 95, 94, 94, 95, 91, 95, 91,
11 Gis <- c(90, 91, 90, 94, 94, 93, 85, 88, 85, 94, 93, 89, 92, 96, 90, 93, 92, 96, 92, 90, 86, 9
12 Gimail <- c(92, 97, 95, 96, 91, 98, 93, 89, 85, 93, 97, 96, 90, 95, 97, 92, 94, 95, 92, 94, 89
13
14
15 #data frame
16 description <- data.frame(Sn, Gender, Age, Fs, Fc, Height, Weight, Gim, Gisap, Gis, Gimail)
```

```
Console Terminal Jobs
~/
> source('~\SCH00L\1ST YEAR - 2ND SEM\EDA\GROUP ACT\data frame.R')
> View(description)
> |
```

RStudio

Project: (None)

EnvironmentHistoryConnectionsTutorial

Import Dataset

RGlobal Environment

Data

description22 obs. of 11 variables

Values

Age	num [1:22]	19 19 19 19 19 19 20 19 18 19 ...
Fc	chr [1:22]	"BLUE" "YELLOW" "BLUE" "BLUE" "RED" "BLUE" "YE...
Fs	chr [1:22]	"SCIENCE" "SCIENCE" "SCIENCE" "SCIENCE" "SCIENCE" "SCIEN...
Gender	chr [1:22]	"MALE" "FEMALE" "MALE" "MALE" "MALE" "MALE" "M...
Gim	num [1:22]	89 95 90 94 95 90 85 89 83 93 ...
Gimail	num [1:22]	92 97 95 96 91 98 93 89 85 93 ...
Gis	num [1:22]	90 91 90 94 94 93 85 88 85 94 ...
Gisap	num [1:22]	89 94 93 97 89 94 87 89 87 94

FilesPlotsPackagesHelpViewer

InstallUpdate

Name	Description	Version
User Library		
<input type="checkbox"/> abind	Combine Multidimensional Arrays	1.4-5
<input type="checkbox"/> arm	Data Analysis Using Regression and Multilevel/Hierarchical Models	1.11-2
<input type="checkbox"/> backports	Reimplementations of Functions Introduced Since R-3.0.0	1.2.1
<input type="checkbox"/> base64enc	Tools for base64 encoding	0.1-3
<input type="checkbox"/> cellranger	Translate Spreadsheet Cell Ranges to Rows and Columns	1.1.0
<input type="checkbox"/> checkmate	Fast and Versatile Argument Checks	2.0.0
<input type="checkbox"/> cli	Helpers for Developing Command Line Interfaces	2.4.0
<input type="checkbox"/> coda	Output Analysis and Diagnostics for MCMC	0.19-4
<input type="checkbox"/> colorspace	A Toolbox for Manipulating and Assessing Colors and Palettes	2.0-0
<input type="checkbox"/> corpcor	Efficient Estimation of Covariance and (Partial) Correlation	1.6.9
<input type="checkbox"/> crayon	Colored Terminal Output	1.4.1
<input type="checkbox"/> data.table	Extension of `data.frame`	1.14.0
<input type="checkbox"/> digest	Create Compact Hash Digests of R Objects	0.6.27
<input type="checkbox"/> ellipsis	Tools for Working with ...	0.3.1
<input type="checkbox"/> evaluate	Parsing and Evaluation Tools that Provide More Details than the Default	0.14
<input type="checkbox"/> fansi	ANSI Control Sequence Aware String Functions	0.4.2
<input type="checkbox"/> farver	High Performance Colour Space Manipulation	2.1.0

 List
 

Environment History Connections Tutorial

R | Global Environment

COE\_1\_3\_EDA 22 obs. of 11 variables

description	22 obs. of 11 variables
-------------	-------------------------

my_data_frame	22 obs. of 11 variables
---------------	-------------------------

new_data_frame	1 obs. of 11 variables
----------------	------------------------

Values
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Age	num [1:22] 19 19 19 19 19 19 20 19 18 19 ...
-----	--

Fave_Sub	chr [1:22] "SCIENCE" "SCIENCE" "SCIENCE" "SCIENCE" "SCIEN..."
----------	---

Fc	chr [1:22] "BLUE" "YELLOW" "BLUE" "BLUE" "RED" "BLUE" "YE...
----	--

Fs	chr [1:22] "SCIENCE" "SCIENCE" "SCIENCE" "SCIENCE" "SCIEN..."
----	---

Files Plots Packages Help Viewer

File Edit View Manager Help Window

New Folder Delete Rename More

Home

	Name	Size	Modified
	35.1	355 B	11/20/2021 3:51 AM

.RData	866 B	Apr 30, 2021, 3:51 AM
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		.Rhistory	20 KB	May 1, 2021, 12:42 PM
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APPS

decktop.ini 402 R Mar 17 2021 9:56 AM

FOR SALE

McAfee Vaults

  MUSIC

My Music

☐ My Music

My Pictures

My Videos

PHOTOSHOP EDITS

☐  SCHOOL

