$RWorksheet_Layson\#4c$

Gilmar Layson

2024-11-04

#1.

mpg <- read.csv("C:/Users/User/OneDrive/Desktop/Rworksheet/Worksheet4c/mpg.csv", header = TRUE, sep = "
mpg</pre>

| шш | | V | | | J | | 7 | * | J | |
|----|----|----------|----------------------|--------------------|-------|--------------|---|-------------------|----------|----|
| ## | 1 | л п 1 | nanufacturer audi | model a4 | displ | year 1999 | 4 | trans auto(15) | arv f | 18 |
| ## | 2 | 2 | audi | a4 | | 1999 | _ | manual(m5) | f | 21 |
| | 3 | 3 | audi | a4 | | 2008 | 4 | | f | 20 |
| | 4 | 4 | audi | a4 | | 2008 | 4 | auto(av) | f | 21 |
| | 5 | 5 | audi | a4 | | 1999 | 6 | auto(av) | f | 16 |
| | 6 | 6 | audi | a4 | | 1999 | 6 | manual(m5) | f | 18 |
| | 7 | 7 | audi | a4 | | 2008 | 6 | auto(av) | f | 18 |
| | 8 | 8 | audi | a4 quattro | | 1999 | 4 | | 4 | 18 |
| ## | 9 | 9 | audi | a4 quattro | | 1999 | 4 | auto(15) | 4 | 16 |
| | 10 | 10 | audi | a4 quattro | | 2008 | 4 | manual(m6) | 4 | 20 |
| ## | 11 | 11 | audi | a4 quattro | 2.0 | 2008 | 4 | auto(s6) | 4 | 19 |
| ## | 12 | 12 | audi | a4 quattro | | 1999 | 6 | auto(15) | 4 | 15 |
| ## | 13 | 13 | audi | a4 quattro | | 1999 | 6 | manual(m5) | 4 | 17 |
| | 14 | 14 | audi | a4 quattro | | 2008 | 6 | auto(s6) | 4 | 17 |
| | 15 | 15 | audi | a4 quattro | | 2008 | | manual(m6) | 4 | 15 |
| | 16 | 16 | audi | a6 quattro | | 1999 | 6 | auto(15) | 4 | 15 |
| | 17 | 17 | audi | a6 quattro | | 2008 | 6 | auto(s6) | 4 | 17 |
| ## | 18 | 18 | audi | a6 quattro | | 2008 | 8 | auto(s6) | 4 | 16 |
| ## | 19 | 19 | chevrolet | c1500 suburban 2wd | | 2008 | 8 | auto(14) | r | 14 |
| ## | 20 | 20 | chevrolet | c1500 suburban 2wd | 5.3 | 2008 | 8 | auto(14) | r | 11 |
| ## | 21 | 21 | chevrolet | c1500 suburban 2wd | 5.3 | 2008 | 8 | auto(14) | r | 14 |
| ## | 22 | 22 | chevrolet | c1500 suburban 2wd | 5.7 | 1999 | 8 | auto(14) | r | 13 |
| ## | 23 | 23 | chevrolet | c1500 suburban 2wd | 6.0 | 2008 | 8 | auto(14) | r | 12 |
| ## | 24 | 24 | chevrolet | corvette | 5.7 | 1999 | 8 | manual(m6) | r | 16 |
| ## | 25 | 25 | chevrolet | corvette | 5.7 | 1999 | 8 | auto(14) | r | 15 |
| ## | 26 | 26 | chevrolet | corvette | 6.2 | 2008 | 8 | manual(m6) | r | 16 |
| ## | 27 | 27 | chevrolet | corvette | 6.2 | 2008 | 8 | auto(s6) | r | 15 |
| ## | 28 | 28 | chevrolet | corvette | 7.0 | 2008 | 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 | 31 | chevrolet | k1500 tahoe 4wd | 5.7 | 1999 | 8 | auto(14) | 4 | 11 |
| ## | 32 | 32 | chevrolet | k1500 tahoe 4wd | 6.5 | 1999 | 8 | auto(14) | 4 | 14 |
| ## | 33 | 33 | chevrolet | malibu | 2.4 | 1999 | 4 | auto(14) | f | 19 |
| ## | 34 | 34 | chevrolet | malibu | 2.4 | 2008 | 4 | auto(14) | f | 22 |
| ## | 35 | 35 | chevrolet | malibu | 3.1 | 1999 | 6 | auto(14) | f | 18 |

