$RWorksheet_Leysa\#4c$

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1.

a. Show your solution on how to import a csv file on your environment.

```
library(ggplot2)
mpg_data <- read.csv("mpg.csv")
mpg_data</pre>
```

##		X ma	anufacturer	model	displ	year	cyl	trans	drv	cty
##	1	1	audi	a4	_	1999	4	auto(15)	f	18
##	2	2	audi	a4	1.8	1999	4	manual(m5)	f	21
##	3	3	audi	a4	2.0	2008	4	manual(m6)	f	20
##	4	4	audi	a4	2.0	2008	4	auto(av)	f	21
##	5	5	audi	a4	2.8	1999	6	auto(15)	f	16
##	6	6	audi	a4	2.8	1999	6	manual(m5)	f	18
##	7	7	audi	a4	3.1	2008	6	auto(av)	f	18
##	8	8	audi	a4 quattro	1.8	1999	4	manual(m5)	4	18
##	9	9	audi	a4 quattro	1.8	1999	4	auto(15)	4	16
##	10	10	audi	a4 quattro	2.0	2008	4	manual(m6)	4	20
##	11	11	audi	a4 quattro	2.0	2008	4	auto(s6)	4	19
##	12	12	audi	a4 quattro	2.8	1999	6	auto(15)	4	15
##	13	13	audi	a4 quattro	2.8	1999	6	manual(m5)	4	17
##	14	14	audi	a4 quattro	3.1	2008	6	auto(s6)	4	17
##	15	15	audi	a4 quattro	3.1	2008	6	manual(m6)	4	15
##	16	16	audi	a6 quattro	2.8	1999	6	auto(15)	4	15
##	17	17	audi	a6 quattro	3.1	2008	6	auto(s6)	4	17
##	18	18	audi	a6 quattro	4.2	2008	8	auto(s6)	4	16
##	19	19	chevrolet	c1500 suburban 2wd	5.3	2008	8	auto(14)	r	14
##	20	20	chevrolet	c1500 suburban 2wd	5.3	2008	8	auto(14)	r	11
##	21	21	chevrolet	c1500 suburban 2wd	5.3	2008	8	auto(14)	r	14
##	22	22	chevrolet	c1500 suburban 2wd	5.7	1999	8	auto(14)	r	13
	23	23	chevrolet	c1500 suburban 2wd		2008	8	auto(14)	r	12
	24	24	chevrolet	corvette	5.7	1999	8	manual(m6)	r	16
##	25	25	chevrolet	corvette	5.7	1999	8	auto(14)	r	15
##	26	26	chevrolet	corvette		2008		manual(m6)	r	16
	27	27	chevrolet	corvette		2008	8	auto(s6)	r	15
##	28	28	chevrolet	corvette		2008		manual(m6)	r	15
##	29	29	chevrolet	k1500 tahoe 4wd		2008	8	auto(14)	4	14
##	30	30	chevrolet	k1500 tahoe 4wd		2008	8	auto(14)	4	11
##	31	31	chevrolet	k1500 tahoe 4wd		1999	8	auto(14)	4	11
##	32	32	chevrolet	k1500 tahoe 4wd	6.5	1999	8	auto(14)	4	14

##	33	33	chevrolet	malibu	2.4	1999	4	auto(14)	f	19
	34	34	chevrolet	malibu		2008	4	auto(14)	f	22
##	35	35	chevrolet	malibu		1999	6	auto(14)	f	18
##	36	36	chevrolet	malibu		2008	6	auto(14)	f	18
##	37	37	chevrolet	malibu		2008	6	auto(s6)	f	17
##	38	38	dodge	caravan 2wd		1999	4	auto(13)	f	18
##	39	39	dodge	caravan 2wd		1999	6	auto(14)	f	17
	40	40	dodge	caravan 2wd		1999	6	auto(14)	f	16
	41	41	dodge	caravan 2wd		1999	6	auto(14)	f	16
##	42	42	dodge	caravan 2wd		2008	6	auto(14)	f	17
	43	43	dodge	caravan 2wd		2008	6	auto(14)	f	17
##	44	44	dodge	caravan 2wd		2008	6	auto(14)	f	11
	45	45	dodge	caravan 2wd		1999	6	auto(14)	f	15
##	46	46	dodge	caravan 2wd		1999	6	auto(14)	f	15
	47	47	dodge	caravan 2wd		2008	6	auto(14)	f	16
##	48	48	dodge	caravan 2wd		2008	6	auto(16)	f	16
##	49	49	dodge	dakota pickup 4wd		2008	6	manual(m6)	4	15
##	50	50	dodge	dakota pickup 4wd		2008	6	auto(14)	4	14
	51	51	dodge	dakota pickup 4wd		1999	6	auto(14)	4	13
	52	52	dodge	dakota pickup 4wd		1999	6	manual(m5)	4	14
	53	53	dodge	dakota pickup 4wd		2008	8	auto(15)	4	14
	54	54	dodge	dakota pickup 4wd		2008	8	auto(15)	4	14
	55	55	dodge	dakota pickup 4wd		2008	8	auto(15)	4	9
	56	56	dodge	dakota pickup 4wd		1999	8	manual(m5)	4	11
	57	57	dodge	dakota pickup 4wd		1999	8	auto(14)	4	11
##	58	58	dodge	durango 4wd		1999	6	auto(14)	4	13
##	59	59	dodge	durango 4wd		2008	8	auto(14)	4	13
	60	60	dodge	durango 4wd		2008	8	auto(15)	4	9
	61	61	dodge	durango 4wd		2008	8	auto(15)	4	13
	62	62	dodge	durango 4wd		1999	8	auto(14)	4	11
	63	63	dodge	durango 4wd		2008	8	auto(15)	4	13
	64	64	dodge	durango 4wd		1999	8	auto(14)	4	11
	65	65	dodge	ram 1500 pickup 4wd		2008	8	manual(m6)	4	12
	66	66	dodge	ram 1500 pickup 4wd		2008	8	auto(15)	4	9
	67	67	dodge	ram 1500 pickup 4wd		2008	8	auto(15)	4	13
	68	68	dodge	ram 1500 pickup 4wd		2008	8	auto(15)	4	13
##		69	dodge	ram 1500 pickup 4wd		2008		manual(m6)	4	12
##		70	dodge	ram 1500 pickup 4wd		2008		manual(m6)	4	9
##		71	dodge	ram 1500 pickup 4wd		1999	8	auto(14)	4	11
	72	72	dodge	ram 1500 pickup 4wd		1999		manual(m5)	4	11
	73	73	dodge	ram 1500 pickup 4wd		2008	8	auto(15)	4	13
	74	74	dodge	ram 1500 pickup 4wd		1999	8	auto(14)	4	11
	75	75	ford	expedition 2wd		1999	8	auto(14)	r	11
	76	76	ford	expedition 2wd		1999	8	auto(14)	r	11
##	77	77	ford	expedition 2wd		2008	8	auto(16)	r	12
	78	78	ford	explorer 4wd		1999	6	auto(15)	4	14
	79	79	ford	explorer 4wd		1999		manual(m5)	4	15
##		80	ford	explorer 4wd		1999	6	auto(15)	4	14
##		81	ford	explorer 4wd		2008	6	auto(15)	4	13
	82	82	ford	explorer 4wd		2008	8	auto(16)	4	13
	83	83	ford	explorer 4wd		1999	8	auto(14)	4	13
	84	84	ford	f150 pickup 4wd		1999	6	auto(14)	4	14
##		85	ford	f150 pickup 4wd		1999		manual(m5)	4	14
##		86	ford	f150 pickup 4wd		1999		manual(m5)	4	13
	-			. IF 2			-	\/	_	-

