Untitled

2024-12-10

```
#1
#a
library(readxl)
data <- read.csv ("mpg.csv")
data</pre>
```

##		Х	manufacturer	model	displ	year	cyl	trans	${\tt drv}$	cty
##	1	1	audi	a4	1.8	1999	4	auto(15)	f	18
##	2	2	audi	a4		1999	4	manual(m5)	f	21
##	3	3	audi	a4	2.0	2008	4	manual(m6)	f	20
##	4	4	audi	a4		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		1999	4	manual(m5)	4	18
##	9	9	audi	a4 quattro		1999	4	auto(15)	4	16
##	10	10	audi	a4 quattro		2008	4	manual(m6)	4	20
##	11	11	audi	a4 quattro	2.0	2008	4	auto(s6)	4	19
##	12	12	audi	a4 quattro		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		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		2008	8	auto(14)	r	14
##	20	20	chevrolet	c1500 suburban 2wd		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		1999	8	auto(14)	r	13
##	23	23	chevrolet	c1500 suburban 2wd	6.0	2008	8	auto(14)	r	12
##	24	24	chevrolet	corvette	5.7	1999	8	manual(m6)	r	16
##	25	25	chevrolet	corvette		1999	8	auto(14)	r	15
##	26	26	chevrolet	corvette		2008	8	manual(m6)	r	16
##	27	27	chevrolet	corvette	6.2	2008	8	auto(s6)	r	15
##	28	28	chevrolet	corvette		2008	8	manual(m6)	r	15
##	29	29	chevrolet	k1500 tahoe 4wd		2008	8	auto(14)	4	14
##	30	30	chevrolet	k1500 tahoe 4wd	5.3	2008	8	auto(14)	4	11
##	31	31	chevrolet	k1500 tahoe 4wd	5.7	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	3.1	1999	6	auto(14)	f	18
##	36	36	chevrolet	malibu	3.5	2008	6	auto(14)	f	18
##	37	37	chevrolet	malibu	3.6	2008	6	auto(s6)	f	17

##		38	dodge	caravan	2wd		1999	4	auto(13)	f	18
	39	39	dodge	caravan	2wd		1999	6	auto(14)	f	17
##		40	dodge	caravan			1999	6	auto(14)	f	16
##		41	dodge	caravan			1999	6	auto(14)	f	16
	42	42	dodge	caravan			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			2008	6	auto(16)	f	16
	48	48	dodge	caravan			2008	6	auto(16)	f	16
	49	49	dodge	dakota pickup			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	4.7	2008	8	auto(15)	4	14
	54	54	dodge	dakota pickup			2008	8	auto(15)	4	14
##	55	55	dodge	dakota pickup			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(15)	4	13
##	60	60	dodge	durango	4wd		2008	8	auto(15)	4	9
##	61	61	dodge	durango	4wd	4.7	2008	8	auto(15)	4	13
##	62	62	dodge	durango	4wd	5.2	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			2008	8	auto(15)	4	9
##	67	67	dodge	ram 1500 pickup			2008	8	auto(15)	4	13
	68	68	dodge	ram 1500 pickup			2008	8	auto(15)	4	13
	69	69	dodge	ram 1500 pickup			2008	8	manual(m6)	4	12
	70	70	dodge	ram 1500 pickup			2008	8	manual(m6)	4	9
	71	71	dodge	ram 1500 pickup			1999	8	auto(14)	4	11
	72	72	dodge	ram 1500 pickup			1999	8	manual(m5)	4	11
	73	73	dodge	ram 1500 pickup			2008	8	auto(15)	4	13
	74	74	dodge	ram 1500 pickup			1999	8	auto(14)	4	11
	75	75	ford	expedition			1999	8	auto(14)	r	11
	76	76	ford	expedition			1999	8	auto(14)	r	11
	77	77	ford	expedition			2008	8	auto(16)	r	12
	78	78	ford	explorer			1999	6	auto(15)	4	14
	79	79	ford	explorer			1999		manual(m5)	4	15
	80	80	ford	explorer			1999	6	auto(15)	4	14
##		81	ford	explorer			2008	6	auto(15)	4	13
	82	82	ford	explorer			2008	8	auto(16)	4	13
	83	83	ford	explorer			1999	8	auto(14)	4	13
	84	84	ford	f150 pickup			1999	6	auto(14)	4	14
##		85	ford	f150 pickup			1999		manual(m5)	4	14
	86	86	ford	f150 pickup			1999	8		4	13
	87	87	ford	f150 pickup			1999	8	auto(14)	4	13
	88	88	ford	f150 pickup			2008	8	auto(14)	4	13
##		89	ford	f150 pickup			1999	8	auto(14)	4	11
	90	90	ford	f150 pickup			2008	8	auto(14)	4	13
##	91	91	ford	must	tang	3.8	1999	6	manual(m5)	r	18

