SPPH567 TUTORIAL II

TODAY'S TASKS

- Make changes to the data
- Calculate summary statistics
- Make frequency distribution plot (histogram)
- Make Q-Q plot
- Do goodness of fit test

CHANGE DATA TYPE AND VARIABLE NAME

- Go to Variable View in the Data Viewer
- Click on the cell in the column Type for the variable you want to change
- Select the correct type in the dropdown menu.
- You can also change the name of the variable by double clicking the variable name



🛓 Data Viewer									
File Edit Help									
Data View Variable View									
	Variable	Туре	Factor Levels						
1	UID	Double							
2	Community	Character							
3	MainRadon	Char 🖂							
4	Location	Character							
5	Foundation	Factor							
6	Soil	Double							
7	LowerWindow	Integer							
8	Separation	llogical							
9	Heating	Logical							
10	AC	Date							
11	HomeAge1990	Time							
12	RockType	Other							
13	Potential	Character							

CHANGE THE ORDER OF LEVELS FOR CATEGORICAL VARIABLES

Data Viewer File Edit Help) dat	2. Change the order of the levels up/down			
Data View Variable View Variable 1 1 UID 2 Community 3 MainRadon 4 Location 5 Foundation 6 Soil 7 LowerWindow 8 Separation 9 Heating 10 AC 11 HomeAge1990	Type Double Factor Double Factor Factor Factor Factor Factor Factor Factor Factor Factor Factor Factor	Factor Levels (1) ATLIN; (2) BARRIERE; (3) BL (1) Bedroom; (2) Crawl; (3) Kitc (1) NA; (2) Other; (3) Poured; (1) Clay; (2) Loam; (3) NA; (1) Closed; (2) NA; (3) Open; (1) Door; (2) NA; (3) No Door; (1) Electric; (2) Forced Air; (3) F (1) NA; (2) No; (3) Yes;	UEBERRY; (4) BR hen; (4) Laundry lot Water; (4) NA	Levels LOW MOD HIGH	or Editor: Potential ×
12 RockType 13 Potential	Factor Factor	(1) Metamorphic; (2) Plutonic; (3 (1) HIGH; (2) LOW; (3) MOD; ick on the tor levels	3) Sedimentary; (Contra	osts Ordered OK Cancel

DROP/ADD A LEVEL FOR CATEGORICAL VARIABLES

Sile Data	ata Viewer Edit Help Landow Variable View	Turo	Easter Levels	A should not e a level, so drop it	(df) dat	Data Set	×
1 2 3 4 5 6 7 8 9 10 11 11 12 13	UID Community MainRadon Location Foundation Soil LowerWindow Separation Heating AC HomeAge1990 RockType Potential	Double Factor Double Factor Factor Factor Factor Factor Factor Factor Factor Factor Factor Factor Factor Factor	(1) ATLIN; (2) BARRIE (1) Bedroom; (2) Crav (1) Other; (2) Poured; (1) Clay; (2) Loam; (3) (1) Closed; (2) NA; (1) (1) Door; (2) NA; (1) (1) Electric; (2) F (2) (1) No; (2) Yes; (1) Metamor (2) (1) LOW; (2) ; (3)	RE; (3) BLUEBERRY; (4) B wl; (3) Kitchen; (4) Laundr NA; Open; No Door; d Air; (3) Hot Water; (4) N Plutonic; (3) Sedimentary; HIGH;	YR YY VA ; (Levels Clay Loam NA Contrasts 0rd	ed
L		I.C Fac	lick on the tor levels column		2. [le	Drop or add a evel with +/-	Cancel

SAVE YOUR WORK ALONG THE WAY!

🧠 Console \times \times File Edit Workspace Data Analysis Plots Extras Packages & Data Window Help Data Set Open 2 **L** ør 🍋 (df) dat Save \sim R IS IF CON'S WILL ADSOLUTELI NO WARKANII ^ You ar Save as... stribu it under certain conditions. Tur cence() "istribution details. ation Foundation Soil LowerWi... Separation Heating AC Clear All R is a corraporative project oom Other Loam Closed Door Electric No Type 'contributors()' for mo: Go back to the Decucer Closed noon Poured Loam Door Hot Water No 'citation()' on how to cite I Other Clay Open No Door Forced Air No noom Console, select "Save" oom Poured Clay Closed No Door Electric No Type 'demo()' for some demos Other Loam Open No Door Forced Air No noor under the menu of help.start()' for an HTML b: Other No Door No noor Clay Open Forced Air Other Clay No Door Hot Water No noor Open Type 'q()' to quit R. Workspace oom Other Clay Open NA Forced Air No Poured Loam Door Electric oom Open No [Previously saved workspace resurrey No Door Poured Closed Forced Air No noon Loam oom Poured Loam Open Door Electric No Poured Loam Open No Door Forced Air No ien Loading required package: JGR Poured Clay Closed No Door Forced Air No Loading required package: rJava No Door Other Loam Closed Forced Air No Loading required package: JavaGD Other Clay NA NA Electric No Loading required package: iplots oom Poured Clay Closed No Door Forced Air No starting httpd help server ... done noon Poured Loam Open Door Other No Loading required package: DeducerExtras Poured No Door Forced Air No Loam Open Loading required package: Deducer oom Poured Loam Open No Door Forced Air No Loading required package: ggplot2 oom Poured Loam Closed No Door Forced Air No Loading required package: car Other Forced Air No oom Loam Open Door Loading required package: MASS noon Poured Loam Open No Door Forced Air No Forced Air No Loading required package: irr room Poured Clay Open No Door Loading required package: lpSolve oom Poured Loam Open No Door Forced Air No Poured No Door Forced Air No noon Loam Open Poured Loam Open No Door Forced Air No v oom oom Other Loam Open No Door Forced Air No ^ oom Poured Loam Open No Door Electric No Poured No Door Forced Air No oom Loam Closed Poured Loam Open No Door Forced Air No oom Poured No Door Forced Air No toom Loam Open v loom Poured Loam Open No Door Forced Air No JJU/INIXIEINE... 1170.0 Poured Loam Open No Door Forced Air No ent\;C:\Program Files\Intel\10 veuroom WindowsPowerShell\v1.0\;C:\Prog 34 34 BARRIERE... 73.7 Bedroom Poured Clay Open NA Forced Air No R) Management Engine Components 35 35 BARRIERE... 266.7 Hot Water No Bedroom Other Clay Open NA iles (x86)\Intel\Intel(R) Mana 36 Forced Air No 36 BARRIERE... 90 Bedroom Poured Loam NA Open iles\Intel\WirelessC... <trunca 37 37 BARRIERE... 477.5 Kitchen Other Loam Open No Door Forced Air No 38 38 BARRIERE... 82.7 Living Poured Loam Open NA Forced Air No 39 BARRIERE... 91.4 Forced Air No 39 Living Poured Loam Open Door s/R/win-library/3.1;C:/Program 40 10 DADDTEDE 700 No Door Enroad Air uments\R\win-library\3.1" ۲ in/iava eve" _cn "C:\Users

After making changes to your dataset, save the workspace to avoid accidents!

LOG TRANSFORM



SUBSTITUTE <LOD VALUES - I





SUMMARY STATISTICS -- FREQUENCIES



SUMMARY STATISTICS – FREQUENCIES (CON'T)





SUMMARY STATISTICS – DESCRIPTIVES (CON'T)





MAKE HISTOGRAM - 2





CHANGE X OR Y LABELS



MAKE HISTOGRAM - 4





MAKE Q-Q PLOT - 2



MAKE Q-Q PLOT - 3



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