SPPH567 TUTORIAL VI

TODAY'S TASKS

- Subset the data
- Recode continuous variable
- Make grouped bar plots
- Cross-tabulation and Chi-squared tests
- Do logistic regression

SUBSET DATA -- I



SUBSET DATA -- 2

🛓 Data Viewer —						- 0	×
File Edit Help							
Data View Variable View			Data Set (df) dat_high ~ (df) dat (df) dat_high			23	
	Variable	Туре	Facto	r Levels			
1	UID	Double				You would see the	
2	Community	Factor	(1) AT	LIN; (2) BARRIERE; (3) BLUE	BERI	and the second	
3	MainRadon	Double				new subsetted data	
4	Location	Factor	(1) Be	droom; (2) Crawl; (3) Kitcher	n; (4		
5	Foundation	Factor	(1) Ot	her; (2) Poured;		appear in your Data	
6	Soil	Factor	(1) Cla	ay; (2) Loam;		\mathbf{X}	
7	LowerWindow	Factor	(1) Clo	osed; (2) Open;		viewer, and you can	
8	Separation	Factor	(1) Do	or; (2) No Door;		a a la at the data a t in	
9	Heating	Factor	(1) Ele	ectric; (2) Forced Air; (3) Hot	Wat	select this dataset in	
10	AC	Factor	(1) No	; (2) Yes;		any of your analyses	
11	HomeAge1990	Integer				any of your analyses	
12	RockType	Factor	(1) Me	etamorphic; (2) Plutonic; (3) S	Sedi	from now on	
13	Potential	Factor	(1) LO	W; (2) MOD; (3) HIGH;		from now on.	
14	MainRadon.tr	Double					
15	Radon_subLOD	Double					
16	Radon_subLODhalf	Double					
17	Radon_subLODhalf.tr	Double					
18	Radon_subLODroot2	Double					
19	Radon_subLODroot2.tr	Double					

SUBSET DATA -- 3

Useful expressions for subsetting data

Potential == "HIGH" Equals

Potential != "HIGH" Not equal to

HomeAge < 20 & Potential == "HIGH" And

HomeAge < 20 | Potential == "HIGH" Or

Potential %in% c("LOW", "MOD")

Is an element of

Note: values in factor or character variables need to be quoted

RECODE CONTINUOUS VARIABLE -- I



RECODE CONTINUOUS VARIABLE -- 2



7

RECODE CONTINUOUS VARIABLE -- 2



8



MAKE GROUPED BAR PLOT -- 2



CROSS-TABULATION AND CHI-SQUARED TESTS -- I



CROSS-TABULATION AND CHI-SQUARED TESTS -- 2





LOGISTIC REGRESSION -- 2