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## 92
         92
                     ford
                                                        3.8 1999
                                                                    6
                                                                         auto(14)
                                                                                        18
                                            mustang
                                                                                     r
##
   93
         93
                     ford
                                                                    6 manual(m5)
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                                                        4.0 2008
                                                                                     r
                                            mustang
##
   94
         94
                     ford
                                            mustang
                                                       4.0 2008
                                                                         auto(15)
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##
   95
         95
                     ford
                                                       4.6
                                                            1999
                                                                         auto(14)
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                                            mustang
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##
   96
         96
                     ford
                                            mustang
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                                                                      manual(m5)
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   97
         97
                     ford
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##
                                            mustang
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##
   98
         98
                     ford
                                            mustang
                                                       4.6 2008
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## 99
         99
                     ford
                                            mustang
                                                       5.4 2008
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                                                                      manual(m6)
                                                                                     r
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   100 100
                    honda
                                              civic
                                                        1.6
                                                            1999
                                                                      manual(m5)
                                                                                     f
                                                                                         28
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##
   101 101
                    honda
                                              civic
                                                       1.6 1999
                                                                         auto(14)
                                                                                     f
   102 102
                    honda
                                              civic
                                                       1.6 1999
                                                                      manual(m5)
                                                                                     f
                                                                                        25
                                                                                        23
   103 103
                                                            1999
                                                                                     f
##
                    honda
                                              civic
                                                       1.6
                                                                      manual(m5)
##
   104
       104
                    honda
                                                       1.6
                                                            1999
                                                                         auto(14)
                                                                                     f
                                                                                         24
                                              civic
##
   105 105
                    honda
                                              civic
                                                        1.8
                                                            2008
                                                                      manual(m5)
                                                                                     f
                                                                                        26
   106 106
                    honda
                                                            2008
                                                                                     f
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##
                                              civic
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##
   107 107
                    honda
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                                              civic
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##
   108 108
                    honda
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                                                                      manual(m6)
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   109 109
                  hyundai
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                  hyundai
  110 110
                                                       2.4 1999
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##
                                                                      manual(m5)
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   111 111
                  hyundai
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##
  112 112
                  hyundai
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## 113 113
                  hyundai
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                                             sonata
                                                                         auto(14)
## 114 114
                  hyundai
                                                       2.5 1999
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                                                                    6 manual(m5)
                                             sonata
## 115 115
                  hyundai
                                                       3.3 2008
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                                             sonata
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## 116 116
                  hyundai
                                            tiburon
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  117 117
                  hyundai
                                            tiburon
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##
  118 118
                  hyundai
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   119
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                  hyundai
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## 120 120
                  hyundai
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## 121 121
                  hyundai
                                            tiburon
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                                                                      manual(m6)
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## 122 122
                  hyundai
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##
   123 123
                                grand cherokee 4wd
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                     jeep
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   124 124
                                grand cherokee
                                                        3.7
                                                            2008
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                     jeep
   125 125
                                                                                        15
##
                                grand cherokee 4wd
                                                        4.0
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                     jeep
   126
       126
                                grand cherokee 4wd
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                     jeep
##
  127 127
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                     jeep
                                grand cherokee 4wd
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                                                            2008
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## 128 128
                     jeep
                                grand cherokee 4wd
                                                        4.7
                                                            2008
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                                                                                         14
## 129 129
                                grand cherokee 4wd
                                                       5.7 2008
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                                                                         auto(15)
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                     jeep
## 130 130
                                                       6.1 2008
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                                                                         auto(15)
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                     jeep
                                grand cherokee 4wd
  131 131
##
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              land rover
                                       range rover
                                                        4.0 1999
                                                                         auto(14)
   132 132
              land rover
                                                                                        12
                                       range rover
                                                        4.2 2008
                                                                    8
                                                                         auto(s6)
                                                                                        12
##
   133 133
              land rover
                                                        4.4 2008
                                                                    8
                                                                         auto(s6)
                                                                                     4
                                       range rover
   134 134
              land rover
                                        range rover
                                                        4.6
                                                            1999
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                                                                         auto(14)
                                                                                        11
##
   135
       135
                  lincoln
                                                        5.4
                                                            1999
                                                                    8
                                                                         auto(14)
                                                                                        11
                                     navigator 2wd
                                                                                     r
  136 136
                  lincoln
                                     navigator 2wd
                                                        5.4 1999
                                                                    8
                                                                         auto(14)
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                                                                                     r
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## 137 137
                                                       5.4
                                                            2008
                                                                    8
                  lincoln
                                     navigator
                                                2wd
                                                                         auto(16)
                                                                                     r
##
   138 138
                  mercury
                                   mountaineer 4wd
                                                        4.0
                                                            1999
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                                                                         auto(15)
                                                                                        14
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##
   139 139
                  mercury
                                   mountaineer 4wd
                                                        4.0
                                                            2008
                                                                    6
                                                                         auto(15)
                                                       4.6
   140 140
                                   mountaineer 4wd
                                                            2008
                                                                    8
                                                                         auto(16)
                                                                                     4
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                  mercury
##
   141 141
                  mercury
                                   mountaineer 4wd
                                                       5.0
                                                            1999
                                                                    8
                                                                         auto(14)
                                                                                     4
                                                                                        13
##
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                                                                                        21
   142
       142
                                             altima
                                                       2.4
                                                            1999
                                                                    4
                                                                      manual(m5)
                   nissan
## 143 143
                   nissan
                                             altima
                                                       2.4 1999
                                                                         auto(14)
                                                                                     f
                                                                                        19
                                                                         auto(av)
## 144 144
                   nissan
                                             altima
                                                       2.5 2008
                                                                    4
                                                                                     f
                                                                                        23
## 145 145
                   nissan
                                             altima
                                                       2.5 2008
                                                                    4 manual(m6)
                                                                                     f
                                                                                        23
```

##	146		nissan	altima		2008		manual(m6)	f	19
##	147		nissan	altima		2008	6	auto(av)	f	19
##	148		nissan	maxima		1999	6	auto(14)	f	18
##	149		nissan	maxima	3.0	1999	6	manual(m5)	f	19
##	150		nissan	maxima		2008	6	auto(av)	f	19
##	151		nissan	pathfinder 4wd		1999	6	auto(14)	4	14
##	152		nissan	pathfinder 4wd		1999	6	manual(m5)	4	15
##	153		nissan	pathfinder 4wd		2008	6	auto(15)	4	14
##	154		nissan	pathfinder 4wd		2008	8	auto(s5)	4	12
##	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	5.3		8	auto(s4)	f	16
##	160		subaru	forester awd		1999	4	manual(m5)	4	18
##	161		subaru	forester awd		1999	4	auto(14)	4	18
##	162		subaru	forester awd		2008	4	manual(m5)	4	20
##	163		subaru	forester awd		2008	4	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	167	subaru	impreza awd		1999	4		4	19
##	168	168	subaru	impreza awd		1999	4		4	19
##	169	169	subaru	impreza awd	2.5	1999	4	auto(14)	4	19
##	170	170	subaru	impreza awd	2.5	2008	4	auto(s4)	4	20
##	171	171	subaru	impreza awd	2.5	2008	4	auto(s4)	4	20
##	172	172	subaru	impreza awd	2.5	2008	4	manual(m5)	4	19
##	173	173	subaru	impreza awd	2.5	2008	4	manual(m5)	4	20
##	174		toyota	4runner 4wd	2.7	1999	4	manual(m5)	4	15
##	175		toyota	4runner 4wd	2.7	1999	4	auto(14)	4	16
##	176	176	toyota	4runner 4wd		1999	6	auto(14)	4	15
##	177		toyota	4runner 4wd		1999	6	manual(m5)	4	15
##	178		toyota	4runner 4wd		2008	6	auto(15)	4	16
##	179		toyota	4runner 4wd	4.7	2008	8	auto(15)	4	14
##	180	180	toyota	camry		1999	4	manual(m5)	f	21
##	181		toyota	camry		1999	4	auto(14)	f	21
	182		toyota	camry		2008	4	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	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	4	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	193	toyota	camry solara	3.3	2008	6	auto(s5)	f	18
	194		toyota	corolla		1999	4	auto(13)	f	24
	195		toyota	corolla		1999	4	auto(14)	f	24
	196		toyota	corolla		1999		manual(m5)	f	26
##	197	197	toyota	corolla		2008	4	manual(m5)	f	28
##	198	198	toyota	corolla		2008	4	auto(14)	f	26
##	199	199	toyota	land cruiser wagon 4wd	4.7	1999	8	auto(14)	4	11

