RWorksheet_Porras#4C

Porras, Christian BSIT 2-C

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1.A Solutions on how to import a csv file into the environment.

```
mpgdata <- read.csv("mpg.csv")</pre>
mpgdata
##
          X manufacturer
                                               model displ year cyl
                                                                             trans drv cty
## 1
          1
                     audi
                                                  a4
                                                        1.8
                                                            1999
                                                                         auto(15)
                                                                                      f
                                                                                         18
##
   2
          2
                                                                                      f
                                                                                         21
                     audi
                                                  a4
                                                        1.8 1999
                                                                      manual(m5)
##
  3
          3
                     audi
                                                  a4
                                                        2.0 2008
                                                                       manual(m6)
                                                                                         20
##
          4
                                                        2.0 2008
                                                                                         21
   4
                     audi
                                                  a4
                                                                         auto(av)
                                                                                      f
##
   5
          5
                     audi
                                                        2.8 1999
                                                                         auto(15)
                                                                                      f
                                                                                         16
                                                  a4
                                                                     6
                                                        2.8 1999
## 6
          6
                                                  a4
                                                                                         18
                     audi
                                                                     6 manual(m5)
                                                                                      f
## 7
          7
                                                  a4
                                                        3.1 2008
                                                                         auto(av)
                                                                                      f
                                                                                         18
                     audi
## 8
          8
                     audi
                                         a4 quattro
                                                        1.8 1999
                                                                     4 manual(m5)
                                                                                      4
                                                                                         18
## 9
          9
                                         a4 quattro
                                                        1.8 1999
                                                                         auto(15)
                                                                                      4
                                                                                         16
                     audi
## 10
         10
                                                                                         20
                     audi
                                         a4 quattro
                                                        2.0 2008
                                                                     4 manual(m6)
##
   11
                                                                                         19
         11
                     audi
                                         a4 quattro
                                                        2.0 2008
                                                                         auto(s6)
                                                                                      4
##
   12
                                         a4 quattro
                                                        2.8 1999
                                                                                      4
                                                                                         15
         12
                     audi
                                                                     6
                                                                         auto(15)
##
   13
         13
                     audi
                                         a4 quattro
                                                        2.8 1999
                                                                     6 manual(m5)
                                                                                      4
                                                                                         17
##
  14
                                         a4 quattro
                                                        3.1 2008
                                                                                      4
                                                                                         17
         14
                     audi
                                                                     6
                                                                         auto(s6)
## 15
         15
                     audi
                                         a4 quattro
                                                        3.1 2008
                                                                     6
                                                                      manual(m6)
                                                                                      4
                                                                                         15
## 16
                                                        2.8 1999
                                                                                      4
                                                                                         15
         16
                     audi
                                         a6 quattro
                                                                     6
                                                                         auto(15)
##
   17
         17
                     audi
                                                        3.1 2008
                                                                     6
                                                                         auto(s6)
                                                                                      4
                                                                                         17
                                         a6 quattro
##
   18
         18
                     audi
                                         a6 quattro
                                                        4.2 2008
                                                                         auto(s6)
                                                                                         16
##
   19
         19
                chevrolet
                                c1500 suburban 2wd
                                                        5.3 2008
                                                                     8
                                                                         auto(14)
                                                                                         14
                                                                                      r
   20
##
         20
                chevrolet
                                c1500 suburban 2wd
                                                        5.3 2008
                                                                     8
                                                                         auto(14)
                                                                                         11
                                                                                      r
##
   21
                                                        5.3 2008
         21
                chevrolet
                                c1500 suburban 2wd
                                                                     8
                                                                         auto(14)
                                                                                         14
                                                                                      r
## 22
         22
                chevrolet
                                c1500 suburban 2wd
                                                        5.7 1999
                                                                         auto(14)
                                                                                         13
                                c1500 suburban 2wd
## 23
                                                                         auto(14)
                                                                                         12
         23
                chevrolet
                                                        6.0 2008
                                                                     8
                                                                                      r
##
   24
         24
                chevrolet
                                           corvette
                                                        5.7 1999
                                                                       manual(m6)
                                                                                      r
                                                                                         16
##
   25
         25
                chevrolet
                                                        5.7 1999
                                                                     8
                                                                                         15
                                                                         auto(14)
                                           corvette
                                                                                      r
##
   26
                chevrolet
                                                        6.2 2008
                                                                     8 manual(m6)
                                                                                         16
         26
                                           corvette
                                                                                      r
##
   27
                                                        6.2 2008
                                                                                         15
         27
                chevrolet
                                                                         auto(s6)
                                           corvette
                                                                     8
                                                                                      r
##
   28
                chevrolet
                                                        7.0 2008
         28
                                           corvette
                                                                     8 manual(m6)
                                                                                      r
                                                                                         15
##
   29
         29
                chevrolet
                                   k1500 tahoe 4wd
                                                        5.3 2008
                                                                     8
                                                                         auto(14)
                                                                                      4
                                                                                         14
##
   30
         30
                chevrolet
                                   k1500 tahoe 4wd
                                                        5.3 2008
                                                                     8
                                                                         auto(14)
                                                                                      4
                                                                                         11
  31
                                                                                      4
##
         31
                                   k1500 tahoe 4wd
                                                        5.7 1999
                chevrolet
                                                                     8
                                                                         auto(14)
                                                                                         11
   32
                                                                                      4
                                                                                         14
##
         32
                chevrolet
                                   k1500 tahoe 4wd
                                                        6.5 1999
                                                                     8
                                                                         auto(14)
                                                                                         19
##
   33
         33
                                                        2.4 1999
                                                                                      f
                chevrolet
                                             malibu
                                                                         auto(14)
##
   34
         34
                chevrolet
                                             malibu
                                                        2.4 2008
                                                                     4
                                                                         auto(14)
                                                                                      f
                                                                                         22
##
   35
         35
                chevrolet
                                             malibu
                                                        3.1 1999
                                                                     6
                                                                         auto(14)
                                                                                      f
                                                                                         18
##
   36
         36
                                                        3.5 2008
                                                                                      f
                                                                                         18
                chevrolet
                                                                     6
                                                                         auto(14)
                                              malibu
## 37
         37
                chevrolet
                                              malibu
                                                        3.6 2008
                                                                         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			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	ang	3.8	1999	6	manual(m5)	r	18