| ## | 36 | 36 | chevrolet | malik | nı 3.5 | 2008 | 6 | auto(14) | f | 18 |
|----|----|----------|-----------|----------------------------|--------|------|---|------------|---|----|
| | 37 | 37 | chevrolet | malik | | 2008 | 6 | auto(s6) | f | 17 |
| | 38 | 38 | dodge | caravan 2w | | 1999 | 4 | auto(13) | f | 18 |
| | 39 | 39 | dodge | caravan 2w | | 1999 | 6 | auto(14) | f | 17 |
| | 40 | 40 | dodge | caravan 2w | | 1999 | 6 | auto(14) | f | 16 |
| | 41 | 41 | dodge | caravan 2w | | 1999 | 6 | auto(14) | f | 16 |
| | 42 | 42 | dodge | caravan 2w | | 2008 | 6 | auto(14) | f | 17 |
| | 43 | 43 | dodge | caravan 2w | | 2008 | 6 | auto(14) | f | 17 |
| | 44 | 44 | • | caravan 2w | | 2008 | 6 | auto(14) | f | 11 |
| | 45 | 45 | dodge | | | 1999 | 6 | auto(14) | f | 15 |
| | | | dodge | caravan 2 | | | 6 | | f | 15 |
| | 46 | 46 | dodge | caravan 2 | | 1999 | | auto(14) | | |
| | 47 | 47 | dodge | caravan 2 | | 2008 | 6 | auto(16) | f | 16 |
| | 48 | 48 | dodge | caravan 2w | | 2008 | 6 | auto(16) | f | 16 |
| | 49 | 49 | dodge | dakota pickup 4w | | 2008 | | manual(m6) | 4 | 15 |
| | 50 | 50 | dodge | dakota pickup 4w | | 2008 | 6 | auto(14) | 4 | 14 |
| | 51 | 51 | dodge | dakota pickup 4w | | 1999 | 6 | auto(14) | 4 | 13 |
| | 52 | 52 | dodge | dakota pickup 4w | | 1999 | | manual(m5) | 4 | 14 |
| | 53 | 53 | dodge | dakota pickup 4w | | 2008 | 8 | auto(15) | 4 | 14 |
| ## | 54 | 54 | dodge | dakota pickup 4w | | 2008 | 8 | auto(15) | 4 | 14 |
| ## | 55 | 55 | dodge | dakota pickup 4w | 1d 4.7 | 2008 | 8 | auto(15) | 4 | 9 |
| ## | 56 | 56 | dodge | dakota pickup 4w | rd 5.2 | 1999 | 8 | manual(m5) | 4 | 11 |
| ## | 57 | 57 | dodge | dakota pickup 4w | 7d 5.2 | 1999 | 8 | auto(14) | 4 | 11 |
| ## | 58 | 58 | dodge | durango 4w | rd 3.9 | 1999 | 6 | auto(14) | 4 | 13 |
| ## | 59 | 59 | dodge | durango 4w | rd 4.7 | 2008 | 8 | auto(15) | 4 | 13 |
| ## | 60 | 60 | dodge | durango 4w | rd 4.7 | 2008 | 8 | auto(15) | 4 | 9 |
| ## | 61 | 61 | dodge | durango 4w | rd 4.7 | 2008 | 8 | auto(15) | 4 | 13 |
| ## | 62 | 62 | dodge | durango 4w | rd 5.2 | 1999 | 8 | auto(14) | 4 | 11 |