```
## 200 200
                   toyota land cruiser wagon 4wd
                                                      5.7 2008
                                                                       auto(s6)
                                                                                       13
## 201 201
                                                                   4 manual(m5)
                                                                                    4
                                                                                       15
                                toyota tacoma 4wd
                                                      2.7 1999
                   toyota
                                toyota tacoma 4wd
                                                                       auto(14)
                                                                                       16
## 202 202
                   toyota
                                                      2.7 1999
## 203 203
                                                                                       17
                                                      2.7 2008
                                                                                    4
                   toyota
                                toyota tacoma 4wd
                                                                    manual(m5)
## 204 204
                   toyota
                                toyota tacoma 4wd
                                                      3.4 1999
                                                                     manual(m5)
                                                                                    4
                                                                                       15
## 205 205
                                                                                    4
                                                                                       15
                   toyota
                                toyota tacoma 4wd
                                                      3.4 1999
                                                                       auto(14)
## 206 206
                                                      4.0 2008
                                                                                       15
                   toyota
                                toyota tacoma 4wd
                                                                   6
                                                                     manual(m6)
## 207 207
                   toyota
                                toyota tacoma 4wd
                                                      4.0 2008
                                                                   6
                                                                       auto(15)
                                                                                    4
                                                                                       16
## 208 208
              volkswagen
                                                      2.0 1999
                                                                   4 manual(m5)
                                                                                    f
                                                                                       21
                                                gti
## 209 209
                                                                                       19
              volkswagen
                                                gti
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                                                                       auto(14)
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## 210 210
              volkswagen
                                               gti
                                                      2.0 2008
                                                                     manual(m6)
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## 211 211
                                                      2.0 2008
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              volkswagen
                                                gti
                                                                       auto(s6)
## 212 212
              volkswagen
                                                      2.8 1999
                                                                     manual(m5)
                                                                                   f
                                                                                       17
                                                gti
## 213 213
              volkswagen
                                                                                       33
                                             jetta
                                                      1.9 1999
                                                                     manual(m5)
                                                                                    f
## 214 214
                                                      2.0 1999
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              volkswagen
                                             jetta
                                                                     manual(m5)
## 215 215
              volkswagen
                                             jetta
                                                      2.0 1999
                                                                   4
                                                                       auto(14)
                                                                                    f
                                                                                       19
## 216 216
                                                                                    f
                                                                                       22
              volkswagen
                                                      2.0 2008
                                                                   4
                                                                       auto(s6)
                                             jetta
## 217 217
              volkswagen
                                                      2.0 2008
                                                                     manual(m6)
                                                                                       21
                                             jetta
## 218 218
                                                      2.5 2008
                                                                                       21
              volkswagen
                                                                       auto(s6)
                                                                                   f
                                             jetta
## 219 219
              volkswagen
                                             jetta
                                                      2.5 2008
                                                                    manual(m5)
                                                                                   f
                                                                                       21
## 220 220
              volkswagen
                                             jetta
                                                      2.8 1999
                                                                       auto(14)
                                                                                   f
                                                                                       16
## 221 221
              volkswagen
                                                      2.8 1999
                                                                    manual(m5)
                                                                                       17
                                             jetta
## 222 222
                                                                     manual(m5)
                                                                                       35
              volkswagen
                                        new beetle
                                                      1.9 1999
                                                                                   f
## 223 223
                                                      1.9 1999
                                                                                   f
                                                                                       29
              volkswagen
                                        new beetle
                                                                       auto(14)
## 224 224
                                                                                       21
              volkswagen
                                        new beetle
                                                      2.0 1999
                                                                     manual(m5)
                                                                                    f
## 225 225
              volkswagen
                                        new beetle
                                                      2.0 1999
                                                                       auto(14)
                                                                                   f
                                                                                       19
## 226 226
              volkswagen
                                                      2.5
                                                           2008
                                                                     manual(m5)
                                                                                    f
                                                                                       20
                                        new beetle
                                                                   5
## 227 227
                                                                                   f
                                                                                       20
              volkswagen
                                        new beetle
                                                      2.5 2008
                                                                   5
                                                                       auto(s6)
## 228 228
                                                                                    f
                                                                                       21
              volkswagen
                                            passat
                                                      1.8 1999
                                                                     manual(m5)
## 229 229
              volkswagen
                                                      1.8 1999
                                                                   4
                                                                       auto(15)
                                                                                   f
                                                                                       18
                                            passat
## 230 230
              volkswagen
                                            passat
                                                      2.0 2008
                                                                   4
                                                                       auto(s6)
                                                                                   f
                                                                                       19
##
   231 231
              volkswagen
                                                      2.0 2008
                                                                     manual(m6)
                                                                                   f
                                                                                       21
                                            passat
   232 232
                                                                                       16
##
              volkswagen
                                                      2.8 1999
                                                                       auto(15)
                                            passat
                                                                     manual(m5)
   233 233
                                                                                       18
##
              volkswagen
                                                      2.8 1999
                                            passat
                                                                   6
                                                                                   f
##
   234 234
              volkswagen
                                                      3.6 2008
                                                                       auto(s6)
                                                                                   f
                                                                                       17
                                            passat
##
       hwy fl
                     class
##
  1
        29
             р
                   compact
##
  2
        29
                   compact
             р
##
   3
        31
             p
                   compact
##
  4
        30
                   compact
##
  5
        26
             p
                   compact
## 6
        26
                   compact
##
   7
        27
             p
                   compact
## 8
        26
                   compact
## 9
        25
                   compact
             p
## 10
        28
             р
                   compact
##
        27
  11
                   compact
             p
##
   12
        25
             p
                   compact
##
   13
        25
                   compact
             р
        25
##
   14
                   compact
             p
##
   15
        25
                   compact
             p
## 16
        24
             р
                  midsize
        25
## 17
             p
                  midsize
## 18
        23
                  midsize
             р
```

##	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		minivan
##	39	24	r	minivan
			r	
##	40	22	r	minivan
##	41	22	r	minivan
##	42	24	r	minivan
##	43	24	r	minivan
##	44	17	е	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	r	pickup
##	52	17	r	pickup
##	53	19	r	pickup
##	54	19	r	pickup
##	55	12	е	pickup
##	56	17	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	e	pickup
##	67	17	r	pickup
##	68	17	r	pickup
##	69	16		
##	70		r	pickup
		12 15	e ~	pickup
##	71	15	r	pickup
##	72	16	r	pickup

```
## 73
        17
             r
                   pickup
## 74
        15
             r
                   pickup
  75
##
        17
                       suv
##
  76
        17
             r
                       suv
##
   77
        18
             r
                       suv
##
  78
        17
                       suv
##
  79
        19
                       suv
             r
## 80
        17
                       suv
##
   81
        19
             r
                       suv
## 82
        19
                       suv
##
   83
        17
             r
                       suv
##
  84
        17
                   pickup
##
   85
        17
             r
                   pickup
## 86
        16
                   pickup
## 87
        16
                   pickup
             r
## 88
        17
                   pickup
##
   89
        15
                   pickup
##
   90
        17
                   pickup
##
  91
        26
             r subcompact
## 92
        25
             r subcompact
##
  93
        26
             r subcompact
## 94
             r subcompact
## 95
             r subcompact
        21
##
   96
        22
             r subcompact
## 97
             r subcompact
## 98
        22
             r subcompact
## 99
        20
             p subcompact
##
   100
        33
             r subcompact
        32
## 101
             r subcompact
## 102
        32
             r subcompact
        29
## 103
             p subcompact
##
  104
        32
             r subcompact
##
   105
        34
             r subcompact
##
  106
        36
             r subcompact
        36
##
   107
             c subcompact
        29
## 108
             p subcompact
## 109
        26
                  midsize
## 110
        27
             r
                  midsize
        30
## 111
             r
                  midsize
## 112
        31
                  midsize
## 113
        26
                  midsize
                  midsize
## 114
        26
## 115
        28
                  midsize
## 116
        26
             r subcompact
## 117
        29
             r subcompact
## 118
        28
             r subcompact
## 119
        27
             r subcompact
## 120
        24
             r subcompact
## 121
        24
             r subcompact
## 122
        24
             r subcompact
        22
## 123
                       suv
## 124
        19
                       suv
## 125
        20
             r
                       suv
## 126
        17
                       suv
```

