Reading Files

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Getting and Cleaning Data - Week 1 Quiz- Solutions

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

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

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

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

Solution: 53

```
fileURL <- "https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2Fss06hid.csv"
download.file(fileURL, destfile = "community-survery.csv")
dateDownloaded <- date()
dateDownloaded</pre>
```

```
## [1] "Sat Jun 27 10:01:23 2020"
```

```
data <- read.csv("community-survery.csv")
sum(data$VAL == 24, na.rm = TRUE)</pre>
```

```
## [1] 53
```

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?

Solution: Tidy data has one variable per column

3.Download the Excel spreadsheet on Natural Gas Aquisition Program here:

 $https://d396 qusza 40 orc.cloud front.net/get data \% 2 Fdata \% 2 FDATA.gov_NGAP.xlsx$

Read rows 18-23 and columns 7-15 into R and assign the result to a variable called:

dat

What is the value of:

```
sum(datZip * dat$Ext,na.rm=T)
```

Solution: I tried working on the solution but every time I ran library(xlsx) function I got the following error message. Please suggest a way around this error or a resolution, will be grateful of you!!

library(xlsx) Error: package or namespace load failed for 'xlsx': .onLoad failed in loadNamespace() for 'rJava', details: call: fun(libname, pkgname) error: JAVA_HOME cannot be determined from the Registry In addition: Warning message: package 'xlsx' was built under R version 4.0.2

4.Read the XML data on Baltimore restaurants from here:

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

How many restaurants have zipcode 21231?

```
library(XML)
fileURLBalti <- "https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2Frestaurants.xml"
fileURLBalti</pre>
```

[1] "https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2Frestaurants.xml"

```
BaltiResto <- xmlTreeParse(sub("s", "", fileURLBalti), useInternal=TRUE)
rootNode <- xmlRoot(BaltiResto)
zip <- xpathSApply(rootNode, "//zipcode", xmlValue)
sum(zip == 21231)</pre>
```

```
## [1] 127
```

5. 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%2Fss06pid.csv

using the fread() command load the data into an R object

DT

The following are ways to calculate the average value of the variable

pwgtp15dat <- openxlsx::read.xlsx(file = fileNGAP)

```
DT <- data.table::fread("https://d396qusza40orc.cloudfront.net/getdata%2Fdata%2Fss06pid.csv")
DT
```