```

16 description <- data.frame(Sn, Gender, Age, Fs, Fc, Height, Weight, Gim, Gisap, Gis, Gmail)
17
18
19
20 #Take all male who like color blue and at most 60 kilos
21 #Create a data from Encoded data file
22 attach(COE_1_3_EDA)
23
24 #Extract all variables needed
25 Sex <- COE_1_3_EDA$GENDER
26 Fave_Color <- COE_1_3_EDA$FAVORITE_COLOR`
27 Weight <- COE_1_3_EDA$WEIGHT
28
29 #Create a data frame from the encoded data file with all the variables needed
30 my_data_frame <- data.frame(Sn, Gender, Age, Fs, Fc, Height, Weight, Gim, Gisap, Gis, Gmail)
31
32 #Create a subset data frame that satisfy all conditions
33 new_data_frame <- subset(my_data_frame, Gender=="MALE" & Fc=="BLUE" & Weight<=60)
34
35

```

34:1 (Top Level) R Script

Console Terminal Jobs

```

~/
> new_data_frame

```

	Sn	Gender	Age	Fs	Fc	Height	Weight	Gim	Gisap	Gis	Gmail
3	2020-12397-MN-0	MALE	19	SCIENCE	BLUE	165	60	90	93	90	95
4	2020-08938-MN-0	MALE	19	SCIENCE	BLUE	165	45	94	97	94	96
6	2020-08929-MN-0	MALE	19	SCIENCE	BLUE	160	53	90	94	93	98
9	2020-12351-MN-0	MALE	18	ENGLISH	BLUE	169	48	83	87	85	85
16	2020-08937-MN-0	MALE	20	MATH	BLUE	174	49	92	94	93	92
20	2020-12381-MN-0	MALE	18	MATH	BLUE	176	58	92	95	90	94

```

>

```

Environment History Connections Tutorial

Import Dataset

R Global Environment

Data

COE_1_3_EDA	22 obs. of 11 variables	
description	22 obs. of 11 variables	
my_data_frame	22 obs. of 11 variables	
new_data_frame	6 obs. of 11 variables	

Values

Age	num [1:22]	19 19 19 19 19 19 20 19 18 19 ...
Fave_Color	chr [1:22]	"BLUE" "YELLOW" "BLUE" "BLUE" "RED" "BLUE" "YE...
Fc	chr [1:22]	"BLUE" "YELLOW" "BLUE" "BLUE" "RED" "BLUE" "YE...
Fs	chr [1:22]	"SCIENCE" "SCIENCE" "SCIENCE" "SCIENCE" "SCIEN...

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New Folder Delete Rename More

Home

	Name	Size	Modified
	.RData	866 B	Apr 30, 2021, 3:51 AM
	.Rhistory	20 KB	May 1, 2021, 12:42 PM
	Adobe Photoshop CS6 1.2 Extended Portable 64-Bit		
	APPS		
	desktop.ini	402 B	Mar 17, 2021, 9:56 AM
	FILMORA		
	FONT		
	FOR SALE		
	McAfee Vaults		
	MUSIC		
	My Music		
	My Pictures		
	My Videos		
	PHOTOSHOP EDITS		
	R		
	SCHOOL		

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Untitled2\* COE\_1\_3\_EDA 2.3.R

Source on Save Run Source