```
## 127
        12
                       suv
## 128
        19
             r
                       suv
## 129
        18
             r
                       suv
## 130
        14
                       suv
             p
## 131
        15
             р
                       suv
## 132
        18
             r
                       suv
## 133
        18
             r
                       suv
## 134
        15
             p
                       suv
## 135
        17
             r
                       suv
## 136
        16
             p
                       suv
## 137
        18
            r
                       suv
## 138
        17
                       suv
## 139
        19
             r
                       suv
## 140
        19
                       suv
## 141
        17
                       suv
             r
        29
## 142
             r
                  compact
## 143
        27
                  compact
             r
## 144
        31
                  midsize
             r
## 145
        32
                  midsize
            r
## 146
        27
                  midsize
## 147
        26
             р
                  midsize
## 148
        26
             r
                  midsize
## 149
        25
                  midsize
            r
        25
## 150
             р
                  midsize
## 151
        17
             r
                       suv
## 152
        17
             r
                       suv
## 153
        20
             p
                       suv
## 154
        18
                       suv
             р
## 155
        26
                  midsize
## 156
        26
                  midsize
             p
## 157
        27
                  midsize
             r
## 158
        28
            r
                  midsize
## 159
        25
                  midsize
             p
## 160
        25
             r
                       suv
        24
## 161
             r
                       suv
## 162
        27
                       suv
        25
## 163
             p
                       suv
## 164
        26
             r
                       suv
## 165
        23
             p
                       suv
## 166
        26
             r subcompact
## 167
        26
             r subcompact
## 168
        26
             r subcompact
## 169
        26
             r subcompact
## 170
        25
             p
                  compact
        27
## 171
             r
                  compact
## 172
        25
                  compact
             p
## 173
        27
                  compact
             r
        20
## 174
                       suv
## 175
        20
            r
                       suv
## 176
        19
                       suv
## 177
        17
             r
                       suv
## 178
        20
                       suv
## 179
        17
            r
                       suv
## 180
        29
                  midsize
```

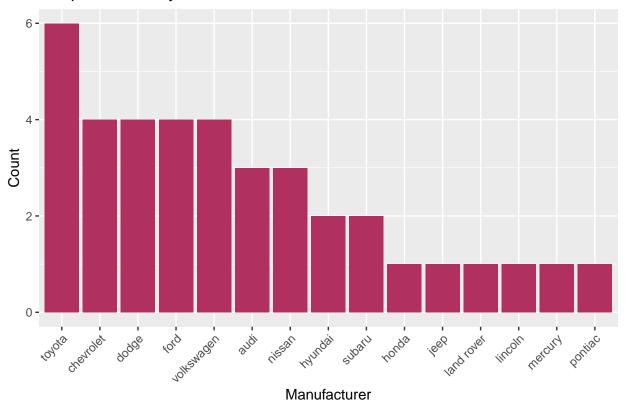
```
## 181
         27
                  midsize
             r
## 182
        31
                  midsize
             r
## 183
         31
                  midsize
## 184
        26
                  midsize
             r
         26
##
   185
             r
                  midsize
## 186
        28
                  midsize
             r
## 187
         27
                   compact
             r
## 188
                   compact
        29
             r
## 189
         31
             r
                   compact
## 190
         31
                   compact
   191
         26
             r
                   compact
## 192
         26
                   compact
##
   193
         27
                   compact
         30
## 194
                   compact
## 195
        33
                   compact
             r
## 196
         35
             r
                   compact
## 197
         37
                   compact
             r
##
   198
         35
                   compact
             r
## 199
        15
                       suv
             r
## 200
         18
                       suv
##
   201
        20
             r
                   pickup
## 202
         20
             r
                   pickup
## 203
        22
                   pickup
             r
## 204
        17
             r
                   pickup
## 205
         19
                   pickup
   206
        18
             r
                   pickup
## 207
         20
                   pickup
##
   208
         29
                   compact
             r
## 209
         26
                   compact
## 210
         29
                   compact
             p
## 211
         29
             p
                   compact
## 212
        24
             r
                   compact
## 213
         44
                   compact
## 214
        29
                   compact
             r
## 215
         26
                   compact
             r
## 216
        29
                   compact
             p
## 217
         29
             p
                   compact
## 218
        29
             r
                   compact
## 219
         29
                   compact
             r
## 220
        23
                   compact
             r
## 221
         24
             r
                   compact
## 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
                  midsize
             p
##
   229
        29
             p
                  midsize
##
   230
        28
                  midsize
             р
##
   231
        29
                  midsize
             р
## 232
        26
                  midsize
             р
## 233
        26
             р
                  midsize
## 234
        26
                  midsize
```

```
# Inside the mpg dataset are manufacturer, model, trans, drv, fl, and class.
#The continuous variables inside the mpq dataset are displ, cty, and hwy.
#The manufacturer with the most models in this dataset is Toyota, with 6 unique models. The model with
#a
library(ggplot2)
## Warning: package 'ggplot2' was built under R version 4.4.2
library(dplyr)
## Warning: package 'dplyr' was built under R version 4.4.2
##
## 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
mnfctrModelCount <- data %>%
  group_by(manufacturer) %>%
  summarise(unique_models = n_distinct(model)) %>%
  arrange(desc(unique_models))
mnfctrModelCount
## # A tibble: 15 x 2
##
     manufacturer unique_models
##
      <chr>
                           <int>
## 1 toyota
                               6
## 2 chevrolet
                               4
## 3 dodge
                               4
## 4 ford
                               4
## 5 volkswagen
                               4
## 6 audi
                               3
## 7 nissan
                               3
## 8 hyundai
                               2
## 9 subaru
                               2
## 10 honda
                               1
## 11 jeep
                               1
```

```
## 12 land rover 1
## 13 lincoln 1
## 14 mercury 1
## 15 pontiac 1
```

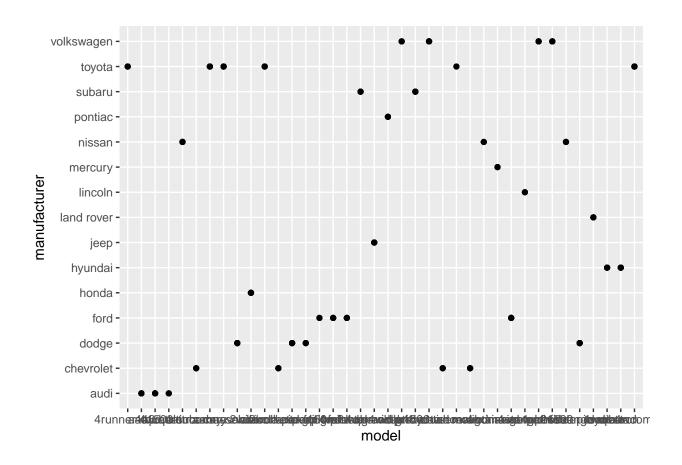
```
ggplot(mnfctrModelCount , aes(x = reorder(manufacturer, -unique_models), y = unique_models)) +
   geom_bar(stat = "Identity", fill = "maroon") +
   labs(title = "Unique Models by Manufacturer", x = "Manufacturer", y = "Count") + theme(axis.text.x = count")
```

Unique Models by Manufacturer