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##	4:	C	0	0	0	0	0		0	0	0		0	0	
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## 1: 26 26 95 93 93 92 87 163 91 ## 2: 27 25 95 100 99 90 91 164 92 ## 3: 33 29 119 112 109 110 101 184 103 ## 4: 28 26 98 106 106 98 88 162 90 ## 5: 573 293 86 245 450 456 334 352 417 ## 14927: 31 8 28 28 5 25 40 50 39 ## 14928: 125 33 227 139 120 125 183 121 36 ## 14929: 134 34 170 124 117 104 168 143 34 ## 14930: 588 107 333 384 399 108 328 550 341 ## 14931: 643 108 314 424 426 124 374 666 385 ## 14931: 043 108 314 424 426 124 374 666 385 ## 125 153 89 149 83 25 180 89 23 ## 2: 26 155 95 154 86 24 190 89 25 ## 3: 32 190 116 178 95 29 219 104 29 ## 4: 26 164 103 149 90 24 190 93 25 ## 5: 103 283 100 108 282 129 408 442 261 ## 1 ## 14927: 28 28 28 22 24 30 10 5 5 51 47													
## 2: 27 25 95 100 99 90 91 164 92 ## 3: 33 29 119 112 109 110 101 184 103 ## 4: 28 26 98 106 106 98 88 162 90 ## 5: 573 293 86 245 450 456 334 352 417 ## ## 14927: 31 8 28 28 5 25 40 50 39 ## 14928: 125 33 227 139 120 125 183 121 36 ## 14929: 134 34 170 124 117 104 168 143 34 ## 14930: 588 107 333 384 399 108 328 550 341 ## 14931: 643 108 314 424 426 124 374 666 385 ## 14931: 25 153 89 149 83 25 180 89 23 ## 2: 26 155 95 154 86 24 190 89 25 ## 3: 32 190 116 178 95 29 219 104 29 ## 4: 26 164 103 149 90 24 190 93 25 ## 5: 103 283 100 108 282 129 408 442 261 ## 14927: 28 28 28 22 24 30 10 50 5 51 47		1:											
## 3: 33 29 119 112 109 110 101 184 103 ## 4: 28 26 98 106 106 98 88 162 90 ## 5: 573 293 86 245 450 456 334 352 417 ## ## 14927: 31 8 28 28 5 25 40 50 39 ## 14928: 125 33 227 139 120 125 183 121 36 ## 14929: 134 34 170 124 117 104 168 143 34 ## 14930: 588 107 333 384 399 108 328 550 341 ## 14931: 643 108 314 424 426 124 374 666 385 ## 14931: 25 153 89 149 83 25 180 89 23 ## 2: 26 155 95 154 86 24 190 89 25 ## 3: 32 190 116 178 95 29 219 104 29 ## 4: 26 164 103 149 90 24 190 93 25 ## 5: 103 283 100 108 282 129 408 442 261 ## 5: 51 47													
## 4: 28 26 98 106 106 98 88 162 90 ## 5: 573 293 86 245 450 456 334 352 417 ## ## 14927: 31 8 28 28 28 5 25 40 50 39 ## 14928: 125 33 227 139 120 125 183 121 36 ## 14929: 134 34 170 124 117 104 168 143 34 ## 14930: 588 107 333 384 399 108 328 550 341 ## 14931: 643 108 314 424 426 124 374 666 385 ## 14931: 25 153 89 149 83 25 180 89 23 ## 2: 26 155 95 154 86 24 190 89 25 ## 3: 32 190 116 178 95 29 219 104 29 ## 4: 26 164 103 149 90 24 190 93 25 ## 5: 103 283 100 108 282 129 408 442 261 ## 5 ## 14927: 28 28 28 22 24 30 10 55 51 47	##									L01		103	
## 5: 573 293 86 245 450 456 334 352 417 ## ## 14927: 31 8 28 28 5 25 40 50 39 ## 14928: 125 33 227 139 120 125 183 121 36 ## 14929: 134 34 170 124 117 104 168 143 34 ## 14930: 588 107 333 384 399 108 328 550 341 ## 14931: 643 108 314 424 426 124 374 666 385 ## 1: 25 153 89 149 83 25 180 89 23 ## 2: 26 155 95 154 86 24 190 89 25 ## 3: 32 190 116 178 95 29 219 104 29 ## 4: 26 164 103 149 90 24 190 93 25 ## 5: 103 283 100 108 282 129 408 442 261 ## 14927: 28 28 28 22 24 30 10 5 5 51 47													
## 14927: 31 8 28 28 5 25 40 50 39 ## 14928: 125 33 227 139 120 125 183 121 36 ## 14929: 134 34 170 124 117 104 168 143 34 ## 14930: 588 107 333 384 399 108 328 550 341 ## 14931: 643 108 314 424 426 124 374 666 385 ## 1: pwgtp14 pwgtp15 pwgtp16 pwgtp17 pwgtp18 pwgtp19 pwgtp20 pwgtp21 pwgtp22 ## 1: 25 153 89 149 83 25 180 89 23 ## 2: 26 155 95 154 86 24 190 89 25 ## 3: 32 190 116 178 95 29 219 104 29 ## 4: 26 164 103 149 90 24 190 93 25 ## 5: 103 283 100 108 282 129 408 442 261 ## 5: 47 4927: 28 28 28 22 24 30 10 5 51 47	##	5:	573	293	86	245	450	4!	