##			f150 pickup 4wd	1999	8	auto(14)	4	13
##	88 88		f150 pickup 4wd	2008	8	auto(14)	4	13
##	89 89		f150 pickup 4wd	1999	8	auto(14)	4	11
##	90 90		f150 pickup 4wd	2008	8	auto(14)	4	13
##	91 91	ford	mustang	1999	6	manual(m5)	r	18
##	92 92		mustang	1999	6	auto(14)	r	18
##	93 93		mustang	2008	6	manual(m5)	r	17
##	94 94		mustang	2008	6	auto(15)	r	16
##	95 95		mustang	1999	8	auto(14)	r	15
##	96 96		mustang	1999	8	manual(m5)	r	15
##	97 97	ford	mustang	2008	8	manual(m5)	r	15
##	98 98		mustang	2008	8	auto(15)	r	15
##	99 99	ford	mustang	2008	8	manual(m6)	r	14
##	100 100	honda	civic	1999	4	manual(m5)	f	28
##	101 101	honda	civic	1999	4	auto(14)	f	24
##	102 102		civic	1999	4	manual(m5)	f	25
##	103 103		civic	1999	4	manual(m5)	f	23
##	104 104		civic	1999	4	auto(14)	f	24
##	105 105		civic	2008	4		f	26
##	106 106		civic	2008	4	auto(15)	f	25
##	107 107		civic	 2008	4	auto(15)	f	24
##	108 108		civic	2008	4	manual(m6)	f	21
##	109 109	hyundai	sonata	1999	4	auto(14)	f	18
##	110 110	hyundai	sonata	1999	4		f	18
##	111 111	hyundai	sonata	2008	4	auto(14)	f	21
##	112 112	J	sonata	2008	4		f	21
##	113 113	J	sonata	1999	6	auto(14)	f	18
##	114 114	J	sonata .	1999	6	manual(m5)	f	18
##	115 115	J	sonata	2008	6	auto(15)	f	19
##	116 116	hyundai	tiburon	1999	4	auto(14)	f	19
##	117 117	hyundai	tiburon	1999	4		f	19
##	118 118	J	tiburon	2008	4		f	20
##	119 119 120 120	hyundai	tiburon	2008 2008	4 6	auto(14) auto(14)	f f	20 17
##	120 120	hyundai	tiburon	2008	6	manual(m6)	f	16
##	121 121	hyundai	tiburon tiburon	2008	6	manual (m5)	f	17
	123 123	3	grand cherokee 4wd	2008	6	auto(15)	4	17
	123 123	jeep	•	2008	6	auto(15)	4	15
	124 124	0 1	grand cherokee 4wd grand cherokee 4wd	1999	6	auto(13)	4	15
	126 126	0 1	grand cherokee 4wd	1999	8	auto(14)	4	14
	127 127		grand cherokee 4wd	2008	8	auto(14)	4	9
	128 128	<i>J</i> 1	grand cherokee 4wd	2008	8	auto(15)	4	14
	129 129	0 1	grand cherokee 4wd	2008	8	auto(15)	4	13
	130 130	<i>J</i> 1	grand cherokee 4wd	2008	8	auto(15)	4	11
	131 131	0 1	range rover	1999	8	auto(14)	4	11
	132 132		range rover	2008	8	auto(s6)	4	12
	133 133		range rover	2008	8	auto(s6)	4	12
	134 134		range rover	1999	8	auto(14)	4	11
	135 135		navigator 2wd	1999	8	auto(14)	r	11
	136 136		navigator 2wd	1999	8	auto(14)	r	11
	137 137		navigator 2wd	2008	8	auto(16)	r	12
	138 138		mountaineer 4wd	1999	6	auto(15)	4	14
	139 139	·	mountaineer 4wd	2008	6	auto(15)	4	13
	140 140	·	mountaineer 4wd	2008	8	auto(16)	4	13
	0	J		 •	•		-	