```
#2
#a

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



 ${\it \#Creates\ scatter\ plot\ where\ every\ single\ point\ represents\ a\ specific\ model-manufacturer\ combination.}$

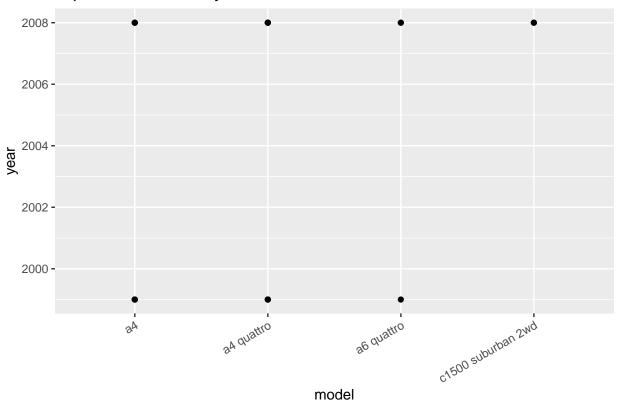
```
# It is useful , however the output is a little bit messy making it hard to understand.
#3
library(ggplot2)
library(dplyr)

Top20 <-data %>% head(20)

ggplot(Top20, aes(x = model, y = year)) +
    geom_point() +
    labs(title = "Top 20 Car Models by Year") +
    theme(axis.text.x = element_text(angle = 30, hjust = 1))
```

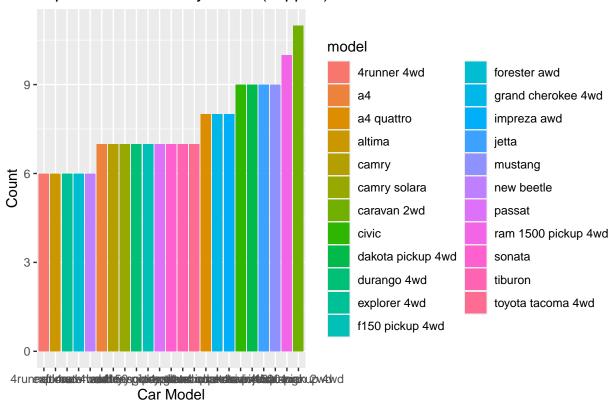
#b

Top 20 Car Models by Year

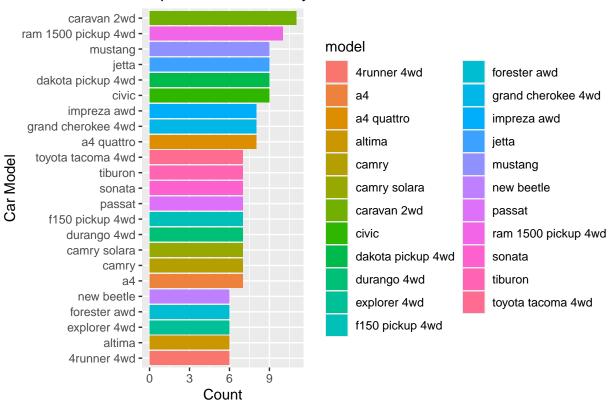


```
model_count <- data %>%
 group_by(model) %>%
 summarise(car_count = n())
model_count
## # A tibble: 38 x 2
     model
##
                        car_count
##
      <chr>
                            <int>
## 1 4runner 4wd
                                6
## 2 a4
                                7
                                8
## 3 a4 quattro
                                3
## 4 a6 quattro
## 5 altima
                                6
## 6 c1500 suburban 2wd
                                5
## 7 camry
                                7
                                7
## 8 camry solara
## 9 caravan 2wd
                               11
                                9
## 10 civic
## # i 28 more rows
Top_20_Models <- model_count %>% top_n(20, car_count)
```

Top 20 Car Models by Count (Flipped)



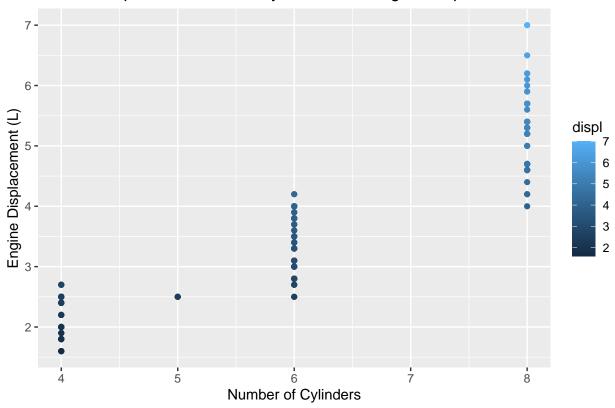
Top 20 Car Models by Count



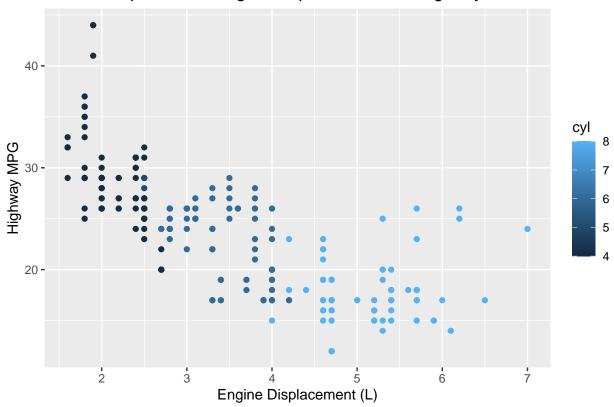
```
#5
#a
# Cylinder counts aligns with Engine displacement

ggplot(data, aes(x = cyl, y = displ, color = displ)) +
    geom_point() +
    labs(title = "Relationship between No. of Cylinders and Engine Displacement",
        x = "Number of Cylinders",
        y = "Engine Displacement (L)")
```

Relationship between No. of Cylinders and Engine Displacement



Relationship between Engine Displacement and Highway MPG



#6. Import the traffic.csv onto your R environment.

