

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

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Project: (None)

Environment History Connections Tutorial

Import Dataset

R Global Environment

Data

Filter1	6 obs. of 11 variables	
mutate1	7 obs. of 12 variables	
rename1	7 obs. of 11 variables	
SAMPLE_DATA_BSC...	22 obs. of 11 variables	
Sample1	7 obs. of 11 variables	
select1	7 obs. of 5 variables	
summarv1	3 obs. of 9 variables	

Files Plots Packages Help Viewer

Install Update

	Name	Description	Version	
<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"/>	cellranger	Translate Spreadsheet Cell Ranges to Rows and Columns	1.1.0	
<input type="checkbox"/>	class	Functions for Classification	7.3-18	
<input type="checkbox"/>	cli	Helpers for Developing Command Line Interfaces	2.5.0	
<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 type="checkbox"/>	crayon	Colored Terminal Output	1.4.1	
<input checked="" type="checkbox"/>	datasets	The R Datasets Package	4.0.5	
<input checked="" type="checkbox"/>	dplyr	A Grammar of Data Manipulation	1.0.5	
<input type="checkbox"/>	ellipsis	Tools for Working with ...	0.3.2	

```
1 #attach file
2 attach(SAMPLE_DATA_BSCOE1_3)
3
4 #dplyr load package
5 library(dplyr)
6
7 #sample function
8 #Taking 30% random sample / filtering fav color red, blue or yellow
9
10 Sample1 <- SAMPLE_DATA_BSCOE1_3 %>% sample_frac(0.3, replace = F)
11
12 # filtering fav color red, blue or yellow
13
14 Filter1 <- Sample1 %>% filter(`FAVORITE COLOR` %in% c("RED","BLUE","YELLOW"))
15
16 #Select
17 #Select Student Number, Favorite Subject, and Grade in 4 subjects
18 select1 <- Sample1 %>% select(`STUDENT NUMBER`, `FAVORITE SUBJECT`,
19 `GRADE IN MEDIA AND INFORMATION LITERACY`, `GRADE IN MEDIA AND INFORMATION LITERACY`,
20 `GRADE IN SCIENCE`, `GRADE IN MATH`)
21
```

34:1 (Top Level) R Script

Console Terminal Jobs

```
D:/Google Downloads/
> view(Sample1)
> view(select1)
> view(select1)
> Filter1 <- Sample1 %>% filter(`FAVORITE COLOR` %in% c("RED","BLUE","YELLOW"))
> view(Filter1)
> view(Filter1)
> #Create a new column and name it as Average. Calculate it as the average of the 4 subjects
> mutate1 <- Sample1 %>% mutate(AVERAGE=(`GRADE IN MATH` + `GRADE IN SCIENCE`
+ `GRADE IN STATISTICS AND PROBABILITY` + `GRADE IN MEDIA AND INFORMATION LITERACY`)/4)
> view(mutate1)
> view(mutate1)
> view(Sample1)
> view(Sample1)
>
```

RStudio

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NEWDATA\_BSCOE1\_3.RSample1

Filter

	STUDENT NUMBER	GENDER	AGE	FAVORITE SUBJECT	FAVORITE COLOR	HEIGHT	WEIGHT	GRADE IN MATH	GRADE IN STATISTICS AND PROBABILITY	GRADE IN SCIENCE
1	2020-12230-MN-0	FEMALE	19	SCIENCE	YELLOW	154	48	95	94	95
2	2020-12827-MN-0	FEMALE	18	ENGLISH	YELLOW	156	43	85	88	95
3	2020-12395-MN-0	MALE	18	ENGLISH	BLUE	175	68	96	95	96
4	2020-12407-MN-0	MALE	19	MATH	YELLOW	175	57	94	91	92
5	2020-08935-MN-0	MALE	19	SCIENCE	BLUE	171	73	89	89	90
6	2020-12425-MN-0	FEMALE	19	ENGLISH	RED	162	54	93	94	94
7	2020-08938-MN-0	MALE	19	SCIENCE	BLUE	165	45	94	97	94

Showing 1 to 7 of 7 entries, 11 total columns

ConsoleTerminalJobs

D:/Google Downloads/  
> #attach file  
> attach(SAMPLE\_DATA\_BSCOE1\_3)  
The following objects are masked from SAMPLE\_DATA\_BSCOE1\_3 (pos = 4):  
  
AGE, FAVORITE COLOR, FAVORITE SUBJECT, GENDER, GRADE IN MATH, GRADE IN MEDIA  
AND INFORMATION LITERACY, GRADE IN SCIENCE, GRADE IN STATISTICS AND  
PROBABILITY, HEIGHT, STUDENT NUMBER, WEIGHT  
  