##	141	1/1	morcury	mountaineer 4wd	5.0	1999	8	auto(14)	4	13
##	142		mercury nissan	altima		1999		manual(m5)	f	21
##	143		nissan	altima		1999	4	auto(14)	f	19
##	144		nissan	altima		2008	4	auto(14)	f	23
##	145		nissan	altima		2008	_	manual(m6)	f	23
##	146			altima		2008	6	manual (m6)	f	23 19
##	147		nissan	altima		2008	6	auto(av)	f	19
##	148		nissan	maxima		1999	6		f	18
	149		nissan		3.0	1999		auto(14) manual(m5)	f	19
##	150		nissan	maxima maxima		2008	6	auto(av)	f	19
	151		nissan			1999	6		4	19
##	151		nissan	pathfinder 4wd		1999		auto(14) manual(m5)	4	15
##			nissan	pathfinder 4wd					_	
##	153		nissan	pathfinder 4wd		2008	6	auto(15)	4	14 12
##	154		nissan	pathfinder 4wd		2008	8	auto(s5)	4	
##	155		pontiac	grand prix		1999	6	auto(14)	f	18
##	156		pontiac	grand prix		1999	6	auto(14)	f	16
##	157		pontiac	grand prix		1999	6	auto(14)	f	17
##	158		pontiac	grand prix		2008	6	auto(14)	f	18
##	159		pontiac	grand prix		2008	8	auto(s4)	f	16
##	160		subaru	forester awd		1999		manual(m5)	4	18
##	161		subaru	forester awd		1999	4	auto(14)	4	18
##	162		subaru	forester awd		2008		manual(m5)	4	20
##	163		subaru	forester awd		2008		manual(m5)	4	19
##	164		subaru	forester awd		2008	4	auto(14)	4	20
##	165		subaru	forester awd		2008	4	auto(14)	4	18
##	166		subaru	impreza awd		1999	4	auto(14)	4	21
##	167		subaru	impreza awd		1999		manual(m5)	4	19
##	168		subaru	impreza awd		1999		manual(m5)	4	19
##	169		subaru	impreza awd		1999	4	auto(14)	4	19
##	170		subaru	impreza awd		2008	4	auto(s4)	4	20
##	171		subaru	impreza awd		2008	4	auto(s4)	4	20
##	172		subaru	impreza awd		2008		manual(m5)	4	19
##	173		subaru	impreza awd		2008		manual(m5)	4	20
##	174		toyota	4runner 4wd		1999		manual(m5)	4	15
##	175		toyota	4runner 4wd		1999	4	auto(14)	4	16
##	176		toyota	4runner 4wd		1999	6	auto(14)	4	15
	177		toyota	4runner 4wd		1999		manual(m5)	4	15
	178		toyota	4runner 4wd		2008	6	auto(15)	4	16
	179		toyota	4runner 4wd		2008	8	auto(15)	4	14
	180		toyota	camry		1999		manual(m5)	f	21
	181		toyota	camry		1999	4	auto(14)	f	21
	182		toyota	camry		2008		manual(m5)	f	21
	183		toyota	camry		2008	4	auto(15)	f	21
	184		toyota	camry		1999	6	auto(14)	f	18
	185		toyota	camry		1999		manual(m5)	f	18
##	186		toyota	camry		2008	6	auto(s6)	f	19
##	187		toyota	camry solara		1999	4	auto(14)	f	21
##	188		toyota	camry solara		1999		manual(m5)	f	21
	189		toyota	camry solara		2008		manual(m5)	f	21
##	190		toyota	camry solara		2008	4	auto(s5)	f	22
	191		toyota	camry solara		1999	6	auto(14)	f	18
	192		toyota	camry solara		1999		manual(m5)	f	18
	193		toyota	camry solara		2008	6	auto(s5)	f	18
##	194	194	toyota	corolla	1.8	1999	4	auto(13)	f	24

```
## 195 195
                   toyota
                                           corolla
                                                      1.8 1999
                                                                       auto(14)
                                                                                   f
                                                                                       24
## 196 196
                                                      1.8 1999
                                                                   4 manual(m5)
                                                                                   f
                                                                                       26
                   toyota
                                           corolla
## 197 197
                                                                                       28
                   toyota
                                           corolla
                                                      1.8 2008
                                                                   4 manual(m5)
                                                                                   f
                                                                                       26
## 198 198
                                                      1.8 2008
                                                                       auto(14)
                                                                                   f
                   toyota
                                           corolla
## 199 199
                   toyota land cruiser wagon 4wd
                                                      4.7 1999
                                                                  8
                                                                       auto(14)
                                                                                       11
## 200 200
                   toyota land cruiser wagon 4wd
                                                                   8
                                                                                   4
                                                                                       13
                                                      5.7 2008
                                                                       auto(s6)
## 201 201
                                                                                       15
                   toyota
                                toyota tacoma 4wd
                                                      2.7 1999
                                                                    manual(m5)
## 202 202
                   toyota
                                toyota tacoma 4wd
                                                      2.7 1999
                                                                   4
                                                                       auto(14)
                                                                                   4
                                                                                       16
## 203 203
                   toyota
                                toyota tacoma 4wd
                                                      2.7 2008
                                                                    manual(m5)
                                                                                       17
## 204 204
                                                                                       15
                   toyota
                                toyota tacoma 4wd
                                                      3.4 1999
                                                                    manual(m5)
## 205 205
                   toyota
                                toyota tacoma 4wd
                                                      3.4 1999
                                                                       auto(14)
                                                                                       15
## 206 206
                                                                                       15
                                                          2008
                                                                                   4
                   toyota
                                toyota tacoma
                                               4wd
                                                      4.0
                                                                   6
                                                                     manual(m6)
## 207 207
                                toyota tacoma 4wd
                                                      4.0 2008
                                                                       auto(15)
                                                                                       16
                   toyota
                                                                   6
## 208 208
                                                gti
                                                                     manual(m5)
                                                                                   f
                                                                                       21
              volkswagen
                                                      2.0 1999
## 209 209
                                                      2.0 1999
                                                                       auto(14)
                                                                                   f
                                                                                       19
              volkswagen
                                                gti
                                                                   4
## 210 210
              volkswagen
                                                      2.0 2008
                                                                    manual(m6)
                                                                                   f
                                                                                       21
                                                gti
## 211 211
                                                      2.0 2008
                                                                                   f
                                                                                       22
              volkswagen
                                                                       auto(s6)
                                                gti
                                                                                       17
## 212 212
              volkswagen
                                                      2.8 1999
                                                                    manual(m5)
                                                gti
                                                      1.9 1999
## 213 213
                                                                                       33
              volkswagen
                                                                    manual(m5)
                                                                                   f
                                             jetta
## 214 214
              volkswagen
                                             jetta
                                                      2.0
                                                          1999
                                                                    manual(m5)
                                                                                   f
                                                                                       21
## 215 215
              volkswagen
                                             jetta
                                                      2.0 1999
                                                                       auto(14)
                                                                                   f
                                                                                       19
## 216 216
              volkswagen
                                                      2.0 2008
                                                                       auto(s6)
                                                                                       22
                                             jetta
                                                      2.0 2008
## 217 217
                                                                                   f
                                                                                       21
              volkswagen
                                                                   4 manual(m6)
                                             jetta
## 218 218
              volkswagen
                                                      2.5 2008
                                                                                   f
                                                                                       21
                                             jetta
                                                                   5
                                                                       auto(s6)
## 219 219
                                                                                       21
              volkswagen
                                             jetta
                                                      2.5 2008
                                                                   5 manual(m5)
                                                                                   f
## 220 220
              volkswagen
                                             jetta
                                                      2.8 1999
                                                                       auto(14)
                                                                                   f
                                                                                       16
## 221 221
              volkswagen
                                                      2.8 1999
                                                                                   f
                                                                                       17
                                             jetta
                                                                     manual(m5)
## 222 222
                                                                                   f
                                                                                       35
              volkswagen
                                        new beetle
                                                      1.9 1999
                                                                     manual(m5)
## 223 223
                                                                                       29
                                                      1.9 1999
                                                                                   f
              volkswagen
                                        new beetle
                                                                       auto(14)
## 224 224
                                        new beetle
              volkswagen
                                                      2.0 1999
                                                                    manual(m5)
                                                                                   f
                                                                                       21
## 225 225
              volkswagen
                                        new beetle
                                                      2.0
                                                          1999
                                                                   4
                                                                       auto(14)
                                                                                   f
                                                                                       19
## 226 226
              volkswagen
                                        new beetle
                                                      2.5 2008
                                                                   5
                                                                    manual(m5)
                                                                                   f
                                                                                       20
## 227 227
                                                                                       20
              volkswagen
                                        new beetle
                                                      2.5 2008
                                                                       auto(s6)
## 228 228
                                                      1.8 1999
                                                                                       21
              volkswagen
                                                                    manual(m5)
                                                                                   f
                                            passat
## 229 229
              volkswagen
                                                      1.8
                                                          1999
                                                                       auto(15)
                                                                                   f
                                                                                       18
                                            passat
## 230 230
                                                      2.0 2008
                                                                   4
                                                                                   f
                                                                                       19
              volkswagen
                                            passat
                                                                       auto(s6)
## 231 231
              volkswagen
                                            passat
                                                      2.0 2008
                                                                    manual(m6)
                                                                                   f
                                                                                       21
## 232 232
              volkswagen
                                                      2.8 1999
                                                                   6
                                                                       auto(15)
                                                                                   f
                                                                                       16
                                            passat
## 233 233
              volkswagen
                                                      2.8 1999
                                                                   6 manual(m5)
                                                                                   f
                                                                                       18
                                            passat
##
   234 234
              volkswagen
                                                      3.6 2008
                                                                                   f
                                                                                       17
                                                                       auto(s6)
                                            passat
##
       hwy fl
                     class
## 1
        29
             р
                   compact
##
   2
        29
             р
                   compact
##
   3
        31
                   compact
## 4
        30
                   compact
             p
        26
## 5
             р
                   compact
##
   6
        26
                   compact
             p
## 7
        27
             p
                   compact
## 8
        26
                   compact
             р
## 9
        25
                   compact
             p
## 10
        28
                   compact
             p
## 11
        27
             р
                   compact
## 12
        25
                   compact
             p
## 13
        25
                   compact
             р
```