```
14
15 #Data frame
16 description <- data.frame(Sn, Gender, Age, Fs, Fc, Height, Weight, Gim, Gisap, Gis, Gmail)
17
18 #Take all female who like color yellow and more than 150 cm
19 #Create a data from Encoded data file
20 attach(COE_1_3_EDA)
21
22 #Extract all variables needed
23 Sex <- COE_1_3_EDA$GENDER
24 Fave_Color <- COE_1_3_EDA$`FAVORITE COLOR`
25 Height <- COE_1_3_EDA$HEIGHT
26
27 #Create a data frame from the encoded data file with all the variables needed
28 my_data_frame <- data.frame(Sn, Gender, Age, Fs, Fc, Height, Weight, Gim, Gisap, Gis, Gmail)
29
30 #Create a subset data frame that satisfy all conditions
31 new_data_frame <- subset(my_data_frame, Gender=="FEMALE" & Fc=="YELLOW" & Height>150)
32
33
```

33:1 (Top Level) R Script

Console Terminal Jobs

```
> new_data_frame
      Sn Gender Age    Fs    Fc Height Weight Gim Gisap Gis Gmail
2 2020-12230-MN-0 FEMALE 19 SCIENCE YELLOW 154    48 95    94 91    97
22 2020-12827-MN-0 FEMALE 18 ENGLISH YELLOW 156    43 85    88 95    95
>
> |
```

Project: (None)

Environment History Connections Tutorial

Import Dataset

R Global Environment

Data

COE_1_3_EDA	22 obs. of 11 variables	
description	22 obs. of 11 variables	
my_data_frame	22 obs. of 11 variables	
new_data_frame	2 obs. of 11 variables	

Values

Age	num [1:22]	19 19 19 19 19 19 20 19 18 19 ...
Fave_Color	chr [1:22]	"BLUE" "YELLOW" "BLUE" "BLUE" "RED" "BLUE" "YE...
Fc	chr [1:22]	"BLUE" "YELLOW" "BLUE" "BLUE" "RED" "BLUE" "YE...
Fs	chr [1:22]	"SCIENCE" "SCIENCE" "SCIENCE" "SCIENCE" "SCIEN...

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	Name	Size	Modified
<input type="checkbox"/>	.RData	866 B	Apr 30, 2021, 3:51 AM
<input type="checkbox"/>	.Rhistory	20 KB	May 1, 2021, 12:42 PM
<input type="checkbox"/>	Adobe Photoshop CS6 1.2 Extended Portable 64-Bit		
<input type="checkbox"/>	APPS		
<input type="checkbox"/>	desktop.ini	402 B	Mar 17, 2021, 9:56 AM
<input type="checkbox"/>	FILMORA		
<input type="checkbox"/>	FONT		
<input type="checkbox"/>	FOR SALE		
<input type="checkbox"/>	McAfee Vaults		
<input type="checkbox"/>	MUSIC		
<input type="checkbox"/>	My Music		
<input type="checkbox"/>	My Pictures		
<input type="checkbox"/>	My Videos		
<input type="checkbox"/>	PHOTOSHOP EDITS		
<input type="checkbox"/>	R		
<input type="checkbox"/>	SCHOOL		

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Untitled2\* 2.4.R COE\_1\_3\_EDA

Source on Save Run Source

```
15 #Data frame
16 description <- data.frame(Sn, Gender, Age, Fs, Fc, Height, Weight, Gim, Gisap, Gis, Gimail)
17
18 #Take all female who like math subject and color green
19 #Create a data from Encoded data file
20 attach(COE_1_3_EDA)
21
22 #Extract all variables needed
23 Sex <- COE_1_3_EDA$GENDER
24 Fave_Sub <- COE_1_3_EDA$FAVORITE SUBJECT`
25 Fave_Color <- COE_1_3_EDA$FAVORITE COLOR`
26
27
28 #Create a data frame from the encoded data file with all the variables needed
29 my_data_frame <- data.frame(Sn, Gender, Age, Fs, Fc, Height, Weight, Gim, Gisap, Gis, Gimail)
30
31 #Create a subset data frame that satisfy all conditions
32 new_data_frame <- subset(my_data_frame, Gender=="FEMALE" & Fc=="GREEN" & Fs=="MATH")
33
34
```

33:1 (Top Level) R Script

Console Terminal Jobs