> #dplyr load package  
> library(dplyr)  
> Sample1 <- SAMPLE\_DATA\_BSCOE1\_3 %>% sample\_frac(0.3, replace = F)  
> view(Sample1)  
> view(Sample1)  
> |

EnvironmentHistoryConnectionsTutorial

Import Dataset

RGlobal Environment

Data

Filter1	6 obs. of 11 variables
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Sample1	7 obs. of 11 variables
select1	7 obs. of 5 variables
summary1	3 obs. of 9 variables

FilesPlotsPackagesHelpViewer

InstallUpdate

Name	Description	Version
System Library		
<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
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<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
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<input checked="" type="checkbox"/> datasets	The R Datasets Package	4.0.5
<input checked="" type="checkbox"/> dplyr	A Grammar of Data Manipulation	1.0.5
<input type="checkbox"/> ellipsis	Tools for Working with ...	0.3.2



RStudio

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Environment History Connections Tutorial

Import Dataset

R Global Environment

Data

- Filter1 7 obs. of 11 variables
- mutate1 7 obs. of 12 variables
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- Sample1 7 obs. of 11 variables
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Files Plots Packages Help Viewer

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Showing 1 to 7 of 7 entries, 11 total columns

Console Terminal Jobs

D:/Google Downloads/

```
AGE, FAVORITE COLOR, FAVORITE SUBJECT, GENDER, GRADE IN MATH, GRADE IN MEDIA  
AND INFORMATION LITERACY, GRADE IN SCIENCE, GRADE IN STATISTICS AND  
PROBABILITY, HEIGHT, STUDENT NUMBER, WEIGHT
```

```
> #dplyr load package  
> library(dplyr)  
> Sample1 <- SAMPLE_DATA_BSCOE1_3 %>% sample_frac(0.3, replace = F)  
> view(Sample1)  
> view(Sample1)  
> Filter1 <- Sample1 %>% filter(`FAVORITE COLOR` %in% c("RED", "BLUE", "YELLOW"))  
> view(Filter1)  
> view(Filter1)  
> |
```

RStudio

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Go to file/function Addins

Project: (None)

Environment History Connections Tutorial

Import Dataset List

R Global Environment

Data

Filter1	7 obs. of 11 variables
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<input checked="" type="checkbox"/>	dplyr	A Grammar of Data Manipulation	1.0.5
<input type="checkbox"/>	ellipsis	Tools for Working with ...	0.3.2

```
15
16 #select
17 #Select Student Number, Favorite Subject, and Grade in 4 subjects
18 select1 <- Sample1 %>% select(`STUDENT NUMBER`, `FAVORITE SUBJECT`,
19 `GRADE IN MEDIA AND INFORMATION LITERACY`, `GRADE IN MEDIA AND INFORMATION LITERACY`,
20 `GRADE IN SCIENCE`, `GRADE IN MATH`)
21
22 #Rename
23 rename1 <- Sample1 %>% rename(Student_Number=`STUDENT NUMBER`, Gender=GENDER,
24 Age=AGE, Favorite_Subject=`FAVORITE SUBJECT`, Favorite_Color=`FAVORITE COLOR`, Height=HEIGHT,
25 weight=WEIGHT, Grade_In_Math=`GRADE IN MATH`,
26 Grade_In_Statistics_And_Probability=`GRADE IN STATISTICS AND PROBABILITY`,
27 Grade_In_Science=`GRADE IN SCIENCE`,
28 Grade_In_Media_And_Information_Literacy=`GRADE IN MEDIA AND INFORMATION LITERACY`)
29
30 #Create a new column and name it as Average. Calculate it as the average of the 4 subjects
31 mutate1 <- Sample1 %>% mutate(AVERAGE=(`GRADE IN MATH` + `GRADE IN SCIENCE`
32 + `GRADE IN STATISTICS AND PROBABILITY` + `GRADE IN MEDIA AND INFORMATION LITERACY`)/4)
33
34 #Summary
35
```

16:1 (Top Level) R Script

Console Terminal Jobs

D:/Google Downloads/

```
AGE, FAVORITE COLOR, FAVORITE SUBJECT, GENDER, GRADE IN MATH, GRADE IN MEDIA
AND INFORMATION LITERACY, GRADE IN SCIENCE, GRADE IN STATISTICS AND
PROBABILITY, HEIGHT, STUDENT NUMBER, WEIGHT

> #dplyr load package
> library(dplyr)
> Sample1 <- SAMPLE_DATA_BSCOE1_3 %>% sample_frac(0.3, replace = F)
> view(Sample1)
> view(Sample1)
> Filter1 <- Sample1 %>% filter(`FAVORITE COLOR` %in% c("RED","BLUE","YELLOW"))
> view(Filter1)
> view(Filter1)
> |
```