```
## 92
         92
                     ford
                                                        3.8 1999
                                                                    6
                                                                         auto(14)
                                                                                        18
                                            mustang
                                                                                     r
##
   93
         93
                     ford
                                                                    6 manual(m5)
                                                                                        17
                                                        4.0 2008
                                                                                     r
                                            mustang
##
   94
         94
                     ford
                                            mustang
                                                       4.0 2008
                                                                         auto(15)
                                                                                         16
##
   95
         95
                     ford
                                                       4.6
                                                            1999
                                                                         auto(14)
                                                                                        15
                                            mustang
                                                                    8
                                                                                     r
##
   96
         96
                     ford
                                            mustang
                                                       4.6
                                                            1999
                                                                    8
                                                                      manual(m5)
                                                                                     r
                                                                                        15
   97
         97
                     ford
                                                                                        15
##
                                            mustang
                                                       4.6 2008
                                                                      manual(m5)
                                                                                     r
##
   98
         98
                     ford
                                            mustang
                                                       4.6 2008
                                                                    8
                                                                         auto(15)
                                                                                     r
                                                                                        15
## 99
         99
                     ford
                                            mustang
                                                       5.4 2008
                                                                    8
                                                                      manual(m6)
                                                                                     r
                                                                                        14
   100 100
                    honda
                                              civic
                                                        1.6
                                                            1999
                                                                      manual(m5)
                                                                                     f
                                                                                         28
                                                                                        24
##
   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
                                                                                        25
##
                                              civic
                                                       1.8
                                                                    4
                                                                         auto(15)
##
   107 107
                    honda
                                                        1.8
                                                            2008
                                                                    4
                                                                         auto(15)
                                                                                     f
                                                                                        24
                                              civic
                                                                                        21
##
   108 108
                    honda
                                                       2.0 2008
                                                                      manual(m6)
                                                                                     f
                                              civic
   109 109
                  hyundai
                                                       2.4
                                                            1999
                                                                                         18
                                             sonata
                                                                         auto(14)
                  hyundai
  110 110
                                                       2.4 1999
                                                                                        18
##
                                                                      manual(m5)
                                                                                     f
                                             sonata
                                                                    4
   111 111
                  hyundai
                                             sonata
                                                       2.4 2008
                                                                         auto(14)
                                                                                     f
                                                                                        21
##
  112 112
                  hyundai
                                             sonata
                                                       2.4 2008
                                                                      manual(m5)
                                                                                     f
                                                                                        21
## 113 113
                  hyundai
                                                       2.5 1999
                                                                                     f
                                                                                         18
                                             sonata
                                                                         auto(14)
## 114 114
                  hyundai
                                                       2.5 1999
                                                                                     f
                                                                                        18
                                                                    6 manual(m5)
                                             sonata
## 115 115
                  hyundai
                                                       3.3 2008
                                                                                     f
                                                                                        19
                                             sonata
                                                                         auto(15)
                                                                                        19
## 116 116
                  hyundai
                                            tiburon
                                                       2.0 1999
                                                                         auto(14)
                                                                                     f
  117 117
                  hyundai
                                            tiburon
                                                       2.0
                                                            1999
                                                                      manual(m5)
                                                                                     f
                                                                                        19
##
  118 118
                  hyundai
                                                       2.0
                                                            2008
                                                                      manual(m5)
                                                                                     f
                                                                                        20
                                            tiburon
                                                                                        20
   119
       119
                  hyundai
                                            tiburon
                                                       2.0
                                                            2008
                                                                         auto(14)
                                                                                     f
## 120 120
                  hyundai
                                                            2008
                                                                    6
                                                                                     f
                                                                                        17
                                            tiburon
                                                       2.7
                                                                         auto(14)
## 121 121
                  hyundai
                                            tiburon
                                                       2.7
                                                            2008
                                                                    6
                                                                      manual(m6)
                                                                                     f
                                                                                        16
## 122 122
                  hyundai
                                            tiburon
                                                       2.7
                                                            2008
                                                                    6
                                                                      manual(m5)
                                                                                     f
                                                                                        17
##
   123 123
                                grand cherokee 4wd
                                                        3.0
                                                            2008
                                                                    6
                                                                         auto(15)
                                                                                     4
                                                                                        17
                     jeep
                                                                                        15
   124 124
                                grand cherokee
                                                        3.7
                                                            2008
                                                                         auto(15)
                     jeep
   125 125
                                                                                        15
##
                                grand cherokee 4wd
                                                        4.0
                                                            1999
                                                                    6
                                                                         auto(14)
                                                                                     4
                     jeep
   126
       126
                                grand cherokee 4wd
                                                        4.7
                                                            1999
                                                                    8
                                                                         auto(14)
                                                                                     4
                                                                                         14
                     jeep
##
  127 127
                                                                                     4
                                                                                         9
                     jeep
                                grand cherokee 4wd
                                                       4.7
                                                            2008
                                                                    8
                                                                         auto(15)
## 128 128
                     jeep
                                grand cherokee 4wd
                                                        4.7
                                                            2008
                                                                    8
                                                                         auto(15)
                                                                                     4
                                                                                         14
## 129 129
                                grand cherokee 4wd
                                                       5.7 2008
                                                                    8
                                                                         auto(15)
                                                                                     4
                                                                                        13
                     jeep
## 130 130
                                                       6.1 2008
                                                                    8
                                                                         auto(15)
                                                                                     4
                                                                                        11
                     jeep
                                grand cherokee 4wd
  131 131
##
                                                                    8
                                                                                        11
              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
                                                                    8
                                                                         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)
                                                                                        11
                                                                                     r
                                                                                        12
## 137 137
                                                       5.4
                                                            2008
                                                                    8
                  lincoln
                                     navigator
                                                2wd
                                                                         auto(16)
                                                                                     r
##
   138 138
                  mercury
                                   mountaineer 4wd
                                                        4.0
                                                            1999
                                                                    6
                                                                         auto(15)
                                                                                        14
                                                                                        13
##
   139 139
                  mercury
                                   mountaineer 4wd
                                                        4.0
                                                            2008
                                                                    6
                                                                         auto(15)
                                                       4.6
   140 140
                                   mountaineer 4wd
                                                            2008
                                                                    8
                                                                         auto(16)
                                                                                     4
                                                                                        13
                  mercury
##
   141 141
                  mercury
                                   mountaineer 4wd
                                                       5.0
                                                            1999
                                                                    8
                                                                         auto(14)
                                                                                     4
                                                                                        13
##
                                                                                     f
                                                                                        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			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		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	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
                                                      2.0 1999
                                                                       auto(14)
                                                                                    f
## 210 210
              volkswagen
                                               gti
                                                      2.0 2008
                                                                     manual(m6)
                                                                                    f
                                                                                       21
                                                                                       22
## 211 211
                                                      2.0 2008
                                                                                    f
              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
                                                                                   f
                                                                                       21
              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
             p
                       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
             p
## 233
        26
             p
                  midsize
## 234
        26
                  midsize
```

1.B variables from mpg dataset are categorical?