```
> new_data_frame
[1] Sn      Gender Age    Fs      Fc      Height Weight Gim    Gisap  Gis    Gimail
<0 rows> (or 0-length row.names)
>
```

Project: (None)

Environment History Connections Tutorial

Import Dataset

R Global Environment

Data

COE_1_3_EDA	22 obs. of 11 variables	
description	22 obs. of 11 variables	
my_data_frame	22 obs. of 11 variables	
new_data_frame	0 obs. of 11 variables	

Values

Age	num [1:22]	19 19 19 19 19 19 20 19 18 19 ...
Fave_Color	chr [1:22]	"BLUE" "YELLOW" "BLUE" "BLUE" "RED" "BLUE" "YE...
Fave_Sub	chr [1:22]	"SCIENCE" "SCIENCE" "SCIENCE" "SCIENCE" "SCIEN...
Fc	chr [1:22]	"BLUE" "YELLOW" "BLUE" "BLUE" "RED" "BLUE" "YE...

Files Plots Packages Help Viewer

New Folder Delete Rename More

Home

	Name	Size	Modified
<input type="checkbox"/>	.RData	866 B	Apr 30, 2021, 3:51 AM
<input type="checkbox"/>	.Rhistory	20 KB	May 1, 2021, 12:42 PM
<input type="checkbox"/>	Adobe Photoshop CS6 1.2 Extended Portable 64-Bit		
<input type="checkbox"/>	APPS		
<input type="checkbox"/>	desktop.ini	402 B	Mar 17, 2021, 9:56 AM
<input type="checkbox"/>	FILMORA		
<input type="checkbox"/>	FONT		
<input type="checkbox"/>	FOR SALE		
<input type="checkbox"/>	McAfee Vaults		
<input type="checkbox"/>	MUSIC		
<input type="checkbox"/>	My Music		
<input type="checkbox"/>	My Pictures		
<input type="checkbox"/>	My Videos		
<input type="checkbox"/>	PHOTOSHOP EDITS		
<input type="checkbox"/>	R		
<input type="checkbox"/>	SCHOOL		

```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function Addins
Untitled2* 2.6.R Untitled3* COE_1_3_EDA*
Source on Save Run Source
16 description <- data.frame(Sn, Gender, Age, Fs, Fc, Height, Weight, Gim, Gisap, Gis, Gmail)
17
18 #Take all students who like Math and the grade in Math and Statistics and Probability is greater than 95
19 #Create a data from Encoded data file
20 attach(COE_1_3_EDA)
21
22 #Extract all variables needed
23 Sn <- COE_1_3_EDA$`STUDENT NUMBER`
24 Fave_Sub <- COE_1_3_EDA$`FAVORITE SUBJECT`
25 G_i_m <- COE_1_3_EDA$`GRADE IN MATH`
26 G_i_s_a_p <- COE_1_3_EDA$`GRADE IN STATISTICS AND PROBABILITY`
27
28
29 #Create a data frame from the encoded data file with all the variables needed
30 my_data_frame <- data.frame(Sn, Gender, Age, Fs, Fc, Height, Weight, Gim, Gisap, Gis, Gmail)
31
32 #Create a subset data frame that satisfy all conditions
33 new_data_frame <- subset(my_data_frame, Fs=="MATH" & Gim>95 & Gisap>95)
34
35
```

34:1 (Top Level) R Script

Console Terminal Jobs

```
> new_data_frame
[1] Sn      Gender Age    Fs      Fc      Height Weight Gim    Gisap  Gis    Gmail
<0 rows> (or 0-length row.names)
>
```

Project: (None)

Environment History Connections Tutorial

Import Dataset

R Global Environment

Data

COE_1_3_EDA	22 obs. of 11 variables
description	22 obs. of 11 variables
my_data_frame	22 obs. of 11 variables
new_data_frame	0 obs. of 11 variables

Values

Age	num [1:22]	19 19 19 19 19 19 20 19 18 19 ...
Fave_Color	chr [1:22]	"BLUE" "YELLOW" "BLUE" "BLUE" "RED" "BLUE" "YE...
Fave_Sub	chr [1:22]	"SCIENCE" "SCIENCE" "SCIENCE" "SCIENCE" "SCIEN...
Fc	chr [1:22]	"BLUE" "YELLOW" "BLUE" "BLUE" "RED" "BLUE" "YE...

Files Plots Packages Help Viewer

New Folder Delete Rename More

Home

	Name	Size	Modified
<input type="checkbox"/>	.RData	866 B	Apr 30, 2021, 3:51 AM
<input type="checkbox"/>	.Rhistory	20 KB	May 1, 2021, 12:42 PM
<input type="checkbox"/>	Adobe Photoshop CS6 1.2 Extended Portable 64-Bit		
<input type="checkbox"/>	APPS		
<input type="checkbox"/>	desktop.ini	402 B	Mar 17, 2021, 9:56 AM
<input type="checkbox"/>	FILMORA		
<input type="checkbox"/>	FONT		
<input type="checkbox"/>	FOR SALE		
<input type="checkbox"/>	McAfee Vaults		
<input type="checkbox"/>	MUSIC		
<input type="checkbox"/>	My Music		
<input type="checkbox"/>	My Pictures		
<input type="checkbox"/>	My Videos		
<input type="checkbox"/>	PHOTOSHOP EDITS		
<input type="checkbox"/>	R		
<input type="checkbox"/>	SCHOOL		



RStudio

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Go to file/function Addins

Untitled2\* 2.5.R 2.6.R COE\_1\_3\_EDA

Source on Save Run Source