RStudio

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Environment History Connections Tutorial

Import Dataset

R Global Environment

Data

Filter1	7 obs. of 11 variables	
mutate1	7 obs. of 12 variables	
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Files Plots Packages Help Viewer

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<input type="checkbox"/> cli	Helpers for Developing Command Line Interfaces	2.5.0
<input type="checkbox"/> cluster	"Finding Groups in Data": Cluster Analysis Extended Rousseeuw et al.	2.1.1
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<input type="checkbox"/> crayon	Colored Terminal Output	1.4.1
<input checked="" type="checkbox"/> datasets	The R Datasets Package	4.0.5
<input checked="" type="checkbox"/> dplyr	A Grammar of Data Manipulation	1.0.5
<input type="checkbox"/> ellipsis	Tools for Working with ...	0.3.2

Showing 1 to 7 of 7 entries, 5 total columns

Console Terminal Jobs

```
D:/Google Downloads/
> Sample1 <- SAMPLE_DATA_BSCOE1_3 %>% sample_n(0.3, replace = F)
> view(Sample1)
> view(Sample1)
> Filter1 <- Sample1 %>% filter(`FAVORITE COLOR` %in% c("RED", "BLUE", "YELLOW"))
> view(Filter1)
> view(Filter1)
> #Select
> #Select Student Number, Favorite Subject, and Grade in 4 subjects
> select1 <- Sample1 %>% select(`STUDENT NUMBER`, `FAVORITE SUBJECT`,
+ `GRADE IN MEDIA AND INFORMATION LITERACY`, `GRADE IN MEDIA AND INFORMATION LITERACY`,
+ `GRADE IN SCIENCE`, `GRADE IN MATH`)
> view(select1)
> view(select1)
> |
```

RStudio

FileEditCodeViewPlotsSessionBuildDebugProfileToolsHelp

NEWDATA\_BSCOE1\_3.RSample1Filter1select1rename1

Filter

	Student_Number	Gender	Age	Favorite_Subject	Favorite_Color	Height	Weight	Grade_In_Math	Grade_In_Stat
1	2020-12230-MN-0	FEMALE	19	SCIENCE	YELLOW	154	48	95	
2	2020-12827-MN-0	FEMALE	18	ENGLISH	YELLOW	156	43	85	
3	2020-12395-MN-0	MALE	18	ENGLISH	BLUE	175	68	96	
4	2020-12407-MN-0	MALE	19	MATH	YELLOW	175	57	94	
5	2020-08935-MN-0	MALE	19	SCIENCE	BLUE	171	73	89	
6	2020-12425-MN-0	FEMALE	19	ENGLISH	RED	162	54	93	
7	2020-08938-MN-0	MALE	19	SCIENCE	BLUE	165	45	94	

Showing 1 to 7 of 7 entries, 11 total columns

ConsoleTerminalJobs

D:/Google Downloads/  
+ `GRADE\_IN\_MEDIA\_AND\_INFORMATION\_LITERACY`, `GRADE\_IN\_MEDIA\_AND\_INFORMATION\_LITERACY`,  
+ `GRADE\_IN\_SCIENCE`, `GRADE\_IN\_MATH`)  
> view(select1)  
> view(select1)  
> #Rename  
> rename1 <- Sample1 %>% rename(Student\_Number=`STUDENT NUMBER`, Gender=GENDER,  
+ Age=AGE, Favorite\_Subject=`FAVORITE SUBJECT`, Favorite\_Color=`FAVORITE COLOR`, Height=HEIGHT,  
+ Weight=WEIGHT, Grade\_In\_Math=`GRADE IN MATH`,  
+ Grade\_In\_Statistics\_And\_Probability=`GRADE IN STATISTICS AND PROBABILITY`,  
+ Grade\_In\_Science=`GRADE IN SCIENCE`,  
+ Grade\_In\_Media\_And\_Information\_Literacy=`GRADE IN MEDIA AND INFORMATION LITERACY`)  
> view(rename1)  
> view(rename1)  
> |

EnvironmentHistoryConnectionsTutorial

Import Dataset

RGlobal Environment

Data

Filter1	7 obs. of 11 variables
mutate1	7 obs. of 12 variables
rename1	7 obs. of 11 variables
SAMPLE_DATA_BSC...	22 obs. of 11 variables
Sample1	7 obs. of 11 variables
select1	7 obs. of 5 variables
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FilesPlotsPackagesHelpViewer

InstallUpdate

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System Library		
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Go to file/function Addins

Project: (None)

