Week 1 Quiz

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1.

The American Community Survey distributes downloadable data about United States communities. Download the 2006 microdata survey about housing for the state of Idaho using download.file() from here:

https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2Fss06hid.csv (https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2Fss06hid.csv)

and load the data into R. The code book, describing the variable names is here:

https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2FPUMSDataDict06.pdf

(https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2FPUMSDataDict06.pdf)

How many properties are worth \$1,000,000 or more?

- 47
- 31
- 53
- 164

2.

Use the data you loaded from Question 1. Consider the variable FES in the code book. Which of the "tidy data" principles does this variable violate?

Tidy data has variable values that are internally consistent.

	Tidy data has one variable per column.
	Each variable in a tidy data set has been transformed to be interpretable.
	Numeric values in tidy data can not represent categories.
3.	
Downl	oad the Excel spreadsheet on Natural Gas Aquisition Program here:
https:/ sx	/d396qusza40orc.cloudfront.net/getdata%2Fdata%2FDATA.gov_NGAP.xl
(https:/ lsx)	//d396qusza40orc.cloudfront.net/getdata%2Fdata%2FDATA.gov_NGAP.x
Read r called:	ows 18-23 and columns 7-15 into R and assign the result to a variable
dat	
What i	s the value of:
sum(dat\$Zip*dat\$Ext,na.rm=T)
•	al data source: http://catalog.data.gov/dataset/natural-gas-acquisition-m (http://catalog.data.gov/dataset/natural-gas-acquisition-program))
	36534720
	0
	184585
	338924

4.

Read the XML data on Baltimore restaurants from here:

https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2Frestaurants.xml (https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2Frestaurants.xml)

How m	nany restaurants have zipcode 21231?
	130
	100
	28
	127
5.	
States	nerican Community Survey distributes downloadable data about United communities. Download the 2006 microdata survey about housing for ite of Idaho using download.file() from here:
•	/d396qusza40orc.cloudfront.net/getdata%2Fdata%2Fss06pid.csv //d396qusza40orc.cloudfront.net/getdata%2Fdata%2Fss06pid.csv)
using t	he fread() command load the data into an R object
DT	
The fo	llowing are ways to calculate the average value of the variable
pwgt	p15
	n down by sex. Using the data.table package, which will deliver the user time?
	DT[,mean(pwgtp15),by=SEX]
	mean(DT[DT\$SEX==1,]\$pwgtp15); mean(DT[DT\$SEX==2,]\$pwgtp15)
	mean(DT\$pwgtp15,by=DT\$SEX)
	tapply(DT\$pwgtp15,DT\$SEX,mean)
	sapply(split(DT\$pwgtp15,DT\$SEX),mean)
	rowMeans(DT)[DT\$SEX==1]; rowMeans(DT)[DT\$SEX==2]

5 questions unanswered

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