```

15 #Data frame
16 description <- data.frame(Sn, Gender, Age, Fs, Fc, Height, Weight, Gim, Gisap, Gis, Gmail)
17
18 #Take all students who like Science and the grade in Science is greater than 95
19 #Create a data from Encoded data file
20 attach(COE_1_3_EDA)
21
22 #Extract all variables needed
23 Sn <- COE_1_3_EDA$`STUDENT NUMBER`
24 Fave_Sub <- COE_1_3_EDA$`FAVORITE SUBJECT`
25 G_i_s <- COE_1_3_EDA$`GRADE IN SCIENCE`
26
27
28 #Create a data frame from the encoded data file with all the variables needed
29 my_data_frame <- data.frame(Sn, Gender, Age, Fs, Fc, Height, Weight, Gim, Gisap, Gis, Gmail)
30
31 #Create a subset data frame that satisfy all conditions
32 new_data_frame <- subset(my_data_frame, Fs=="SCIENCE" & Gis>95)
33
34

```

23:1 (Top Level) R Script

Console Terminal Jobs

```

~/
> new_data_frame
[1] Sn      Gender Age    Fs      Fc      Height Weight Gim    Gisap  Gis    Gmail
<0 rows> (or 0-length row.names)
>

```

Project: (None)

Environment History Connections Tutorial

Import Dataset

R Global Environment

Data

Variable	Obs.	Variables
COE_1_3_EDA	22	11
description	22	11
my_data_frame	22	11
new_data_frame	0	11

Values

Variable	Type	Values
Age	num [1:22]	19 19 19 19 19 19 20 19 18 19 ...
Fave_Color	chr [1:22]	"BLUE" "YELLOW" "BLUE" "BLUE" "RED" "BLUE" "YE...
Fave_Sub	chr [1:22]	"SCIENCE" "SCIENCE" "SCIENCE" "SCIENCE" "SCIEN...
Fc	chr [1:22]	"BLUE" "YELLOW" "BLUE" "BLUE" "RED" "BLUE" "YE...

Files Plots Packages Help Viewer

New Folder Delete Rename More

Home

Name	Size	Modified
.RData	866 B	Apr 30, 2021, 3:51 AM
.Rhistory	20 KB	May 1, 2021, 12:42 PM
Adobe Photoshop CS6 1.2 Extended Portable 64-Bit		
APPS		
desktop.ini	402 B	Mar 17, 2021, 9:56 AM
FILMORA		
FONT		
FOR SALE		
McAfee Vaults		
MUSIC		
My Music		
My Pictures		
My Videos		
PHOTOSHOP EDITS		
R		
SCHOOL		

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Untitled2\* COE\_1\_3\_EDA\* Untitled3\*

Source on Save Run Source

```
15 #Data frame
16 description <- data.frame(Sn, Gender, Age, Fs, Fc, Height, Weight, Gim, Gisap, Gis, Gimail)
17
18 #Take all students who like English and the grade in English is greater than 95
19 #Create a data from Encoded data file
20 attach(COE_1_3_EDA)
21
22 #Extract all variables needed
23 Sn <- COE_1_3_EDA$`STUDENT NUMBER`
24 Fave_Sub <- COE_1_3_EDA$`FAVORITE SUBJECT`
25 G_i_m_a_i_l <- COE_1_3_EDA$`GRADE IN MEDIA AND INFORMATION LITERACY`
26
27
28 #Create a data frame from the encoded data file with all the variables needed
29 my_data_frame <- data.frame(Sn, Gender, Age, Fs, Fc, Height, Weight, Gim, Gisap, Gis, Gimail)
30
31 #Create a subset data frame that satisfy all conditions
32 new_data_frame <- subset(my_data_frame, Fs=="ENGLISH" & Gimail>95)
33
34
```

33:1 (Top Level) R Script

Console Terminal Jobs