| ## | 63 | 63 | dodge | durango 4w | 7d 5.7 | 2008 | 8 | auto(15) | 4 | 13 |
| ## | 64 | 64 | dodge | durango 4w | rd 5.9 | 1999 | 8 | auto(14) | 4 | 11 |
| ## | 65 | 65 | dodge | ram 1500 pickup 4w | rd 4.7 | 2008 | 8 | manual(m6) | 4 | 12 |
| ## | 66 | 66 | dodge | ram 1500 pickup 4w | | 2008 | 8 | auto(15) | 4 | 9 |
| ## | 67 | 67 | dodge | ram 1500 pickup 4w | | 2008 | 8 | auto(15) | 4 | 13 |
| ## | 68 | 68 | dodge | ram 1500 pickup 4w | | 2008 | 8 | auto(15) | 4 | 13 |
| ## | 69 | 69 | dodge | ram 1500 pickup 4w | | 2008 | 8 | manual(m6) | 4 | 12 |
| ## | 70 | 70 | dodge | ram 1500 pickup 4w | | 2008 | 8 | manual(m6) | 4 | 9 |
| ## | 71 | 71 | dodge | ram 1500 pickup 4w | | 1999 | 8 | auto(14) | 4 | 11 |
| ## | | 72 | dodge | ram 1500 pickup 4w | | 1999 | | manual(m5) | 4 | 11 |
| | 73 | 73 | dodge | ram 1500 pickup 4w | | 2008 | 8 | auto(15) | 4 | 13 |
| | 74 | 74 | dodge | ram 1500 pickup 4w | | 1999 | 8 | auto(14) | 4 | 11 |
| | 75 | 75 | ford | expedition 2w | | 1999 | 8 | auto(14) | r | 11 |
| | 76 | 76 | ford | expedition 2w | | 1999 | 8 | auto(14) | r | 11 |
| | 77 | 77 | ford | expedition 2w | | 2008 | 8 | auto(16) | r | 12 |
| | 78 | 78 | ford | explorer 4w | | 1999 | 6 | auto(15) | 4 | 14 |
| | 79 | 79 | ford | explorer 4w | | 1999 | | manual(m5) | 4 | 15 |
| | 80 | 80 | ford | - | | 1999 | 6 | auto(15) | 4 | 14 |
| | 81 | 81 | ford | explorer 4w explorer 4w | | 2008 | 6 | auto(15) | 4 | 13 |
| | | | | - | | | | | | |
| ## | 82 | 82 | ford | explorer 4 | | 2008 | 8 | auto(16) | 4 | 13 |
| | 83 | 83 | ford | explorer 4w | | 1999 | 8 | auto(14) | 4 | 13 |
| ## | 84 | 84 | ford | f150 pickup 4w | | 1999 | 6 | auto(14) | 4 | 14 |
| | 85 | 85 86 | ford | f150 pickup 4w | | 1999 | | manual(m5) | 4 | 14 |
| ## | 86 | 86 | ford | f150 pickup 4w | | 1999 | | manual(m5) | 4 | 13 |
| ## | 87 | 87 | ford | f150 pickup 4w | | 1999 | 8 | auto(14) | 4 | 13 |
| ## | 88 | 88 | ford | f150 pickup 4w | | 2008 | 8 | auto(14) | 4 | 13 |
| ## | 89 | 89 | ford | f150 pickup 4w | na 5.4 | 1999 | 8 | auto(14) | 4 | 11 |