##	14	25	р	compact
##	15	25	p	compact
##	16	24	р	midsize
##	17	25	р	midsize
##	18	23	р	midsize
##	19	20	r	suv
##	20	15	е	suv
##	21	20	r	suv
##	22	17	r	suv
##	23	17	r	suv
##	24	26	р	2seater
##	25	23	p	2seater
##	26	26	p	2seater
##	27	25	p	2seater
##	28	24	p	2seater
##	29	19	r	suv
##	30	14	е	suv
##	31	15	r	suv
##	32	17	d	suv
##	33	27	r	midsize
##	34	30	r	midsize
##	35	26	r	midsize
##	36	29	r	midsize
##	37	26	r	midsize
##	38	24	r	minivan
##	39	24	r	minivan
##	40	22	r	minivan
##	41	22	r	minivan
##	42	24	r	minivan
##	43	24	r	minivan
##	44	17	e	minivan
##	45	22	r	minivan
##	46	21	r	minivan
##	47	23	r	minivan
##	48	23	r	minivan
##	49	19	r	pickup
##	50	18	r	pickup
##	51	17		
##	52	17	r	pickup
##	53	19	r	pickup
##	53 54	19	r	pickup
	54 55	19	r	pickup
##		12 17	е	pickup
## ##	56		r	pickup
	57	15	r	pickup
##	58	17	r	suv
##	59	17	r	suv
##	60	12	е	suv
##	61	17	r	suv
##	62	16	r	suv
##	63	18	r	suv
##	64	15	r	suv
##	65	16	r	pickup
##	66	12	е	pickup
##	67	17	r	pickup

```
## 68
        17
             r
                   pickup
##
  69
        16
             r
                   pickup
##
   70
        12
             е
                   pickup
##
  71
        15
                   pickup
             r
##
   72
        16
             r
                   pickup
##
   73
        17
                   pickup
             r
##
  74
        15
             r
                   pickup
## 75
        17
                       suv
##
   76
        17
             r
                       suv
##
  77
        18
                       suv
##
   78
        17
             r
                       suv
##
  79
        19
                       suv
##
   80
        17
             r
                       suv
## 81
        19
                       suv
## 82
        19
                       suv
             r
## 83
        17
                       suv
##
   84
        17
                   pickup
##
   85
                   pickup
##
  86
        16
                   pickup
             r
##
  87
                   pickup
        16
##
   88
        17
                   pickup
##
   89
        15
                   pickup
## 90
        17
                   pickup
             r
        26
##
  91
             r subcompact
## 92
             r subcompact
##
  93
             r subcompact
##
  94
        24
            r subcompact
##
   95
        21
             r subcompact
## 96
             r subcompact
## 97
        23
             r subcompact
## 98
        22
             r subcompact
## 99
        20
             p subcompact
## 100
        33
             r subcompact
        32
## 101
            r subcompact
## 102
        32
             r subcompact
        29
             p subcompact
## 103
## 104
        32
             r subcompact
## 105
        34
             r subcompact
        36
## 106
             r subcompact
## 107
        36
             c subcompact
## 108
        29
             p subcompact
## 109
        26
            r
                  midsize
## 110
        27
                  midsize
## 111
        30
                  midsize
## 112
        31
                  midsize
            r
## 113
        26
                  midsize
            r
## 114
        26
                  midsize
            r
## 115
        28
                  midsize
## 116
        26
            r subcompact
## 117
        29
             r subcompact
        28
## 118
             r subcompact
        27
## 119
             r subcompact
        24
## 120
            r subcompact
## 121
        24
            r subcompact
```

```
## 122
            r subcompact
        24
## 123
        22
             d
                       suv
## 124
        19
             r
                       suv
## 125
        20
             r
                       suv
## 126
        17
                       suv
## 127
        12
             е
                       suv
## 128
        19
             r
                       suv
## 129
        18
             r
                       suv
## 130
        14
             р
                       suv
## 131
        15
             p
                       suv
## 132
        18
            r
                       suv
## 133
        18
             r
                       suv
## 134
        15
             p
                       suv
## 135
        17
                       suv
## 136
        16
                       suv
             p
## 137
        18
             r
                       suv
## 138
        17
             r
                       suv
## 139
        19
                       suv
## 140
        19
                       suv
             r
## 141
        17
                       suv
## 142
        29
             r
                  compact
## 143
        27
             r
                  compact
## 144
        31
                  midsize
             r
## 145
        32
            r
                  midsize
## 146
        27
                  midsize
             р
## 147
        26
             р
                  midsize
## 148
        26
                  midsize
            r
## 149
        25
                  midsize
             r
## 150
        25
                  midsize
             p
## 151
        17
            r
                       suv
## 152
        17
                       suv
## 153
        20
             p
                       suv
## 154
        18
             p
                       suv
## 155
        26
                  midsize
            r
## 156
        26
             p
                  midsize
## 157
        27
                  midsize
             r
## 158
        28
                  midsize
## 159
        25
             р
                  midsize
## 160
        25
             r
                       suv
## 161
        24
             r
                       suv
## 162
        27
             r
                       suv
## 163
        25
             р
                       suv
## 164
        26
                       suv
             r
## 165
        23
                       suv
## 166
        26
             r subcompact
        26
## 167
             r subcompact
## 168
        26
             r subcompact
## 169
        26
             r subcompact
## 170
        25
             p
                  compact
## 171
        27
                  compact
## 172
        25
             р
                  compact
## 173
        27
                  compact
## 174
        20
            r
                       suv
## 175
        20
                       suv
```

```
## 176
        19
             r
                       suv
## 177
         17
             r
                       suv
## 178
         20
                       suv
## 179
         17
                       suv
             r
##
   180
         29
             r
                  midsize
## 181
        27
                  midsize
## 182
         31
                  midsize
             r
## 183
        31
                  midsize
             r
## 184
         26
             r
                  midsize
## 185
         26
                  midsize
             r
   186
         28
            r
                  midsize
## 187
         27
                   compact
##
   188
        29
             r
                   compact
## 189
         31
                   compact
        31
## 190
                   compact
             r
## 191
         26
             r
                   compact
## 192
        26
                   compact
             r
## 193
                   compact
## 194
        30
                   compact
            r
## 195
        33
                   compact
## 196
        35
             r
                   compact
## 197
         37
                   compact
## 198
        35
                   compact
             r
## 199
        15
                       suv
             r
## 200
         18
             r
                       suv
## 201
         20
             r
                   pickup
## 202
        20
                   pickup
##
   203
         22
             r
                   pickup
## 204
         17
                   pickup
## 205
        19
             r
                   pickup
## 206
         18
                   pickup
## 207
         20
             r
                   pickup
##
   208
         29
                   compact
## 209
        26
                   compact
             r
## 210
         29
                   compact
## 211
        29
                   compact
             р
## 212
        24
                   compact
## 213
        44
             d
                   compact
## 214
        29
             r
                   compact
## 215
        26
                   compact
             r
## 216
        29
                   compact
             р
## 217
        29
                   compact
## 218
        29
                   compact
             r
## 219
        29
                   compact
## 220
         23
                   compact
             r
## 221
         24
                   compact
             r
## 222
         44
             d subcompact
## 223
         41
             d subcompact
## 224
        29
             r subcompact
## 225
        26
             r subcompact
##
   226
        28
             r subcompact
## 227
        29
             r subcompact
## 228
        29
             р
                  midsize
## 229
        29
                  midsize
             р
```

```
## 230 28 p midsize
## 231 29 p midsize
## 232 26 p midsize
## 233 26 p midsize
## 234 26 p midsize
```