DATA_traffic <- read.csv("~/traffic.csv")

DATA_traffic

##			${\tt DateTime}$	${\tt Junction}$	Vehicles	ID
##	1	2015-11-01	00:00:00	1	15	20151101001
##	2	2015-11-01	01:00:00	1	13	20151101011
##	3	2015-11-01	02:00:00	1	10	20151101021
##	4	2015-11-01	03:00:00	1	7	20151101031
##	5	2015-11-01	04:00:00	1	9	20151101041
##	6	2015-11-01	05:00:00	1	6	20151101051
##	7	2015-11-01	06:00:00	1	9	20151101061
##	8	2015-11-01	07:00:00	1	8	20151101071
##	9	2015-11-01	08:00:00	1	11	20151101081
##	10	2015-11-01	09:00:00	1	12	20151101091
##	11	2015-11-01	10:00:00	1	15	20151101101
##	12	2015-11-01	11:00:00	1	17	20151101111
##	13	2015-11-01	12:00:00	1	16	20151101121
##	14	2015-11-01	13:00:00	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	2015-11-02	13:00:00	1	26	20151102131
##	39	2015-11-02	14:00:00	1	34	20151102141
##	40	2015-11-02	15:00:00	1	30	20151102151
##	41		16:00:00	1	27	20151102161
##	42		17:00:00	1	27	20151102171
	43		18:00:00	1	24	20151102181
	44		19:00:00	1	26	20151102191
	45	2015-11-02		1	29	20151102101
	46	2015-11-02		1	32	20151102201
##	47	2015-11-02		1	30	20151102211
##	48	2015-11-02		1	27	20151102221
##	49	2015-11-03		1	21	20151102201
##	50	2015-11-03		1		20151103001
##	51	2015-11-03		1	19	20151103011
##	52	2015-11-03		1		20151103021
##	53	2015-11-03		1	11	20151103031
##	54	2015-11-03		1	11	20151103041
##	55	2015-11-03		1	11	20151103051
##	56	2015 11 03		1		20151103001
##	57	2015 11 03		1		20151103071
##	58	2015 11 03		1		20151103081
	59	2015 11 03		1		20151103091
	60	2015 11 03		1		20151103101
	61	2015 11 03		1		20151103111
	62	2015-11-03		1		20151103121
	63	2015-11-03		1		20151103131
	64	2015-11-03		1		
				1		20151103151
	65	2015-11-03				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		1		20151104001
	74	2015-11-04		1		20151104011
##	75	2015-11-04	02:00:00	1	13	20151104021