```
str(mpgdata)
## 'data.frame':
                   234 obs. of 12 variables:
## $ X
         : int 12345678910...
## $ manufacturer: chr "audi" "audi" "audi" "audi" ...
## $ model : chr "a4" "a4" "a4" "a4" ...
## $ displ
                : num 1.8 1.8 2 2 2.8 2.8 3.1 1.8 1.8 2 ...
## $ year
                : int 1999 1999 2008 2008 1999 1999 2008 1999 1999 2008 ...
                 : int 4444666444 ...
## $ cyl
## $ trans
                 : chr "auto(15)" "manual(m5)" "manual(m6)" "auto(av)" ...
## $ drv
                 : chr "f" "f" "f" "f" ...
                 : int 18 21 20 21 16 18 18 18 16 20 ...
## $ cty
## $ hwy
                 : int 29 29 31 30 26 26 27 26 25 28 ...
                : chr "p" "p" "p" "p" ...
## $ fl
## $ class
                 : chr "compact" "compact" "compact" ...
str
## function (object, ...)
## UseMethod("str")
## <bytecode: 0x558ae170e4c0>
## <environment: namespace:utils>
1.C Which are continuous variables?
#displ: Engine displacement in liters.
#hwy: Highway miles per gallon.
#cty: City miles per gallon.
  2. Which manufacturer has the most models in this data set? Which model has the most variations? Show
    your answer
library(ggplot2)
mostmod <- table(mpg$manufacturer)</pre>
maxmod <- names(which.max(mostmod))</pre>
cat("Manufacturer with the most models:", maxmod, "\n")
## Manufacturer with the most models: dodge
#finding most variations
maxdata <- subset(mpg, manufacturer==maxmod)</pre>
modcounts <- table(maxdata$model)</pre>
variation_model <- names(which.max(modcounts))</pre>
cat("Model with the most variations:",variation_model, "\n")
## Model with the most variations: caravan 2wd
A. Group the manufacturers and find the unique models. Show your codes and result.
library(ggplot2)
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
##
unimode <- mpg%>%
  group_by(manufacturer)%>%
  summarize(uniquemodel = n_distinct(model))
print(unimode)
## # A tibble: 15 x 2
      manufacturer uniquemodel
##
      <chr>
                         <int>
## 1 audi
## 2 chevrolet
                             4
## 3 dodge
## 4 ford
                             4
## 5 honda
                             1
## 6 hyundai
                             2
## 7 jeep
                             1
## 8 land rover
                             1
## 9 lincoln
                             1
## 10 mercury
                             1
## 11 nissan
                             3
## 12 pontiac
                             1
                             2
## 13 subaru
                              6
## 14 toyota
## 15 volkswagen
                              4
B. Graph the result by using plot() and ggplot(). Write the codes and its result.
#qqplot
library(ggplot2)
ggplot(unimode, aes(x=manufacturer,y = uniquemodel))+
```

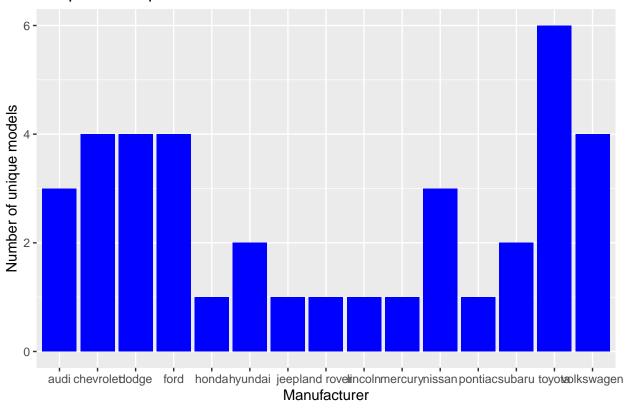
geom_bar(stat = "Identity",fill = "blue")+
labs(title = "Unique model per manufacturer",

y = "Number of unique models")+

x = "Manufacturer",

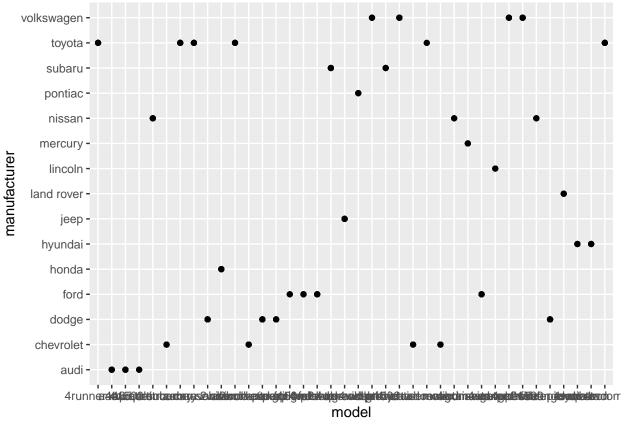
theme_gray()

Unique model per manufacturer



2. Same dataset will be used. You are going to show the relationship of the modeland the manufacturer A.What does ggplot(mpg, aes(model, manufacturer)) + geom_point() show?