b. Which variables from the mpg dataset are categorical?

```
#The variables that are categorical in the mpg dataset are manufacturer, model, year, #cyl, trans, drv, fl and class.
```

c. Which variables from the mpg dataset are continuous?

```
#The variables that are continuous in the mpg dataset are displ, cty and hwy.
```

2. Manufacturer with the most models.

```
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
## filter, lag

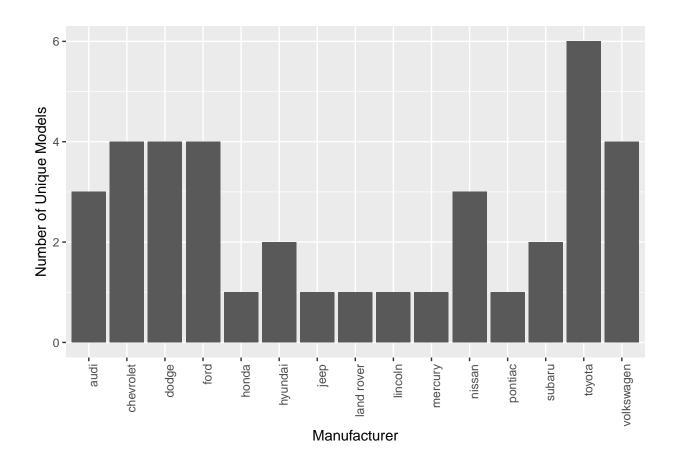
## The following objects are masked from 'package:base':
##
## intersect, setdiff, setequal, union

m_model <- mpg_data %>% group_by(manufacturer) %>% summarise(m_model = n_distinct(model))
m_model
```

```
## # A tibble: 15 x 2
     manufacturer m_model
##
      <chr>
                    <int>
## 1 audi
## 2 chevrolet
## 3 dodge
## 4 ford
## 5 honda
                        1
## 6 hyundai
## 7 jeep
                        1
## 8 land rover
## 9 lincoln
                        1
## 10 mercury
## 11 nissan
                        3
## 12 pontiac
## 13 subaru
## 14 toyota
## 15 volkswagen
```

2a. Group the manufacturers and find the unique models.

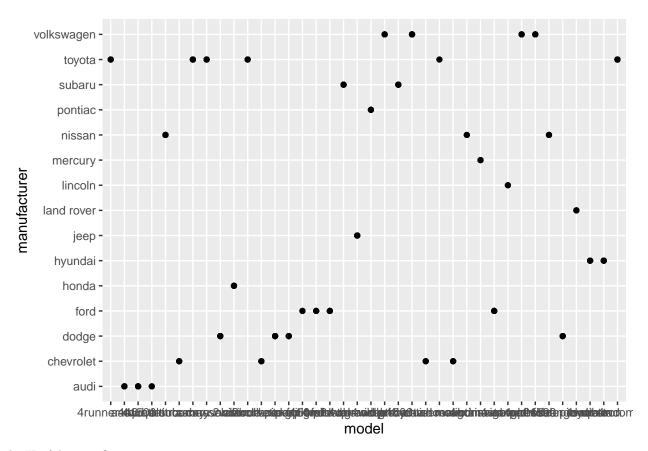
```
library(tidyr)
uniqueness <- mpg_data %>% group_by(manufacturer) %>% summarise(unique_models = list(unique(model))) %>
uniqueness
## # A tibble: 38 x 2
     manufacturer unique_models
##
                  <chr>
##
     <chr>
## 1 audi
                  a4
## 2 audi
                 a4 quattro
## 3 audi
                 a6 quattro
## 4 chevrolet c1500 suburban 2wd
## 5 chevrolet corvette
## 6 chevrolet k1500 tahoe 4wd
## 7 chevrolet malibu
## 8 dodge
                  caravan 2wd
## 9 dodge
                  dakota pickup 4wd
## 10 dodge
                  durango 4wd
## # i 28 more rows
2b. Graph the result using plot() and ggplot().
#plot
\#plot(m\_model\$manufacturer, m\_model\$m\_model, xlab = "Manufacturer", ylab = "Unique Models")
#ggplot2
ggplot(m_model, aes(x=manufacturer, y=m_model)) + geom_bar(stat = "identity") + theme(axis.text.x = elec
```



2. Relationship of the model and the manufacturer.

a.

ggplot(mpg, aes(model, manufacturer)) + geom_point()

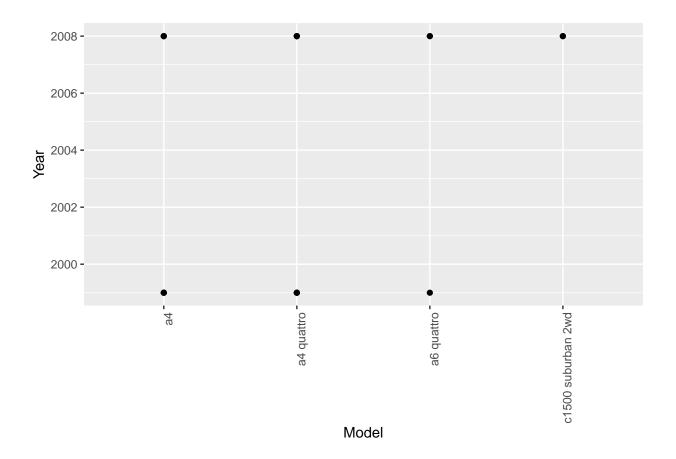


b. Useful or not?

```
# Although the code is better because it shows a plot, however, I cannot understand
# the relationship of the 2 data. So, in order for the data to be informative, I will
# filter the top models, use summarized data or choose other data that has a
# significant relationship with other data.
```

3. Plotting the model and the year using ggplot() using top 20 observations.

```
library(ggplot2)
top_20 <- mpg_data %>% slice_head(n=20)
ggplot(top_20, aes(x = model, y = year)) + geom_point() +theme(axis.text.x = element_text(angle = 90, h)
```