##	76	2015-11-04	03:00:00	1	13	20151104031
##	77	2015-11-04		1	10	20151104041
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## 24976 2017-01-06 15:00:00
                                   2
                                         17 20170106152
                                         18 20170106162
## 24977 2017-01-06 16:00:00
                                   2
## 24978 2017-01-06 17:00:00
                                   2
                                          22 20170106172
## 24979 2017-01-06 18:00:00
                                   2
                                         20 20170106182
## 24980 2017-01-06 19:00:00
                                   2
                                         20 20170106192
## 24981 2017-01-06 20:00:00
                                   2
                                         19 20170106202
                                         18 20170106212
                                   2
## 24982 2017-01-06 21:00:00
                                   2
## 24983 2017-01-06 22:00:00
                                         19 20170106222
## 24984 2017-01-06 23:00:00
                                   2
                                         21 20170106232
                                   2
                                         14 20170107002
## 24985 2017-01-07 00:00:00
## 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
                                   2
## 24989 2017-01-07 04:00:00
                                           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
                                         10 20170107082
## 24993 2017-01-07 08:00:00
                                   2
## 24994 2017-01-07 09:00:00
                                  2
                                          7 20170107092
## 24995 2017-01-07 10:00:00
                                   2
                                         11 20170107102
## 24996 2017-01-07 11:00:00
                                   2
                                          9 20170107112
## 24997 2017-01-07 12:00:00
                                   2
                                           9 20170107122
## 24998 2017-01-07 13:00:00
                                   2
                                          11 20170107132
## 24999 2017-01-07 14:00:00
                                   2
                                           13 20170107142
## [ reached 'max' / getOption("max.print") -- omitted 23121 rows ]
#a. How many numbers of observation does it have? What are the variables of the traffic dataset.
str(DATA traffic)
## 'data.frame':
                   48120 obs. of 4 variables:
## $ DateTime: chr "2015-11-01 00:00:00" "2015-11-01 01:00:00" "2015-11-01 02:00:00" "2015-11-01 03:0
## $ Junction: int 1 1 1 1 1 1 1 1 1 ...
## $ Vehicles: int 15 13 10 7 9 6 9 8 11 12 ...
## $ ID
             : num 2.02e+10 2.02e+10 2.02e+10 2.02e+10 ...
#The data have 4 variables inside which are DateTime, Junction, Vehicles and ID.
#b. subset the traffic dataset into junctions. What is the R codes and its output?
subsetDataTraffic <- subset(DATA_traffic, Junction == 1)</pre>
subsetDataTraffic
                   DateTime Junction Vehicles
##
## 1
        2015-11-01 00:00:00
                                   1
                                          15 20151101001
        2015-11-01 01:00:00
                                           13 20151101011
                                   1
```

10 20151101021

1

3

2015-11-01 02:00:00

шш	4	0015 11 01	00.00.00	4	7	00151101001
##		2015-11-01		1		20151101031
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##	6	2015-11-01	05:00:00	1	6	20151101051
##	7	2015-11-01	06:00:00	1	9	20151101061
##	8	2015-11-01	07:00:00	1	8	20151101071
##	9	2015-11-01	08:00:00	1	11	20151101081
##	10	2015-11-01		1		20151101091
##	11	2015-11-01		1	15	
##	12	2015-11-01		1	17	
##	13	2015-11-01		1		20151101121
##	14	2015-11-01	13:00:00	1	15	
##	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		1	17	20151101181
##	20	2015-11-01		1	20	
##	21	2015-11-01		1	17	
##	22	2015-11-01		1	19	
##	23	2015-11-01		1	20	
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##	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		1		20151102071
	33	2015-11-02		1		20151102071
	34	2015-11-02		1		20151102001
	35	2015-11-02		1		20151102101
	36	2015-11-02		1	31	
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##	38	2015-11-02	13:00:00	1	26	20151102131
##	39	2015-11-02	14:00:00	1	34	20151102141
##	40	2015-11-02	15:00:00	1	30	20151102151
##	41	2015-11-02	16:00:00	1	27	20151102161
##	42	2015-11-02	17:00:00	1	27	20151102171
##	43	2015-11-02	18:00:00	1		20151102181
	44	2015-11-02		1		20151102191
	45	2015-11-02		1		20151102101
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##	53	2015-11-03	04:00:00	1	11	20151103041
##	54	2015-11-03	05:00:00	1	11	20151103051
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	56	2015-11-03		1		20151103071
	57	2015-11-03		1		20151103081
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##	62	2015-11-03		1	29	
##	63	2015-11-03	14:00:00	1	27	20151103141
##	64	2015-11-03	15:00:00	1	26	20151103151
##	65	2015-11-03	16:00:00	1	28	20151103161
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##	78	2015-11-04		1		20151104051
##	79	2015-11-04		1	13	
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##	81	2015-11-04	08:00:00	1	13	20151104081
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	85			1		
##		2015-11-04			31	
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##	109	2015-11-05		1		20151105111
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##	111	2015-11-05	14:00:00	1	26	20151105141

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##	133	2015-11-06		1		20151106121
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##	136	2015-11-06	15:00:00	1	23	20151106151
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##	140	2015-11-06	19:00:00	1	24	20151106191
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##	177	2015-11-08	08:00:00	1	11	20151108081
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##	182	2015-11-08		1		20151108131
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##	186	2015-11-08	17:00:00	1	14	20151108171
##	187	2015-11-08	18:00:00	1	18	20151108181
##	188	2015-11-08	19:00:00	1	13	20151108191
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##	198	2015-11-09	05:00:00	1	8	20151109051
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##	201	2015-11-09	08:00:00	1	11	20151109081
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	203	2015-11-09		1		20151109101
	204	2015-11-09		1		20151109111
##		2015-11-09		1		
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##	208	2015-11-09		1		20151109151
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##	214	2015-11-09		1		20151109211
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##	234	2015-11-10	17:00:00	1	35	20151110171
##	235	2015-11-10	18:00:00	1	40	20151110181
##	236		19:00:00	1	40	20151110191
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##	245	2015-11-11		1	20	20151111041
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##	247	2015-11-11	06:00:00	1	17	20151111061
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##	249	2015-11-11	08:00:00	1	19	20151111081
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##	254	2015-11-11	13:00:00	1	23	20151111131
##	255	2015-11-11	14:00:00	1	23	20151111141
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	258	2015-11-11		1		20151111171
	259	2015-11-11		1		20151111181
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	271	2015-11-12		1		20151112061
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	276	2015-11-12		1		20151112111
	277	2015-11-12		1		20151112121
	278	2015-11-12		1		20151112131
	279	2015-11-12		1		20151112141
	280	2015-11-12		1		20151112151
	281	2015-11-12		1		20151112161
	282	2015-11-12		1		20151112171
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##	284	2015-11-12		1	35	20151112191
##	285	2015-11-12	20:00:00	1	38	20151112201
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##	287	2015-11-12	22:00:00	1	30	20151112221
##	288	2015-11-12	23:00:00	1	27	20151112231
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##	291	2015-11-13	02:00:00	1	16	20151113021
##	292	2015-11-13	03:00:00	1	16	20151113031
##	293	2015-11-13	04:00:00	1	13	20151113041
##	294	2015-11-13	05:00:00	1	11	20151113051
##	295	2015-11-13	06:00:00	1	13	20151113061
##	296	2015-11-13	07:00:00	1	15	20151113071
##	297	2015-11-13		1	17	20151113081
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##	299	2015-11-13		1		20151113101
	300		11:00:00	1	41	20151113111
##	301		12:00:00	1	29	20151113121
	302		13:00:00	1	25	20151113131
	303	2015-11-13	14:00:00	1	25	20151113141
##	304	2015-11-13	15:00:00	1	26	20151113151
	305	2015-11-13	16:00:00	1	25	20151113161
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	307	2015-11-13	18:00:00	1		20151113181
	308		19:00:00	1		20151113191
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## 14358 2017-06-21 05:00:00
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## 14359 2017-06-21 06:00:00
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## 14360 2017-06-21 07:00:00
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                                            54 20170621071
## 14361 2017-06-21 08:00:00
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                                            60 20170621081
                                           70 20170621091
## 14362 2017-06-21 09:00:00
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## 14363 2017-06-21 10:00:00
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                                            96 20170621101
## 14364 2017-06-21 11:00:00
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                                           103 20170621111
## 14365 2017-06-21 12:00:00
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## 14366 2017-06-21 13:00:00
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                                           97 20170621131
## 14367 2017-06-21 14:00:00
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## 14368 2017-06-21 15:00:00
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                                           102 20170621151
## 14369 2017-06-21 16:00:00
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## 14370 2017-06-21 17:00:00
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## 14371 2017-06-21 18:00:00
                                           105 20170621181
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## 14372 2017-06-21 19:00:00
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                                           109 20170621191
## 14373 2017-06-21 20:00:00
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## 14374 2017-06-21 21:00:00
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## 14375 2017-06-21 22:00:00
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## 14376 2017-06-21 23:00:00
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## 14377 2017-06-22 00:00:00
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                                            76 20170622001
## 14378 2017-06-22 01:00:00
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## 14379 2017-06-22 02:00:00
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## 14380 2017-06-22 03:00:00
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## 14381 2017-06-22 04:00:00
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## 14382 2017-06-22 05:00:00
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## 14387 2017-06-22 10:00:00
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## 14392 2017-06-22 15:00:00
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## 14393 2017-06-22 16:00:00
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## 14394 2017-06-22 17:00:00
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## 14395 2017-06-22 18:00:00
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## 14397 2017-06-22 20:00:00
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## 14398 2017-06-22 21:00:00
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## 14399 2017-06-22 22:00:00
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## 14400 2017-06-22 23:00:00
                                           84 20170622231
## 14401 2017-06-23 00:00:00
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## 14402 2017-06-23 01:00:00
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## 14403 2017-06-23 02:00:00
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## 14409 2017-06-23 08:00:00
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## 14410 2017-06-23 09:00:00
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## 14419 2017-06-23 18:00:00
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## 14420 2017-06-23 19:00:00
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## 14421 2017-06-23 20:00:00
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                                            90 20170623201
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## 14422 2017-06-23 21:00:00
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                                            81 20170623211
## 14423 2017-06-23 22:00:00
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                                            75 20170623221
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## 14425 2017-06-24 00:00:00
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## 14426 2017-06-24 01:00:00
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## 14427 2017-06-24 02:00:00
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## 14428 2017-06-24 03:00:00
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## 14429 2017-06-24 04:00:00
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## 14430 2017-06-24 05:00:00
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## 14431 2017-06-24 06:00:00
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## 14435 2017-06-24 10:00:00
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                                           51 20170624101
## 14436 2017-06-24 11:00:00
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## 14444 2017-06-24 19:00:00
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## 14445 2017-06-24 20:00:00
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## 14446 2017-06-24 21:00:00
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## 14449 2017-06-25 00:00:00
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## 14460 2017-06-25 11:00:00
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## 14469 2017-06-25 20:00:00
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## 14473 2017-06-26 00:00:00
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## 14474 2017-06-26 01:00:00
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## 14475 2017-06-26 02:00:00
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## 14476 2017-06-26 03:00:00
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## 14477 2017-06-26 04:00:00
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## 14478 2017-06-26 05:00:00
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## 14480 2017-06-26 07:00:00
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## 14481 2017-06-26 08:00:00
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## 14482 2017-06-26 09:00:00
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## 14483 2017-06-26 10:00:00
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## 14484 2017-06-26 11:00:00
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## 14488 2017-06-26 15:00:00
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## 14501 2017-06-27 04:00:00
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## 14502 2017-06-27 05:00:00
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## 14510 2017-06-27 13:00:00
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## 14517 2017-06-27 20:00:00
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## 14519 2017-06-27 22:00:00
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## 14522 2017-06-28 01:00:00
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## 14525 2017-06-28 04:00:00
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## 14526 2017-06-28 05:00:00
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## 14527 2017-06-28 06:00:00
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## 14529 2017-06-28 08:00:00
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## 14530 2017-06-28 09:00:00
                                            70 20170628091
## 14531 2017-06-28 10:00:00
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## 14547 2017-06-29 02:00:00
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## 14551 2017-06-29 06:00:00
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                                           104 20170629101
## 14556 2017-06-29 11:00:00
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## 14557 2017-06-29 12:00:00
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## 14566 2017-06-29 21:00:00
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## 14572 2017-06-30 03:00:00
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## 14573 2017-06-30 04:00:00
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## 14574 2017-06-30 05:00:00
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## 14575 2017-06-30 06:00:00
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## 14579 2017-06-30 10:00:00
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## 14580 2017-06-30 11:00:00
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## 14581 2017-06-30 12:00:00
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                                            99 20170630121
## 14582 2017-06-30 13:00:00
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## 14583 2017-06-30 14:00:00
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## 14584 2017-06-30 15:00:00
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## 14585 2017-06-30 16:00:00
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## 14586 2017-06-30 17:00:00
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## 14587 2017-06-30 18:00:00
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## 14588 2017-06-30 19:00:00
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## 14589 2017-06-30 20:00:00
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## 14590 2017-06-30 21:00:00
                                    1
                                           90 20170630211
## 14591 2017-06-30 22:00:00
                                           84 20170630221
                                    1
## 14592 2017-06-30 23:00:00
                                           78 20170630231
#c.Plot each junction in a using geom_line(). Show your solution and output.
library(ggplot2)
ggplot(subsetDataTraffic, aes(x = DateTime, y = Vehicles, color = Junction)) +
 geom_line() +
 labs(title = "Traffic Counts by Junction", x = "Date & Time", y = "Vehicles")
## 'geom_line()': Each group consists of only one observation.
## i Do you need to adjust the group aesthetic?
       Traffic Counts by Junction
   150 -
```