```
library(ggplot2)
ggplot(mpg, aes(model, manufacturer)) + geom_point()
```



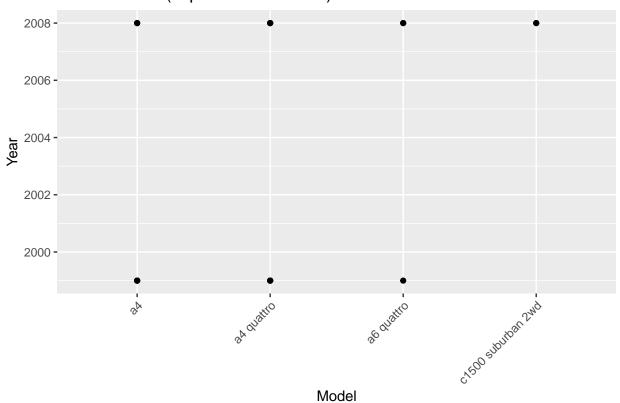
gplot(mpg, aes(model, manufacturer)) + geom_point() shows the points where model and manufacturer.

B. For you, is it useful? If not, how could you modify the data to make it more informative?

```
#yes it is
```

3. Plot the model and the year using ggplot(). Use only the top 20 observations. Write the codes and its results.

Model vs Year(Top 20 observations)



4. Using the pipe (%>%), group the model and get the number of cars per model. Show codes and its result

```
library(dplyr)
group_model <- mpg%>%
    group_by(manufacturer)

print(group_model)
```

```
## # A tibble: 234 x 11
##
   # Groups:
                 manufacturer [15]
##
      manufacturer model
                                 displ year
                                                 cyl trans drv
                                                                      cty
                                                                            hwy fl
                                                                                        class
##
                                 <dbl> <int> <int> <chr> <int> <int> <int> <chr> <int> <int> <int> <chr>
      <chr>
                     <chr>>
##
    1 audi
                                    1.8
                                         1999
                                                                       18
                     a4
                                                    4 auto~ f
                                                                             29 p
                                                                                        comp~
                                    1.8
                                                                             29 p
##
    2 audi
                                         1999
                                                    4 manu~ f
                                                                       21
                     a4
                                                                                        comp~
                                    2
                                         2008
                                                                       20
                                                                             31 p
##
    3 audi
                     a4
                                                    4 manu~ f
                                                                                        comp~
##
                                    2
                                         2008
                                                                       21
                                                                             30 p
    4 audi
                     a4
                                                    4 auto~ f
                                                                                        comp~
                     a4
                                    2.8
                                         1999
                                                                       16
                                                                             26 p
##
    5 audi
                                                   6 auto~ f
                                                                                        comp~
##
                                    2.8
                                         1999
                                                                       18
                                                                             26 p
    6 audi
                     a4
                                                    6 manu~ f
                                                                                        comp~
                                                                             27 p
##
    7 audi
                                    3.1
                                         2008
                                                    6 auto~ f
                                                                       18
                     a4
                                                                                        comp~
                                                                       18
##
    8 audi
                     a4 quattro
                                    1.8
                                         1999
                                                    4 manu~ 4
                                                                             26 p
                                                                                        comp~
                                    1.8
                                                                             25 p
##
    9 audi
                     a4 quattro
                                         1999
                                                    4 auto~ 4
                                                                       16
                                                                                        comp~
                                                                             28 p
## 10 audi
                     a4 quattro
                                    2
                                         2008
                                                    4 manu~ 4
                                                                       20
                                                                                        comp~
## # i 224 more rows
```

A. Plot using geom_bar() using the top 20 observations only. The graphs should have a title, labels and colors. Show code and results.

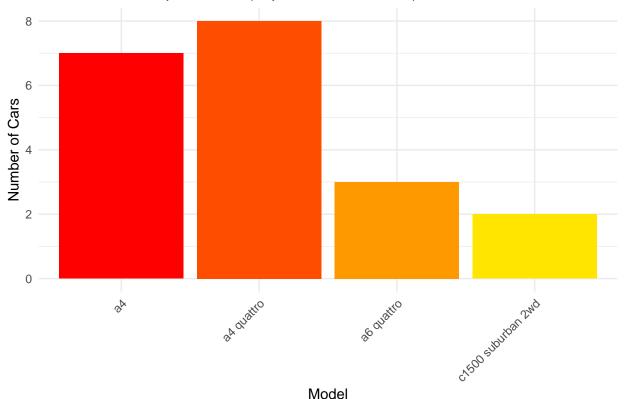
```
library(dplyr)
library(ggplot2)
```

data(mpgdata) ## Warning in data(mpgdata): data set 'mpgdata' not found top_observe <- head(mpg,20) ggplot(top_observe, aes(x = model, fill = model)) + geom_bar() + labs(title = "Number of Cars per Model (Top 20 Observations)", x = "Model", y = "Number of Cars") + theme minimal() +</pre>

theme(axis.text.x = element_text(angle = 45, hjust = 1), legend.position = "none") +

Number of Cars per Model (Top 20 Observations)

scale_fill_manual(values = rainbow(nrow(top_observe)))



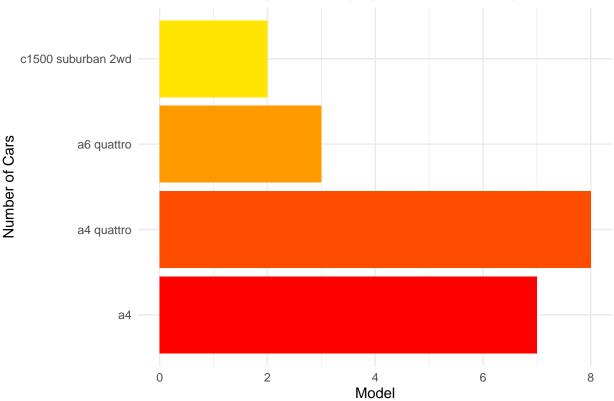
B. Plot using the geom_bar() + coord_flip() just like what is shown below. Show codes and its result.