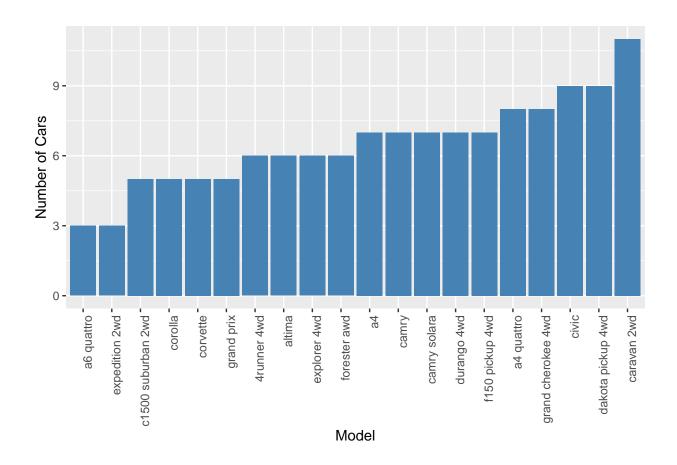
4. Using the %>% to group the model and the number of cars per model.

```
car_per_model <- mpg_data %>% group_by(model) %>% summarise(count = n())
car_per_model
```

```
## # A tibble: 38 x 2
      model
##
                          count
##
      <chr>
                          <int>
##
    1 4runner 4wd
                              6
                              7
##
    2 a4
   3 a4 quattro
                              8
   4 a6 quattro
                              3
##
                              6
##
    5 altima
##
    6 c1500 suburban 2wd
                              5
                              7
   7 camry
                              7
##
    8 camry solara
##
    9 caravan 2wd
                             11
## 10 civic
                              9
## # i 28 more rows
```

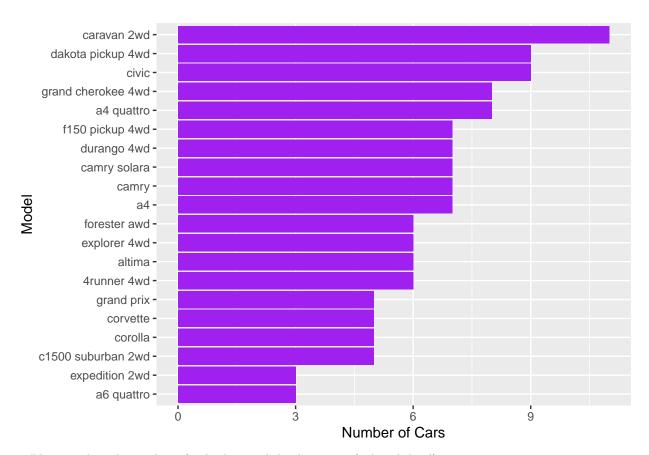
4a. Plotting using geom_bar with 20 observations

```
ggplot(car_per_model %>% slice_head(n = 20), aes(x = reorder(model, count), y = count)) + geom_bar(stat
```



b. Plot using coord_flip().

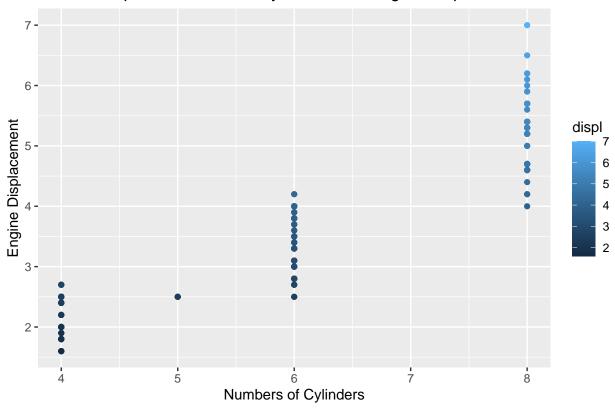
```
ggplot(car_per_model %>% slice_head(n = 20), aes(x = reorder(model, count), y = count)) + geom_bar(stat
```



5. Plotting the relationship of cylinders and displacement (cyl and displ)

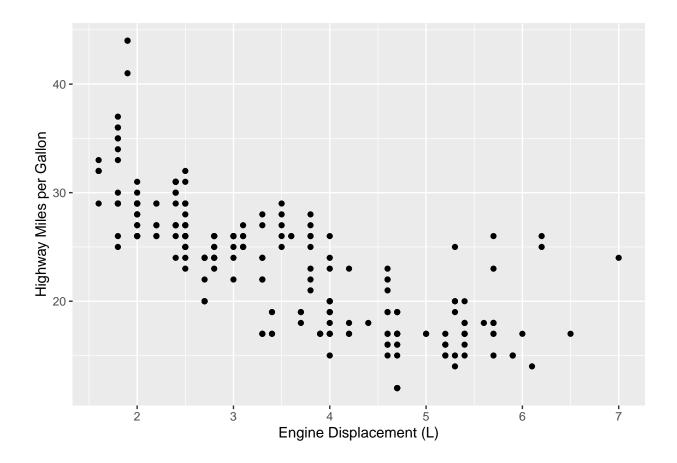
```
ggplot(mpg_data, aes(x = cyl, y = displ, color = displ)) + geom_point() + labs(title = "Relationship be")
```

Relationship between No. of Cylinders and Engine Displacement



6. Plotting the relationship between displ(engine displacement) and hwy (highway miles per gallon)

```
ggplot(mpg_data, aes(x = displ, y = hwy)) + geom_point() + labs(x = "Engine Displacement (L)", y = "High
```



6. Importing traffic.csv

```
traffic<- read.csv("traffic.csv")
traffic</pre>
```

```
##
                     DateTime Junction Vehicles
                                                           ID
         2015-11-01 00:00:00
                                              15 20151101001
## 1
                                      1
## 2
         2015-11-01 01:00:00
                                      1
                                              13 20151101011
         2015-11-01 02:00:00
                                     1
                                              10 20151101021
         2015-11-01 03:00:00
## 4
                                     1
                                               7 20151101031
## 5
         2015-11-01 04:00:00
                                     1
                                               9 20151101041
## 6
         2015-11-01 05:00:00
                                               6 20151101051
                                      1
## 7
         2015-11-01 06:00:00
                                     1
                                               9 20151101061
         2015-11-01 07:00:00
                                               8 20151101071
## 8
                                      1
## 9
         2015-11-01 08:00:00
                                     1
                                              11 20151101081
## 10
         2015-11-01 09:00:00
                                     1
                                              12 20151101091
         2015-11-01 10:00:00
                                              15 20151101101
## 11
                                     1
## 12
         2015-11-01 11:00:00
                                     1
                                              17 20151101111
## 13
         2015-11-01 12:00:00
                                     1
                                              16 20151101121
         2015-11-01 13:00:00
## 14
                                      1
                                              15 20151101131
## 15
         2015-11-01 14:00:00
                                      1
                                              16 20151101141
## 16
         2015-11-01 15:00:00
                                     1
                                              12 20151101151
## 17
         2015-11-01 16:00:00
                                      1
                                              12 20151101161
## 18
         2015-11-01 17:00:00
                                     1
                                              16 20151101171
## 19
         2015-11-01 18:00:00
                                     1
                                              17 20151101181
```