0-____

Date & Time

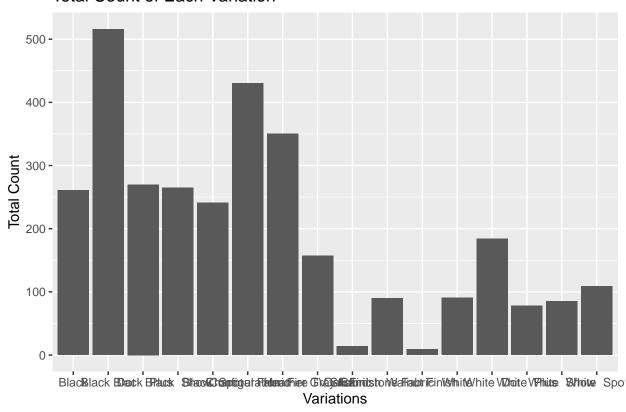
```
#7
library(readxl)
alexa <- read_excel("alexa_file.xlsx")
alexa</pre>
```

```
## # A tibble: 3,150 x 5
##
                                                verified_reviews
                                                                     feedback
     rating date
                               variation
      <dbl> <dttm>
##
                               <chr>
                                                  <chr>
                                                                          <dbl>
          5 2018-07-31 00:00:00 Charcoal Fabric
## 1
                                                  Love my Echo!
                                                                              1
          5 2018-07-31 00:00:00 Charcoal Fabric
##
                                                 Loved it!
                                                                              1
## 3
          1
          5 2018-07-31 00:00:00 Charcoal Fabric
                                                 I have had a lot of ~
                                                                              1
          5 2018-07-31 00:00:00 Charcoal Fabric Music
## 5
                                                                              1
## 6
         5 2018-07-31 00:00:00 Heather Gray Fabric I received the echo ~
                                                                              1
## 7
          3 2018-07-31 00:00:00 Sandstone Fabric Without having a cel~
                                                                              1
## 8
          5 2018-07-31 00:00:00 Charcoal Fabric
                                                  I think this is the \sim
                                                                              1
## 9
          5 2018-07-30 00:00:00 Heather Gray Fabric looks great
                                                                              1
## 10
          5 2018-07-30 00:00:00 Heather Gray Fabric Love it! I've listen~
                                                                              1
## # i 3,140 more rows
numRows <- nrow(alexa)</pre>
numCols <- ncol(alexa)</pre>
cat("Number of observations:",numRows, "\n")
## Number of observations: 3150
cat("Number of columns:", numRows, "\n")
## Number of columns: 3150
library(dplyr)
variations <- alexa %>%
  group_by(variation) %>%
  summarise(total_count = n())
variations
## # A tibble: 16 x 2
##
     variation
                                 total_count
     <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
## 7 Configuration: Fire TV Stick
## 8 Heather Gray Fabric
                                        157
## 9 Oak Finish
                                         14
## 10 Sandstone Fabric
                                         90
## 11 Walnut Finish
                                          9
## 12 White
                                         91
## 13 White Dot
                                         184
## 14 White Plus
                                         78
## 15 White Show
                                         85
## 16 White Spot
                                        109
```

```
#c

PLOT_Variation <- ggplot(variations, aes(x = variation, y = total_count)) +
    geom_bar(stat = "identity") +
    xlab("Variations") +
    ylab("Total Count") +
    ggtitle("Total Count of Each Variation")</pre>
PLOT_Variation
```

Total Count of Each Variation

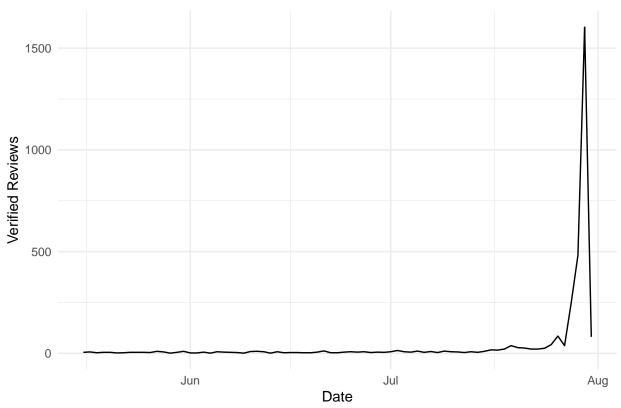


```
#d

VerifiedViews <- alexa %>%
    group_by(date) %>%
    summarise(count = n()) %>%
    arrange(date)

Plot_Verified <- ggplot(VerifiedViews, aes(x = date, y = count)) +
    geom_line(color = "black") +
    labs(title = "Verified Reviews Over Time", x = "Date", y = "Verified Reviews") +
    theme_minimal()</pre>
Plot_Verified
```





```
## # A tibble: 16 x 2
##
     variation
                                  avg_rating
##
      <chr>
                                       <dbl>
## 1 Walnut Finish
                                        4.89
## 2 Oak Finish
                                        4.86
## 3 Charcoal Fabric
                                        4.73
## 4 Heather Gray Fabric
                                        4.69
## 5 Configuration: Fire TV Stick
                                        4.59
## 6 Black Show
                                        4.49
## 7 Black Dot
                                        4.45
                                        4.42
## 8 White Dot
## 9 Black Plus
                                        4.37
## 10 White Plus
                                        4.36
```

```
## 11 Sandstone Fabric 4.36
## 12 White Spot 4.31
## 13 Black Spot 4.31
## 14 White Show 4.28
## 15 Black 4.23
## 16 White 4.14
```

```
ggplot(Variation_R, aes(x = reorder(variation, avg_rating), y = avg_rating, fill = variation)) +
  geom_bar(stat = "identity") + labs(title = "Average Ratings by Variation", x = "Variation", y = "Aver
```