Environment History Connections Tuto

R Global Environment

Data

- Filter1 7 obs. of 11 variabl...
- mutate1 7 obs. of 12 variabl...
- rename1 7 obs. of 11 variabl...
- SAMPLE\_D... 22 obs. of 11 variabl...
- Sample1 7 obs. of 11 variabl...
- select1 7 obs. of 5 variables
- summarv1 3 obs. of 9 variables

Files Plots Packages Help Viewer

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<strong>System Library</strong>		
<input checked="" type="checkbox"/> base	The R Base Package	4.0.5
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<input type="checkbox"/> cli	Helpers for Developing Command Line Interfaces	2.5.0
<input type="checkbox"/> cluster	"Finding Groups in Data": Cluster Analysis Extended Rousseeuw et al.	2.1.1
<input type="checkbox"/> codet...	Code Analysis Tools	0.2-

Showing 1 to 7 of 7 entries, 12 total columns

Console Terminal Jobs

```
D:/Google Downloads/
> #rename
> rename1 <- Sample1 %>% rename(Student_Number='STUDENT NUMBER', Gender=GENDER,
+ Age=AGE, Favorite_Subject='FAVORITE SUBJECT', Favorite_Color='FAVORITE COLOR', Height=HEIGHT,
+ weight=WEIGHT, Grade_In_Math='GRADE IN MATH',
+ Grade_In_Statistics_And_Probability='GRADE IN STATISTICS AND PROBABILITY',
+ Grade_In_Science='GRADE IN SCIENCE',
+ Grade_In_Media_And_Information_Literacy='GRADE IN MEDIA AND INFORMATION LITERACY')
> view(rename1)
> view(rename1)
> #Create a new column and name it as Average. Calculate it as the average of the 4 subjects
> mutate1 <- Sample1 %>% mutate(AVERAGE=('GRADE IN MATH' + 'GRADE IN SCIENCE'
+ 'GRADE IN STATISTICS AND PROBABILITY' + 'GRADE IN MEDIA AND INFORMATION LITERACY')/4)
> view(mutate1)
> |
```

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Project: (None)

Environment History Connections Tuto

R Global Environment

Data

Object	Size
Filter1	7 obs. of 11 variabl...
mutate1	7 obs. of 12 variabl...
rename1	7 obs. of 11 variabl...
SAMPLE_D...	22 obs. of 11 variab...
Sample1	7 obs. of 11 variabl...
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<b>System Library</b>		
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<input type="checkbox"/> cluster	"Finding Groups in Data": Cluster Analysis Extended Rousseeuw et al.	2.1.1
<input type="checkbox"/> codet...	Code Analysis Tools	0.2-

```

34 #Summary
35 #Summarize the data to find out the mean and standard deviation of the Average column. Summarize the data according to f
36 summary1 <- Sample1 %>% group_by(`FAVORITE SUBJECT`) %>% summarise(mean(`GRADE IN MATH`),
37                                                                    mean(`GRADE IN MEDIA AND INFORMATION LITERACY`),
38                                                                    mean(`GRADE IN SCIENCE`),
39                                                                    mean(`GRADE IN STATISTICS AND PROBABILITY`),
40                                                                    sd(`GRADE IN MATH`),
41                                                                    sd(`GRADE IN MEDIA AND INFORMATION LITERACY`),
42                                                                    sd(`GRADE IN SCIENCE`),
43                                                                    sd(`GRADE IN STATISTICS AND PROBABILITY`))
44
45
46
47
48
49
50
51
52
53
54

```

34:1 (Top Level) R Script

Console Terminal Jobs

D:/Google Downloads/

```

> #Rename
> rename1 <- Sample1 %>% rename(Student_Number=`STUDENT NUMBER`, Gender=GENDER,
+ Age=AGE, Favorite_Subject=`FAVORITE SUBJECT`, Favorite_Color=`FAVORITE COLOR`, Height=HEIGHT,
+ Weight=WEIGHT, Grade_In_Math=`GRADE IN MATH`,
+ Grade_In_Statistics_And_Probability=`GRADE IN STATISTICS AND PROBABILITY`,
+ Grade_In_Science=`GRADE IN SCIENCE`,
+ Grade_In_Media_And_Information_Literacy=`GRADE IN MEDIA AND INFORMATION LITERACY`)
> view(rename1)
> view(rename1)
> #Create a new column and name it as Average. Calculate it as the average of the 4 subjects
> mutate1 <- Sample1 %>% mutate(AVERAGE=(`GRADE IN MATH` + `GRADE IN SCIENCE`
+ + `GRADE IN STATISTICS AND PROBABILITY` + `GRADE IN MEDIA AND INFORMATION LITERACY`)/4)
> view(mutate1)
>

```