##	20	2015-11-01	19:00:00	1	20	20151101191
##	21	2015-11-01	20:00:00	1	17	20151101201
##	22	2015-11-01	21:00:00	1	19	20151101211
##	23	2015-11-01	22:00:00	1	20	20151101221
##	24	2015-11-01	23:00:00	1	15	20151101231
##	25	2015-11-02	00:00:00	1	14	20151102001
##	26	2015-11-02	01:00:00	1	12	20151102011
##	27	2015-11-02	02:00:00	1	14	20151102021
##	28	2015-11-02	03:00:00	1	12	20151102031
##	29	2015-11-02	04:00:00	1	12	20151102041
##	30	2015-11-02	05:00:00	1	11	20151102051
##	31	2015-11-02	06:00:00	1	13	20151102061
##	32	2015-11-02	07:00:00	1	14	20151102071
##	33	2015-11-02	08:00:00	1	12	20151102081
##	34	2015-11-02	09:00:00	1	22	20151102091
##	35	2015-11-02	10:00:00	1	32	20151102101
##	36	2015-11-02	11:00:00	1	31	20151102111
##	37	2015-11-02	12:00:00	1	35	20151102121
##	38		13:00:00	1	26	20151102131
##	39		14:00:00	1		20151102141
##	40		15:00:00	1	30	20151102151
##	41	2015-11-02	16:00:00	1	27	20151102161
##	42		17:00:00	1	27	20151102171
	43	2015-11-02	18:00:00	1	24	20151102171
	44		19:00:00	1	26	20151102101
	45	2015 11 02		1	29	20151102191
##	46	2015-11-02		1		20151102201
##	47	2015-11-02		1	30	20151102211
##	48	2015 11 02		1	27	20151102221
##	49	2015-11-02		1	21	20151102231
##	50	2015-11-03		1	18	20151103001
##	51	2015-11-03		1	19	
##	52	2015-11-03		1	13	20151103021
##	53	2015-11-03		1		20151103031 20151103041
					11	
##	54	2015-11-03		1	11	20151103051
##	55	2015-11-03		1		20151103061
##	56	2015-11-03		1		20151103071
	57	2015-11-03		1		20151103081
	58	2015-11-03		1		20151103091
	59	2015-11-03		1		20151103101
	60	2015-11-03		1		20151103111
	61	2015-11-03		1		20151103121
	62	2015-11-03		1		20151103131
	63	2015-11-03		1		20151103141
	64	2015-11-03		1		20151103151
	65	2015-11-03		1		20151103161
	66	2015-11-03		1		20151103171
	67	2015-11-03		1		20151103181
	68	2015-11-03		1		20151103191
	69	2015-11-03		1		20151103201
	70	2015-11-03		1		20151103211
	71	2015-11-03		1		20151103221
	72	2015-11-03		1		20151103231
##	73	2015-11-04	00:00:00	1	18	20151104001

```
## 74
         2015-11-04 01:00:00
                                               18 20151104011
## 75
         2015-11-04 02:00:00
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                                               13 20151104021
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  76
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                                               22 20151104091
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                                               31 20151104121
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                                               24 20151104131
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## 94
         2015-11-04 21:00:00
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                                               24 20151104211
## 95
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         2015-11-04 23:00:00
## 96
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                                               24 20151104231
## 97
         2015-11-05 00:00:00
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                                               19 20151105001
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         2015-11-05 01:00:00
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                                               20 20151105011
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                                               18 20151105021
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  101
         2015-11-05 04:00:00
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                                               13 20151105041
## 102
         2015-11-05 05:00:00
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                                               9 20151105051
## 103
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## 104
         2015-11-05 07:00:00
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                                               12 20151105071
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  105
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                                               15 20151105081
##
  106
         2015-11-05 09:00:00
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                                               16 20151105091
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                                               25 20151105121
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                                               24 20151105131
## 111
         2015-11-05 14:00:00
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                                               26 20151105141
                                               22 20151105151
## 112
         2015-11-05 15:00:00
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## 113
         2015-11-05 16:00:00
                                               20 20151105161
                                      1
## 114
         2015-11-05 17:00:00
                                      1
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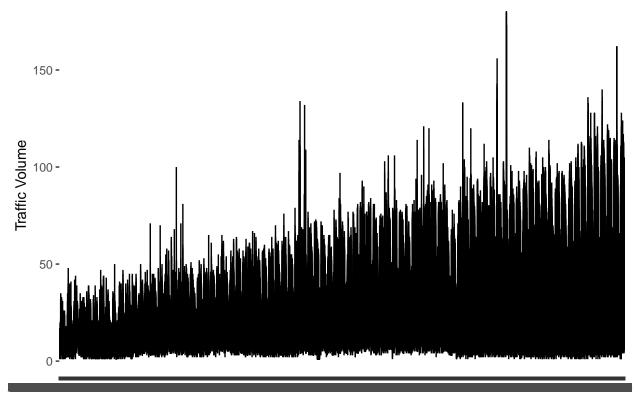
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                                             15 20170105122
## 24950 2017-01-05 13:00:00
                                     2
                                             18 20170105132
## 24951 2017-01-05 14:00:00
                                     2
                                             16 20170105142
## 24952 2017-01-05 15:00:00
                                     2
                                             18 20170105152
                                     2
## 24953 2017-01-05 16:00:00
                                             18 20170105162
## 24954 2017-01-05 17:00:00
                                     2
                                             16 20170105172
## 24955 2017-01-05 18:00:00
                                     2
                                             20 20170105182
                                     2
## 24956 2017-01-05 19:00:00
                                             18 20170105192
                                     2
## 24957 2017-01-05 20:00:00
                                             24 20170105202
                                     2
## 24958 2017-01-05 21:00:00
                                             21 20170105212
## 24959 2017-01-05 22:00:00
                                     2
                                             17 20170105222
                                     2
## 24960 2017-01-05 23:00:00
                                             18 20170105232
                                     2
## 24961 2017-01-06 00:00:00
                                             13 20170106002
## 24962 2017-01-06 01:00:00
                                     2
                                             17 20170106012
                                     2
## 24963 2017-01-06 02:00:00
                                             11 20170106022
## 24964 2017-01-06 03:00:00
                                     2
                                             10 20170106032
                                     2
## 24965 2017-01-06 04:00:00
                                             11 20170106042
## 24966 2017-01-06 05:00:00
                                     2
                                              8 20170106052
                                     2
## 24967 2017-01-06 06:00:00
                                              8 20170106062
```

```
## 24968 2017-01-06 07:00:00
                                             6 20170106072
## 24969 2017-01-06 08:00:00
                                    2
                                            12 20170106082
                                    2
## 24970 2017-01-06 09:00:00
                                            11 20170106092
## 24971 2017-01-06 10:00:00
                                    2
                                            10 20170106102
                                    2
## 24972 2017-01-06 11:00:00
                                            17 20170106112
## 24973 2017-01-06 12:00:00
                                    2
                                            17 20170106122
## 24974 2017-01-06 13:00:00
                                    2
                                           17 20170106132
## 24975 2017-01-06 14:00:00
                                    2
                                           19 20170106142
## 24976 2017-01-06 15:00:00
                                    2
                                            17 20170106152
                                    2
## 24977 2017-01-06 16:00:00
                                           18 20170106162
## 24978 2017-01-06 17:00:00
                                    2
                                           22 20170106172
## 24979 2017-01-06 18:00:00
                                    2
                                            20 20170106182
                                    2
## 24980 2017-01-06 19:00:00
                                            20 20170106192
                                    2
## 24981 2017-01-06 20:00:00
                                           19 20170106202
## 24982 2017-01-06 21:00:00
                                    2
                                           18 20170106212
                                    2
## 24983 2017-01-06 22:00:00
                                            19 20170106222
## 24984 2017-01-06 23:00:00
                                    2
                                            21 20170106232
                                    2
## 24985 2017-01-07 00:00:00
                                           14 20170107002
## 24986 2017-01-07 01:00:00
                                    2
                                           14 20170107012
                                    2
## 24987 2017-01-07 02:00:00
                                            14 20170107022
## 24988 2017-01-07 03:00:00
                                    2
                                           10 20170107032
## 24989 2017-01-07 04:00:00
                                    2
                                             9 20170107042
## 24990 2017-01-07 05:00:00
                                    2
                                             8 20170107052
## 24991 2017-01-07 06:00:00
                                    2
                                             8 20170107062
## 24992 2017-01-07 07:00:00
                                    2
                                             8 20170107072
## 24993 2017-01-07 08:00:00
                                    2
                                           10 20170107082
## 24994 2017-01-07 09:00:00
                                    2
                                             7 20170107092
## 24995 2017-01-07 10:00:00
                                    2
                                           11 20170107102
                                    2
## 24996 2017-01-07 11:00:00
                                             9 20170107112
                                    2
## 24997 2017-01-07 12:00:00
                                             9 20170107122
                                    2
## 24998 2017-01-07 13:00:00
                                            11 20170107132
## 24999 2017-01-07 14:00:00
                                    2
                                            13 20170107142
## [ reached 'max' / getOption("max.print") -- omitted 23121 rows ]
6a. Numbers of observation
print(dim(traffic))
## [1] 48120
print(names(traffic))
## [1] "DateTime" "Junction" "Vehicles" "ID"
6b. Subset the traffic dataset into junctions.
junction_traffic <- subset(traffic, Junction == "your_junction_condition")
junction_traffic
## [1] DateTime Junction Vehicles ID
## <0 rows> (or 0-length row.names)
```