```
> new_data_frame
      Sn Gender Age   Fs   Fc Height Weight Gim Gisap Gis Gimail
12 2020-09950-MN-0 MALE 18 ENGLISH GREEN   161    65  85   87  89   96
>
```

Environment History Connections Tutorial

Import Dataset

R Global Environment

Data

COE_1_3_EDA	22 obs. of 11 variables
description	22 obs. of 11 variables
my_data_frame	22 obs. of 11 variables
new_data_frame	1 obs. of 11 variables

Values

Age	num [1:22]	19 19 19 19 19 19 20 19 18 19 ...
Fave_Sub	chr [1:22]	"SCIENCE" "SCIENCE" "SCIENCE" "SCIENCE" "SCIEN..."
Fc	chr [1:22]	"BLUE" "YELLOW" "BLUE" "BLUE" "RED" "BLUE" "YE..."
Fs	chr [1:22]	"SCIENCE" "SCIENCE" "SCIENCE" "SCIENCE" "SCIEN..."

Files Plots Packages Help Viewer

New Folder Delete Rename More

Home

	Name	Size	Modified
<input type="checkbox"/>	.RData	866 B	Apr 30, 2021, 3:51 AM
<input type="checkbox"/>	.Rhistory	20 KB	May 1, 2021, 12:42 PM
<input type="checkbox"/>	Adobe Photoshop CS6 1.2 Extended Portable 64-Bit		
<input type="checkbox"/>	APPS		
<input type="checkbox"/>	desktop.ini	402 B	Mar 17, 2021, 9:56 AM
<input type="checkbox"/>	FILMORA		
<input type="checkbox"/>	FONT		
<input type="checkbox"/>	FOR SALE		
<input type="checkbox"/>	McAfee Vaults		
<input type="checkbox"/>	MUSIC		
<input type="checkbox"/>	My Music		
<input type="checkbox"/>	My Pictures		
<input type="checkbox"/>	My Videos		
<input type="checkbox"/>	PHOTOSHOP EDITS		
<input type="checkbox"/>	R		
<input type="checkbox"/>	SCHOOL		



RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

EDA GROUP 1.R \*

```
1
2 values <- c(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20)
3 cn <- c("A", "B", "C", "D", "E")
4 rn <- c("Red", "Blue", "Yellow", "Green")
5
6 data <- matrix(values, nrow = 4, ncol = 5, byrow = FALSE, dimnames = list(rn,cn))
7
```

7:1 (Top Level) R Script

Console Terminal Jobs

```
~/
> source('D:/PROGRAM FILES/RStudio/programs/EDA GROUP 1.R')
> (data)
  A B C D E
Red 1 5 9 13 17
Blue 2 6 10 14 18
Yellow 3 7 11 15 19
Green 4 8 12 16 20
> |
```

Project: (None)

Environment History Connections Tutorial

Import Dataset

R Global Environment

data num [1:4, 1:5] 1 2 3 4 5 6 7 8 9 10 ...

Values

ChewingGum	148.285714285714
cn	chr [1:5] "A" "B" "C" "D" "E"
FirstLast	7.45454545454545
Nectar	375.272727272727
Punch	365.272727272727
rn	chr [1:4] "Red" "Blue" "Yellow" "Green"
values	num [1:20] 1 2 3 4 5 6 7 8 9 10 ...

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Install Update

Name	Description	Version
<b>System Library</b>		
<input checked="" type="checkbox"/> base	The R Base Package	4.0.5
<input type="checkbox"/> boot	Bootstrap Functions (Originally by Angelo Canty for S)	1.3-27
<input type="checkbox"/> class	Functions for Classification	7.3-18
<input type="checkbox"/> cluster	"Finding Groups in Data": Cluster Analysis Extended Rousseeuw et al.	2.1.1
<input type="checkbox"/> codetools	Code Analysis Tools for R	0.2-18
<input type="checkbox"/> compiler	The R Compiler Package	4.0.5
<input checked="" type="checkbox"/> datasets	The R Datasets Package	4.0.5
<input type="checkbox"/> foreign	Read Data Stored by 'Minitab', 'S', 'SAS', 'SPSS', 'Stata', 'Systat', 'Weka', 'dBase', ...	0.8-81
<input checked="" type="checkbox"/> graphics	The R Graphics Package	4.0.5
<input checked="" type="checkbox"/> grDevices	The R Graphics Devices and Support for Colours and Fonts	4.0.5
<input type="checkbox"/> grid	The Grid Graphics Package	4.0.5
<input type="checkbox"/> KernSmooth	Functions for Kernel Smoothing Supporting Wand & Jones (1995)	2.23-18

RStudio

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Go to file/function Addins

EDA GROUP 1.R