```
library(dplyr)
library(ggplot2)
data(mpgdata)
```

```
## Warning in data(mpgdata): data set 'mpgdata' not found
top_observe <- head(mpg,20)

ggplot(top_observe, aes(x = model, fill = model)) +
    geom_bar() +</pre>
```

Number of Cars per Model (Top 20 Observations)



5. Plot the relationship between cyl - number of cylinders and displ - engine displacement using geom_point with aesthetic color = engine displacement. Title should be "Relationship between No. of Cylinders and Engine Displacement".

```
library(ggplot2)

data(mpgdata)

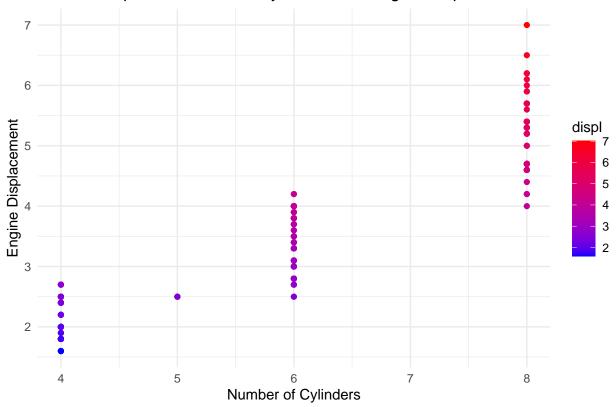
## Warning in data(mpgdata): data set 'mpgdata' not found

ggplot(mpg, 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") +
    scale_color_continuous(name = "Engine Displacement") +
    scale_color_gradient(low="blue",high="red") +
    theme_minimal()
```

Scale for colour is already present.

Adding another scale for colour, which will replace the existing scale.

Relationship between No. of Cylinders and Engine Displacement



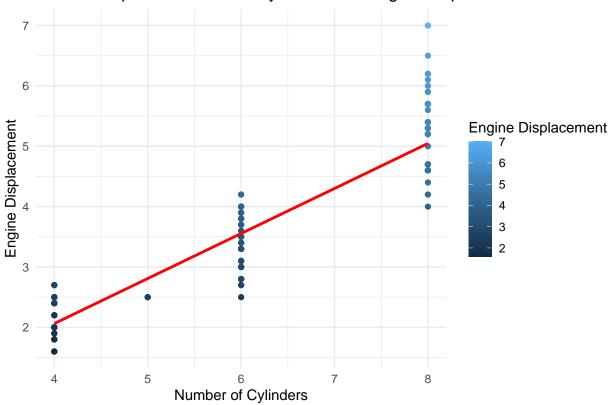
A. How would you describe its relationship? Show the codes and its result.

```
relation_cyldispl <- cor(mpg$cyl , mpg$displ)
cat("Correlation Coefficient:", relation_cyldispl, "\n")</pre>
```

Correlation Coefficient: 0.9302271

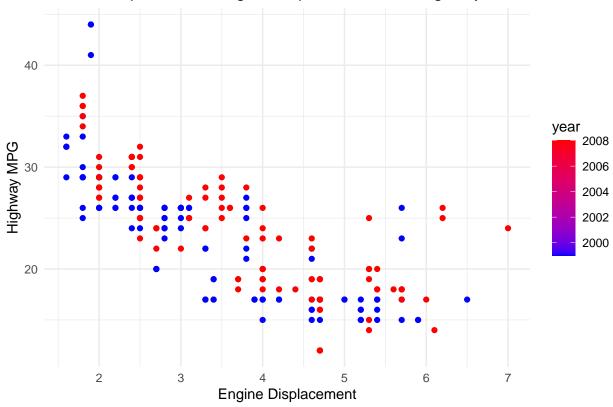
`geom_smooth()` using formula = 'y ~ x'

Relationship between No. of Cylinders and Engine Displacement



B. Plot the relationship between displ (engine displacement) and hwy(highway miles per gallon). Mapped it with a continuous variable you have identified in #1-c. What is its result? Why it produced such output?

Relationship between Engine Displacement and Highway MPG



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

A. How many numbers of observation does it have? What are the variables of the traffic dataset the Show your answer.

