## Creating a csu file in

Using file create in function, a new file can be created from console, or trancates if already exists.

### Syntaxa

file. create (" ").

### Exampler

- \* Create a file
- \* The file created can be seen
- \* In your working directory

# Reading a csu file h

Using read table in function R, files can be read and output 9s shown as as data frame.

Syntax read title read, table (file)

Exr Reading txt file data < read table (file = "GFG, txt")

#Print
print (data)

# Writing into a csu filer

R can create csu file form exporting data frame The water csuco function is used.

To create the CSU file. This file gets created in the working directory.

# (reale a data frame

data < read (sq ("Proput cosu")")

vertual 2- Subset (data, asi Data (start-date)

7 as, Date (2004-10-01°))

# ktribe filtered data into a new file.

wither csy (retual, "Output (su")

newdata 2- read csy ("output (sy")

print (newdata).

#### Data Manipulation in

round (x,n) # round the values of x to n
decimal place
ceiling (x) # creator x of small integers >x
floor (x) # creator x of largest integer <x
as. integer # Truncates real x to integer s
(compare to round (x,o)).

## Statistics

monc) → Lowest value from goven data

mean() → Average value

median() -> Moddle value Q, Q, Q, Q.

Sum() -> Total.

Var() -> # produces the variance (overlance)

matrix.

sdl) -> H standard dewatton

### Transformations

flue num () -> # Parkey frue numbers mm, lowerhange, median, upper hange, max.

Table () -> # frequency counts of entires, ideally the entires are factors (although of works with integers or even reals).

scale chata, scale= i) is a centers around the mean and scales by the sol

# Input and Display in

read table (file name, header = True) ->

thread files with tables in first raw
thread a tab or space delimited file

read table (file name - header = True, sep = "+")

thread csu files

X = c(1:10) -> It create a data vector with

elements 1-10.

West = c(x<sub>1</sub>y<sub>1</sub>) -> It combine them into an x<sub>2</sub>.

Matrix.

Suppose that the data for the analysis Includes the attribute age the age value for the data tuples are 13, 15, 16, 16, 19, 20, 20, 21, 22, 25, 25, 30, 33, 33, 35, 35, 36, 36, 40, 45, 46, 52, 70, And the first quartine and the 3rd quantine of the data. of The first quantile (Q1) is the asm percentile and the third quartile cas is the 75th percentile in a data set \* To find Q, and Q= we first need to Order the data set and find the median court The formula to find the median 4. for odd number of elements in the dataset. Median = WHO/2 the element of the sorbed dataset, where N 95 the numbers of the elements

for even number of elements on the detraction median: (MLTh clement + (MLTh) the element) by of the sorted dectacet, when N 9s the number of elements on the dataset

in the dataset

there we have 26 elements in the dataset, so the median 95 the average of the 13th 2,14th dements, which are la and 20 respectively.

Therefore Q2 = (19420 1/2 = 1915

Now that we have QL, we can find Q1.

and as by Andry the median of the lawer and upper hauses of the data set respectively. For the lower half of the data set, we have the following value.

13, 15, 16, 16, 19.

The median of this settle.

For the upper hour of the data set have

the following values:

Lo, 20, 21, 22, 25, 25, 25, 30, 33, 33, 35, 35,35,

35, 36, 40, 45, 46, 52, 70.

The median of this set is 35.

Therefore the first quartile (Q1) =16; and the though quartile (Q3)=35 '

Q3235 " Thribeing heart sote