6c. Plot with geom line()

```
ggplot(traffic, aes(x = DateTime, y = Vehicles)) + geom_line() + labs(x = "Time", y = "Traffic Volume")
```



Time

 $7.import alexa_file.xlsx$

```
library(readxl)
alexa <- read_excel("alexa_file.xlsx")
alexa</pre>
```

```
## # A tibble: 3,150 x 5
##
      rating date
                                  variation
                                                       verified_reviews
                                                                              feedback
##
       <dbl> <dttm>
                                  <chr>
                                                                                 <dbl>
                                                       <chr>
##
    1
           5 2018-07-31 00:00:00 Charcoal Fabric
                                                       Love my Echo!
                                                                                     1
    2
           5 2018-07-31 00:00:00 Charcoal Fabric
##
                                                       Loved it!
                                                                                     1
           4 2018-07-31 00:00:00 Walnut Finish
##
    3
                                                       Sometimes while play~
                                                                                     1
##
    4
           5 2018-07-31 00:00:00 Charcoal Fabric
                                                       I have had a lot of ~
                                                                                     1
##
    5
           5 2018-07-31 00:00:00 Charcoal Fabric
                                                       Music
                                                                                     1
           5 2018-07-31 00:00:00 Heather Gray Fabric I received the echo ~
##
    6
                                                                                     1
##
    7
           3 2018-07-31 00:00:00 Sandstone Fabric
                                                                                     1
                                                       Without having a cel~
           5 2018-07-31 00:00:00 Charcoal Fabric
##
    8
                                                       I think this is the ~
                                                                                     1
##
    9
           5 2018-07-30 00:00:00 Heather Gray Fabric looks great
                                                                                     1
           5 2018-07-30 00:00:00 Heather Gray Fabric Love it! I've listen~
                                                                                     1
## # i 3,140 more rows
```

7a. Number of observations of alexa

```
print(dim(alexa))
## [1] 3150
               5
7b. Group the variations and get the total of each variations.
total_variation <- alexa ">" group_by(variation) ">" summarise(total = n())
total_variation
## # A tibble: 16 x 2
##
      variation
                                   total
##
      <chr>
                                    <int>
## 1 Black
                                      261
## 2 Black Dot
                                      516
## 3 Black Plus
                                      270
## 4 Black Show
                                      265
## 5 Black Spot
                                      241
## 6 Charcoal Fabric
                                      430
```

350

157

14

90

9

91

184

78

85

109

7c. Plotting the variations

7 Configuration: Fire TV Stick

8 Heather Gray Fabric

10 Sandstone Fabric

11 Walnut Finish

9 Oak Finish

13 White Dot

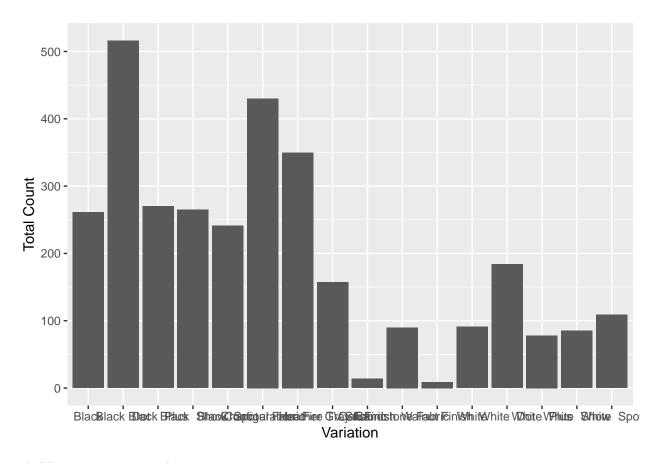
14 White Plus

15 White Show

16 White Spot

12 White

```
ggplot(total_variation, aes(x = variation, y = total)) + geom_bar(stat = "identity") + labs(x = "Variat")
```



7d. Plotting using geom_line.

```
ggplot(alexa, aes(x = date, y = verified_reviews)) + geom_line() +labs(x = "Date", y = "Verified Review")
```

are some serious flaws, particularly if you are the last one to bed or the first to wake. It doesn't seem like the engineer expensive alternative option to fill the gap. Ordered the Amazon Fire Stick from Best Buy. Instructions were short and "one of the lights by saying " Alexa, turn off the second light". In the Alexa app, I created a 'Group' with " out lately I've been getting terrible support. The guy that took my call just rambled off a (completely unhelpful) script an application and the second light" In the Alexa app, I created a 'Group' with " out lately I've been getting terrible support. The guy that took my call just rambled off a (completely unhelpful) script an application and second light" In the Alexa app, I created a 'Group' with " out lately I've been getting terrible support. The guy that took my call just rambled off a (completely unhelpful) script an application application application application application applications and Ratings.

7e. Getting the relationship of Variations and Ratings.