```
trafficdata <- read.csv("traffic.csv")</pre>
observation_count <- nrow(trafficdata)</pre>
var_traffic <- ncol(trafficdata)</pre>
names <- names(trafficdata)</pre>
cat("Number of Observations:", observation_count, "\n")
## Number of Observations: 48120
cat("Number of Variables:", var_traffic, "\n")
## Number of Variables: 4
cat("Variables:", paste(names, collapse = ", "), "\n")
## Variables: DateTime, Junction, Vehicles, ID
B. subset the traffic data set into junctions. What is the R codes and its output?
junction \leftarrow c(1,2,3,4)
junction <- trafficdata[trafficdata$Junction %in% junction, ]</pre>
junction
##
                     DateTime Junction Vehicles
                                                             ID
         2015-11-01 00:00:00
## 1
                                                15 20151101001
```

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##	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		1	9	
##	8	2015-11-01		1	-	20151101001
##	9	2015-11-01		1	11	
##	10	2015-11-01		1		20151101091
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##	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		1	12	20151101161
##	18	2015-11-01		1		20151101171
##	19	2015-11-01		1	17	
##	20	2015-11-01		1		20151101191
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##	23	2015-11-01		1	20	20151101221
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##	40	2015-11-02	15:00:00	1	30	20151102151
##	41	2015-11-02	16:00:00	1	27	20151102161
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	44	2015-11-02		1	26	20151102191
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##	24819	2016-12-31	02:00:00	2	12	20161231022
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##	24821	2016-12-31	04:00:00	2	8	20161231042
##	24822	2016-12-31	05:00:00	2	7	20161231052
##	24823	2016-12-31	06:00:00	2	8	20161231062
##	24824	2016-12-31	07:00:00	2	7	20161231072
##	24825	2016-12-31	08:00:00	2	5	20161231082
##		2016-12-31		2		20161231092
		2016-12-31		2		20161231102
##		2016-12-31		2		20161231112
##		2016-12-31		2		20161231122
##		2016-12-31		2		20161231122
		2016-12-31		2		20161231132
		2016-12-31		2		20161231152
		2016-12-31		2		20161231162
		2016-12-31		2		20161231172
		2016-12-31		2		20161231182
##		2016-12-31		2		20161231192
		2016-12-31		2		20161231202
##	24838	2016-12-31	21:00:00	2	12	20161231212
##	24839	2016-12-31	22:00:00	2	10	20161231222
##	24840	2016-12-31	23:00:00	2	9	20161231232
##	24841	2017-01-01	00:00:00	2	7	20170101002