```
1
2 values <- c(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20)
3 cn <- c("A", "B", "C", "D", "E")
4 rn <- c("Red", "Blue", "Yellow", "Green")
5
6 data <- matrix(values, nrow = 4, ncol = 5, byrow = TRUE, dimnames = list(rn,cn))
7
```

6:56 (Top Level) R Script

Console

```
> source('D:/PROGRAM FILES/RStudio/programs/EDA GROUP 1.R')
> (data)
  A B C D E
Red  1 5 9 13 17
Blue 2 6 10 14 18
Yellow 3 7 11 15 19
Green 4 8 12 16 20
> source('D:/PROGRAM FILES/RStudio/programs/EDA GROUP 1.R')
> (data)
  A B C D E
Red  1 2 3 4 5
Blue  6 7 8 9 10
Yellow 11 12 13 14 15
Green 16 17 18 19 20
>
```

Project: (None)

Environment History Connections Tutorial

Import Dataset

R Global Environment

data num [1:4, 1:5] 1 6 11 16 2 / 12 17 3 8 ...

Values

ChewingGum	148.285714285714
cn	chr [1:5] "A" "B" "C" "D" "E"
FirstLast	7.45454545454545
Nectar	375.272727272727
Punch	365.272727272727
rn	chr [1:4] "Red" "Blue" "Yellow" "Green"
values	num [1:20] 1 2 3 4 5 6 7 8 9 10 ...

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RStudio

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Go to file/function Addins

EDA GROUP 1.R

```
1
2 values <- c(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20)
3 cn <- c("A", "B", "C", "D", "E")
4 rn <- c("Red", "Blue", "Yellow", "Green")
5
6 data <- matrix(values, nrow = 4, ncol = 5, byrow = TRUE, dimnames = list(rn,cn))
7
```

6:56 (Top Level) R Script

Console

```
~/
Blue 2 6 10 14 18
Yellow 3 7 11 15 19
Green 4 8 12 16 20
> source('D:/PROGRAM FILES/RStudio/programs/EDA GROUP 1.R')
> (data)
      A B C D E
Red   1 2 3 4 5
Blue  6 7 8 9 10
Yellow 11 12 13 14 15
Green 16 17 18 19 20
> data[,c(1,3,4)]
      A C D
Red   1 3 4
Blue  6 8 9
Yellow 11 13 14
Green 16 18 19
>
```

Project: (None)

Environment History Connections Tutorial

Import Dataset

R Global Environment

data num [1:4, 1:5] 1 6 11 16 2 / 12 17 3 8 ...

Values

ChewingGum	148.285714285714
cn	chr [1:5] "A" "B" "C" "D" "E"
FirstLast	7.45454545454545
Nectar	375.272727272727
Punch	365.272727272727
rn	chr [1:4] "Red" "Blue" "Yellow" "Green"
values	num [1:20] 1 2 3 4 5 6 7 8 9 10 ...

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RStudio

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Go to file/function Addins

EDA GROUP 1.R

```
1
2 values <- c(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20)
3 cn <- c("A", "B", "C", "D", "E")
4 rn <- c("Red", "Blue", "Yellow", "Green")
5
6 data <- matrix(values, nrow = 4, ncol = 5, byrow = TRUE, dimnames = list(rn,cn))
7
```

6:56 (Top Level) R Script

Console Terminal Jobs