56 3	334	352	417	
## 14928: 125 33 227 139 120 125 183 121 36 ## 14929: 134 34 170 124 117 104 168 143 34 ## 14930: 588 107 333 384 399 108 328 550 341 ## 14931: 643 108 314 424 426 124 374 666 385 ## 1: pwgtp14 pwgtp15 pwgtp16 pwgtp17 pwgtp18 pwgtp19 pwgtp20 pwgtp21 pwgtp22 ## 1: 25 153 89 149 83 25 180 89 23 ## 2: 26 155 95 154 86 24 190 89 25 ## 3: 32 190 116 178 95 29 219 104 29 ## 4: 26 164 103 149 90 24 190 93 25 ## 5: 103 283 100 108 282 129 408 442 261 ## ## 14927: 28 28 28 22 24 30 10 5 51 47	##												
## 14929: 134 34 170 124 117 104 168 143 34	##	14927:	31	8	28	28	5	2	25	40	50	39	
## 14930: 588 107 333 384 399 108 328 550 341 ## 14931: 643 108 314 424 426 124 374 666 385 ## 1: pwgtp14 pwgtp15 pwgtp16 pwgtp17 pwgtp18 pwgtp19 pwgtp20 pwgtp21 pwgtp22 ## 1: 25 153 89 149 83 25 180 89 23 ## 2: 26 155 95 154 86 24 190 89 25 ## 3: 32 190 116 178 95 29 219 104 29 ## 4: 26 164 103 149 90 24 190 93 25 ## 5: 103 283 100 108 282 129 408 442 261 ## ## 14927: 28 28 28 22 24 30 10 5 51 47	##	14928:	125	33	227	139	120	12	25 :	L83	121	36	
## 14931: 643 108 314 424 426 124 374 666 385 ## 14931: pwgtp14 pwgtp15 pwgtp16 pwgtp17 pwgtp18 pwgtp19 pwgtp20 pwgtp21 pwgtp22 ## 1: 25 153 89 149 83 25 180 89 23 ## 2: 26 155 95 154 86 24 190 89 25 ## 3: 32 190 116 178 95 29 219 104 29 ## 4: 26 164 103 149 90 24 190 93 25 ## 5: 103 283 100 108 282 129 408 442 261 ## ## 14927: 28 28 28 22 24 30 10 5 51 47	##	14929:	134	34	170	124	117	10	04 1	168	143	34	
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## 1: 25 153 89 149 83 25 180 89 23 ## 2: 26 155 95 154 86 24 190 89 25 ## 3: 32 190 116 178 95 29 219 104 29 ## 4: 26 164 103 149 90 24 190 93 25 ## 5: 103 283 100 108 282 129 408 442 261 ## ## 14927: 28 28 22 24 30 10 5 51 47	##	14931:	643	108	314	424	426	13	24 3	374	666	385	
## 1: 25 153 89 149 83 25 180 89 23 ## 2: 26 155 95 154 86 24 190 89 25 ## 3: 32 190 116 178 95 29 219 104 29 ## 4: 26 164 103 149 90 24 190 93 25 ## 5: 103 283 100 108 282 129 408 442 261 ## ## 14927: 28 28 22 24 30 10 5 51 47	##		pwgtp14	pwgtp15	pwgtp1	6 pwgt	p17 pw	gtp18 j	pwgtp19	pwgtp20) pwgtp2	21 pwgt	p22
## 3: 32 190 116 178 95 29 219 104 29 ## 4: 26 164 103 149 90 24 190 93 25 ## 5: 103 283 100 108 282 129 408 442 261 ## ## 14927: 28 28 22 24 30 10 5 51 47	##	1:											
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## 5: 103 283 100 108 282 129 408 442 261 ## ## 14927: 28 28 22 24 30 10 5 51 47	##	3:	32	190) 11	6	178	95	29	219	9 10)4	29
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	14930:	118	330	581	676	353	318	514	115	345
	14931:	120	405	652	672	363	347	639	131	386
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##		nrra+n/11	ntratn/12	n110+n/13	ntratn//	nractn/5	nurth16	nurtn/7	ntratn/18	ntratn/10
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## ## ## ##	2: 3: 4:	89 93 100 92	173 163 184 160	27 29 38 28	84 83 109 85	153 156 192 156	149 153 174 148	93 96 125 96	89 90 113 99	91 91 95 90
## ## ## ##	2: 3: 4: 5:	89 93 100	173 163 184	27 29 38	84 83 109	153 156 192	149 153 174	93 96 125	89 90 113	91 91 95
## ## ## ## ##	2: 3: 4: 5:	89 93 100 92 106	173 163 184 160 256	27 29 38 28 326	84 83 109 85 290	153 156 192 156 96	149 153 174 148 346	93 96 125 96 571	89 90 113 99 268	91 91 95 90 117
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##	14930:	341	355	109	315	559	368	101	106	378
##	14931:	360	377	111	387	610	402	112	109	404
##		pwgtp77	pwgtp78	pwgtp79	pwgtp80					
##	1:	25	99	159	129					
##	2:	27	98	167	131					
##	3:	30	104	206	156					
##	4:	27	104	156	138					
##	5:	612	282	462	259					
##										
##	14927:	22	29	39	45					
##	14928:	132	114	199	122					
##	14929:	121	104	186	117					
##	14930:	339	111	572	359					
##	14931:	364	109	600	372					

system.time(DT[,mean(pwgtp15),by=SEX])

```
## user system elapsed ## 0 0 0
```