```
## 24842 2017-01-01 01:00:00
                                              9 20170101012
## 24843 2017-01-01 02:00:00
                                     2
                                              4 20170101022
## 24844 2017-01-01 03:00:00
                                              4 20170101032
## 24845 2017-01-01 04:00:00
                                     2
                                              6 20170101042
## 24846 2017-01-01 05:00:00
                                     2
                                              2 20170101052
## 24847 2017-01-01 06:00:00
                                     2
                                              5 20170101062
## 24848 2017-01-01 07:00:00
                                     2
                                              3 20170101072
## 24849 2017-01-01 08:00:00
                                     2
                                              7 20170101082
## 24850 2017-01-01 09:00:00
                                     2
                                              8 20170101092
                                     2
## 24851 2017-01-01 10:00:00
                                              4 20170101102
## 24852 2017-01-01 11:00:00
                                     2
                                              8 20170101112
                                     2
## 24853 2017-01-01 12:00:00
                                              6 20170101122
                                     2
## 24854 2017-01-01 13:00:00
                                              6 20170101132
                                     2
## 24855 2017-01-01 14:00:00
                                              7 20170101142
## 24856 2017-01-01 15:00:00
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                                              7 20170101152
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## 24857 2017-01-01 16:00:00
                                              8 20170101162
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## 24858 2017-01-01 17:00:00
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                                     2
## 24859 2017-01-01 18:00:00
                                              9 20170101182
## 24860 2017-01-01 19:00:00
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                                              7 20170101192
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## 24861 2017-01-01 20:00:00
                                             11 20170101202
## 24862 2017-01-01 21:00:00
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                                             11 20170101212
## 24863 2017-01-01 22:00:00
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                                              9 20170101222
## 24864 2017-01-01 23:00:00
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                                              9 20170101232
## 24865 2017-01-02 00:00:00
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                                              8 20170102002
                                     2
## 24866 2017-01-02 01:00:00
                                              9 20170102012
## 24867 2017-01-02 02:00:00
                                     2
                                              8 20170102022
## 24868 2017-01-02 03:00:00
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                                              9 20170102032
                                     2
## 24869 2017-01-02 04:00:00
                                              7 20170102042
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## 24870 2017-01-02 05:00:00
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## 24871 2017-01-02 06:00:00
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## 24872 2017-01-02 07:00:00
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## 24873 2017-01-02 08:00:00
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                                             10 20170102082
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## 24874 2017-01-02 09:00:00
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## 24875 2017-01-02 10:00:00
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## 24876 2017-01-02 11:00:00
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## 24877 2017-01-02 12:00:00
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                                             16 20170102122
## 24878 2017-01-02 13:00:00
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## 24879 2017-01-02 14:00:00
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## 24880 2017-01-02 15:00:00
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## 24881 2017-01-02 16:00:00
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## 24882 2017-01-02 17:00:00
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## 24883 2017-01-02 18:00:00
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## 24884 2017-01-02 19:00:00
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## 24885 2017-01-02 20:00:00
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## 24886 2017-01-02 21:00:00
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## 24887 2017-01-02 22:00:00
                                             11 20170102222
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## 24888 2017-01-02 23:00:00
                                             14 20170102232
                                     2
## 24889 2017-01-03 00:00:00
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                                             10 20170103012
## 24890 2017-01-03 01:00:00
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## 24891 2017-01-03 02:00:00
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                                     2
## 24893 2017-01-03 04:00:00
                                              7 20170103042
## 24894 2017-01-03 05:00:00
                                     2
                                              8 20170103052
                                     2
## 24895 2017-01-03 06:00:00
                                              8 20170103062
```

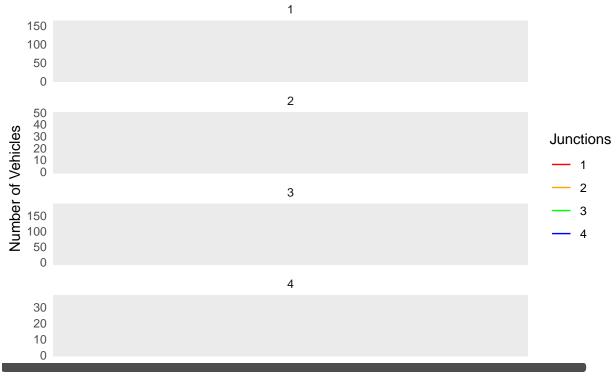
```
## 24896 2017-01-03 07:00:00
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## 24897 2017-01-03 08:00:00
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                                             11 20170103082
## 24898 2017-01-03 09:00:00
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## 24899 2017-01-03 10:00:00
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## 24900 2017-01-03 11:00:00
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                                             16 20170103112
## 24901 2017-01-03 12:00:00
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                                             16 20170103122
## 24902 2017-01-03 13:00:00
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## 24903 2017-01-03 14:00:00
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## 24904 2017-01-03 15:00:00
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## 24905 2017-01-03 16:00:00
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## 24906 2017-01-03 17:00:00
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## 24907 2017-01-03 18:00:00
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## 24908 2017-01-03 19:00:00
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## 24910 2017-01-03 21:00:00
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## 24911 2017-01-03 22:00:00
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## 24912 2017-01-03 23:00:00
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## 24913 2017-01-04 00:00:00
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## 24914 2017-01-04 01:00:00
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## 24919 2017-01-04 06:00:00
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## 24927 2017-01-04 14:00:00
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## 24930 2017-01-04 17:00:00
                                             17 20170104172
## 24931 2017-01-04 18:00:00
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                                             21 20170104182
## 24932 2017-01-04 19:00:00
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                                             19 20170104192
## 24933 2017-01-04 20:00:00
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## 24934 2017-01-04 21:00:00
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                                             18 20170104212
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## 24935 2017-01-04 22:00:00
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## 24936 2017-01-04 23:00:00
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## 24937 2017-01-05 00:00:00
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## 24939 2017-01-05 02:00:00
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## 24944 2017-01-05 07:00:00
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## 24945 2017-01-05 08:00:00
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## 24947 2017-01-05 10:00:00
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## 24948 2017-01-05 11:00:00
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                                             13 20170105112
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## 24949 2017-01-05 12:00:00
                                             15 20170105122
```

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## 24950 2017-01-05 13:00:00
                                             18 20170105132
## 24951 2017-01-05 14:00:00
                                     2
                                             16 20170105142
## 24952 2017-01-05 15:00:00
                                             18 20170105152
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## 24953 2017-01-05 16:00:00
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                                     2
## 24954 2017-01-05 17:00:00
                                             16 20170105172
## 24955 2017-01-05 18:00:00
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                                             20 20170105182
## 24956 2017-01-05 19:00:00
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                                             18 20170105192
## 24957 2017-01-05 20:00:00
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                                             24 20170105202
## 24958 2017-01-05 21:00:00
                                     2
                                             21 20170105212
                                     2
## 24959 2017-01-05 22:00:00
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## 24960 2017-01-05 23:00:00
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                                             18 20170105232
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## 24961 2017-01-06 00:00:00
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## 24962 2017-01-06 01:00:00
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## 24963 2017-01-06 02:00:00
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## 24965 2017-01-06 04:00:00
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## 24966 2017-01-06 05:00:00
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## 24967 2017-01-06 06:00:00
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## 24970 2017-01-06 09:00:00
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## 24971 2017-01-06 10:00:00
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## 24972 2017-01-06 11:00:00
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## 24973 2017-01-06 12:00:00
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                                     2
## 24974 2017-01-06 13:00:00
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## 24975 2017-01-06 14:00:00
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## 24976 2017-01-06 15:00:00
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                                             17 20170106152
## 24977 2017-01-06 16:00:00
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                                     2
## 24978 2017-01-06 17:00:00
                                             22 20170106172
                                     2
## 24979 2017-01-06 18:00:00
                                             20 20170106182
                                     2
## 24980 2017-01-06 19:00:00
                                             20 20170106192
## 24981 2017-01-06 20:00:00
                                     2
                                             19 20170106202
                                     2
## 24982 2017-01-06 21:00:00
                                             18 20170106212
## 24983 2017-01-06 22:00:00
                                     2
                                             19 20170106222
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## 24984 2017-01-06 23:00:00
                                             21 20170106232
                                     2
## 24985 2017-01-07 00:00:00
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## 24986 2017-01-07 01:00:00
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                                             14 20170107012
## 24987 2017-01-07 02:00:00
                                     2
                                             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
                                     2
## 24992 2017-01-07 07:00:00
                                              8 20170107072
                                     2
## 24993 2017-01-07 08:00:00
                                             10 20170107082
                                     2
## 24994 2017-01-07 09:00:00
                                              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
## 24998 2017-01-07 13:00:00
                                     2
                                             11 20170107132
                                     2
## 24999 2017-01-07 14:00:00
                                             13 20170107142
    [ reached 'max' / getOption("max.print") -- omitted 23121 rows ]
```