```
> (data)
  Red   A B C D E
Blue   6 7 8 9 10
Yellow 11 12 13 14 15
Green 16 17 18 19 20
> data[,c(1,3,4)]
  A C D
Red  1 3 4
Blue 6 8 9
Yellow 11 13 14
Green 16 18 19
> data[c(2,3),]
  A B C D E
Blue 6 7 8 9 10
Yellow 11 12 13 14 15
> |
```

Project: (None)

Environment History Connections Tutorial

Global Environment

data num [1:4, 1:5] 1 6 11 16 2 / 12 1 / 3 8 ...

Values

ChewingGum	148.285714285714
cn	chr [1:5] "A" "B" "C" "D" "E"
FirstLast	7.45454545454545
Nectar	375.272727272727
Punch	365.272727272727
rn	chr [1:4] "Red" "Blue" "Yellow" "Green"
values	num [1:20] 1 2 3 4 5 6 7 8 9 10 ...

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<input type="checkbox"/> KernSmooth	Functions for Kernel Smoothing Supporting Wand & Jones (1995)	2.23-18

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Go to file/function Addins

EDA GROUP 1.R\*

```
1 #MATRIX
2
3 values <- c(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20)
4 cn <- c("A", "B", "C", "D", "E")
5 rn <- c("Red", "Blue", "Yellow", "Green")
6
7 data <- matrix(values, nrow = 4, ncol = 5, byrow = TRUE, dimnames = list(rn,cn))
8
9 #LIST
10
11 artists <- list(x=1:40, y=seq(1,20), z=c("NCT", "Twice", "Big Bang", "EXO", "Day6"))
12
```

12:1 (Top Level) R Script

Console

```
~/
Green 16 18 19
> data[c(2,3),]
      A B C D E
Blue   6 7 8 9 10
Yellow 11 12 13 14 15
> artists <- list(x=1:40, y=seq(1,20), z=c("NCT", "Twice", "Big Bang", "EXO", "Day6"))
> (artists)
$x
 [1]  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
[27] 27 28 29 30 31 32 33 34 35 36 37 38 39 40

$y
 [1]  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20

$z
 [1] "NCT"      "Twice"     "Big Bang" "EXO"      "Day6"

> |
```

Project: (None)

Environment History Connections Tutorial

R Global Environment

Data

artists	List of 3
data	num [1:4, 1:5] 1 6 11 16 2 7 12 17 3 8 ...

Values

ChewingGum	148.285714285714
cn	chr [1:5] "A" "B" "C" "D" "E"
FirstLast	7.45454545454545
Nectar	375.272727272727
nunch	365.272727272727

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<input checked="" type="checkbox"/> graphics	The R Graphics Package	4.0.5
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```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
+ + + + + Go to file/function + Addins +
Source
Console Terminal x Jobs x
~/
> source('D:/PROGRAM FILES/RStudio/programs/EDA GROUP 1.R')
> (data)
  A B C D E
Red  1 5 9 13 17
Blue 2 6 10 14 18
Yellow 3 7 11 15 19
Green 4 8 12 16 20
> source('D:/PROGRAM FILES/RStudio/programs/EDA GROUP 1.R')
> (data)
  A B C D E
Red  1 2 3 4 5
Blue 6 7 8 9 10
Yellow 11 12 13 14 15
Green 16 17 18 19 20
> data[,c(1,3,4)]
  A C D
Red  1 3 4
Blue 6 8 9
Yellow 11 13 14
Green 16 18 19
> data[c(2,3),]
  A B C D E
Blue 6 7 8 9 10
Yellow 11 12 13 14 15
> artists <- list(x=1:40, y=seq(1,20), z=c("NCT", "Twice", "Big Bang", "EXO", "Day6"))
> (artists)
$x
 [1]  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
[27] 27 28 29 30 31 32 33 34 35 36 37 38 39 40

$y
 [1]  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20

$z
 [1] "NCT"      "Twice"    "Big Bang" "EXO"      "Day6"

>
```

RStudio Project: (None)

Environment History Connections Tutorial

Import Dataset

R Global Environment

Data

artists	List of 3
data	num [1:4, 1:5] 1 6 11 16 2 7 12 17 3 8 ...

Values

ChewingGum	148.285714285714
cn	chr [1:5] "A" "B" "C" "D" "E"
FirstLast	7.45454545454545
Nectar	375.272727272727
nunch	365.272727272727

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