C. Plot each junction in a using geom_line(). Show your solution and output.

```
## `geom_line()`: Each group consists of only one observation.
## i Do you need to adjust the group aesthetic?
## `geom_line()`: Each group consists of only one observation.
## i Do you need to adjust the group aesthetic?
## `geom_line()`: Each group consists of only one observation.
## i Do you need to adjust the group aesthetic?
## `geom_line()`: Each group consists of only one observation.
## i Do you need to adjust the group aesthetic?
```

Traffic by Junction



Date Time

7. From alexa file.xlsx, import it to your environment

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

```
## # A tibble: 3,150 x 5
##
                                                     verified reviews
                                                                           feedback
     rating date
                                 variation
                                                                              <dbl>
##
       <dbl> <dttm>
                                 <chr>
                                                     <chr>
           5 2018-07-31 00:00:00 Charcoal Fabric
##
                                                     Love my Echo!
                                                                                   1
   1
##
           5 2018-07-31 00:00:00 Charcoal Fabric
                                                     Loved it!
                                                                                   1
##
           4 2018-07-31 00:00:00 Walnut Finish
                                                                                   1
                                                     Sometimes while play~
           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
## 5
                                                     Music
                                                                                   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
           5 2018-07-31 00:00:00 Charcoal Fabric
                                                     I think this is the ~
                                                                                  1
           5 2018-07-30 00:00:00 Heather Gray Fabric looks great
## 9
                                                                                   1
           5 2018-07-30 00:00:00 Heather Gray Fabric Love it! I've listen~
## 10
                                                                                   1
## # i 3,140 more rows
```

A. How many observations does alexa file has? What about the number of columns? Show your solution and answer.

```
observation_num <- nrow(alexafile)

column_number <- ncol(alexafile)

cat("The number of observations on alexa is:",observation_num,"\n")</pre>
```

```
## The number of observations on alexa is: 3150
cat("The number of coloumns on alexa is:",column_number,"\n")
```

The number of coloumns on alexa is: 5

B.group the variations and get the total of each variations. Use dplyr package. Show solution and answer.

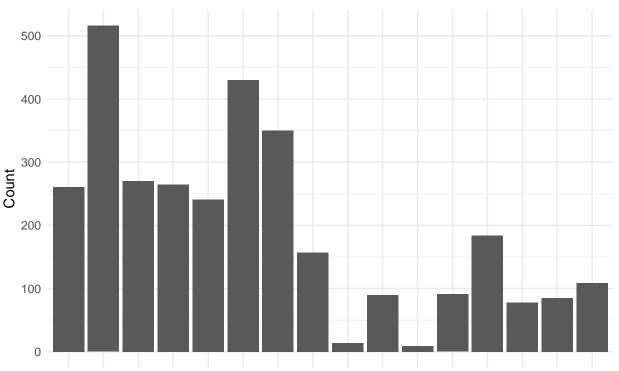
```
library(dplyr)
groupvar <- alexafile%>%
  group_by(variation)%>%
  summarise(totalcount_ = n())
groupvar
```

```
## # A tibble: 16 x 2
##
     variation
                                   totalcount
      <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
## 7 Configuration: Fire TV Stick
                                           350
  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 the variations using the ggplot() function. What did you observe? Complete the details of the graph. Show solution and answer.

Distribution of Variations



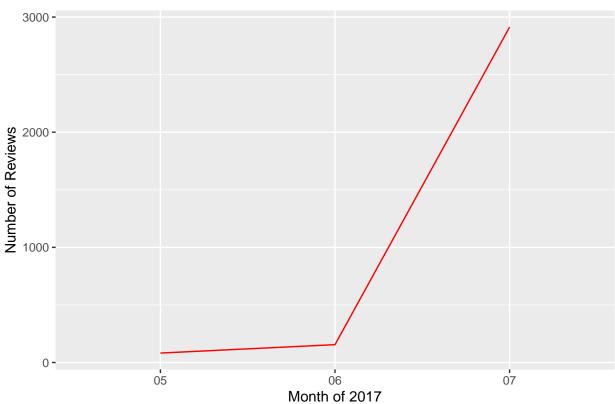
Black Black

D. Plot a geom_line() with the date and the number of verified reviews. Complete the details of the graphs. Show your answer and solution.

```
alexafile$date <- as.Date(alexafile$date)
alexafile$month <- format(alexafile$date, "%m")
monthscount <- alexafile %>%
  group_by(month) %>%
  summarise(num_reviews = n())

monthlyreview <- table(monthscount)</pre>
```

Number of Verified Reviews Per Month



E. Get the relationship of variations and ratings. Which variations got the most h ghest in rating? Plot a graph to show its relationship. Show your solution and answer.