| ## | 90 | 90 | ford | f150 pickup 4wd | 5.4 | 2008 | 8 | auto(14) | 4 | 13 |
|----|-----|-----|------------|--------------------|-----|------|---|------------|---|----|
| | 91 | 91 | ford | mustang | | 1999 | 6 | | r | 18 |
| | 92 | 92 | ford | mustang | | 1999 | 6 | auto(14) | r | 18 |
| ## | 93 | 93 | ford | mustang | | 2008 | 6 | | r | 17 |
| ## | 94 | 94 | ford | mustang | | 2008 | 6 | auto(15) | r | 16 |
| ## | 95 | 95 | ford | mustang | | 1999 | 8 | auto(14) | r | 15 |
| ## | 96 | 96 | ford | mustang | | 1999 | 8 | | r | 15 |
| ## | 97 | 97 | ford | mustang | | 2008 | 8 | manual(m5) | r | 15 |
| ## | 98 | 98 | ford | mustang | | 2008 | 8 | auto(15) | r | 15 |
| ## | 99 | 99 | ford | mustang | | 2008 | 8 | 1 1 | r | 14 |
| ## | 100 | 100 | honda | civic | 1.6 | 1999 | 4 | manual(m5) | f | 28 |
| ## | 101 | 101 | honda | civic | 1.6 | 1999 | 4 | auto(14) | f | 24 |
| ## | 102 | 102 | honda | civic | 1.6 | 1999 | 4 | manual(m5) | f | 25 |
| ## | 103 | 103 | honda | civic | 1.6 | 1999 | 4 | manual(m5) | f | 23 |
| ## | 104 | 104 | honda | civic | 1.6 | 1999 | 4 | auto(14) | f | 24 |
| ## | 105 | 105 | honda | civic | 1.8 | 2008 | 4 | manual(m5) | f | 26 |
| ## | 106 | 106 | honda | civic | 1.8 | 2008 | 4 | auto(15) | f | 25 |
| ## | 107 | 107 | honda | civic | 1.8 | 2008 | 4 | auto(15) | f | 24 |
| ## | 108 | 108 | honda | civic | 2.0 | 2008 | 4 | manual(m6) | f | 21 |
| ## | 109 | 109 | hyundai | sonata | 2.4 | 1999 | 4 | auto(14) | f | 18 |
| ## | 110 | 110 | hyundai | sonata | 2.4 | 1999 | 4 | | f | 18 |
| ## | 111 | 111 | hyundai | sonata | 2.4 | 2008 | 4 | auto(14) | f | 21 |
| ## | 112 | 112 | hyundai | sonata | 2.4 | 2008 | 4 | manual(m5) | f | 21 |
| ## | 113 | 113 | hyundai | sonata | 2.5 | 1999 | 6 | auto(14) | f | 18 |
| ## | 114 | 114 | hyundai | sonata | 2.5 | 1999 | 6 | | f | 18 |
| ## | 115 | 115 | hyundai | sonata | 3.3 | 2008 | 6 | auto(15) | f | 19 |
| ## | 116 | 116 | hyundai | tiburon | 2.0 | 1999 | 4 | auto(14) | f | 19 |
| ## | 117 | 117 | hyundai | tiburon | 2.0 | 1999 | 4 | manual(m5) | f | 19 |
| ## | 118 | 118 | hyundai | tiburon | 2.0 | 2008 | 4 | manual(m5) | f | 20 |
| ## | 119 | 119 | hyundai | tiburon | 2.0 | 2008 | 4 | auto(14) | f | 20 |
| ## | 120 | 120 | hyundai | tiburon | 2.7 | 2008 | 6 | auto(14) | f | 17 |
| ## | 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 | jeep | grand cherokee 4wd | 3.0 | 2008 | 6 | auto(15) | 4 | 17 |
| ## | 124 | 124 | jeep | grand cherokee 4wd | 3.7 | 2008 | 6 | auto(15) | 4 | 15 |
| ## | 125 | 125 | jeep | grand cherokee 4wd | 4.0 | 1999 | 6 | auto(14) | 4 | 15 |
| ## | 126 | 126 | jeep | grand cherokee 4wd | 4.7 | 1999 | 8 | auto(14) | 4 | 14 |
| ## | 127 | 127 | jeep | grand cherokee 4wd | 4.7 | 2008 | 8 | auto(15) | 4 | 9 |
| ## | 128 | 128 | jeep | grand cherokee 4wd | | 2008 | 8 | auto(15) | 4 | 14 |
| ## | 129 | 129 | jeep | grand cherokee 4wd | | 2008 | 8 | auto(15) | 4 | 13 |
| ## | 130 | 130 | jeep | grand cherokee 4wd | | 2008 | 8 | auto(15) | 4 | 11 |
| ## | 131 | | land rover | range rover | | 1999 | 8 | auto(14) | 4 | 11 |
| ## | 132 | | land rover | range rover | | 2008 | 8 | auto(s6) | 4 | 12 |
| | 133 | | land rover | range rover | | 2008 | 8 | auto(s6) | 4 | 12 |
| | 134 | | land rover | range rover | | 1999 | 8 | auto(14) | 4 | 11 |
| | 135 | | lincoln | navigator 2wd | | 1999 | 8 | auto(14) | r | 11 |
| | 136 | | lincoln | navigator 2wd | | 1999 | 8 | auto(14) | r | 11 |
| | 137 | | lincoln | navigator 2wd | | 2008 | 8 | auto(16) | r | 12 |
| ## | 138 | | mercury | mountaineer 4wd | | 1999 | 6 | auto(15) | 4 | 14 |
| | 139 | | mercury | mountaineer 4wd | | 2008 | 6 | auto(15) | 4 | 13 |
| | 140 | | mercury | mountaineer 4wd | | 2008 | 8 | auto(16) | 4 | 13 |
| | 141 | | mercury | mountaineer 4wd | | 1999 | 8 | auto(14) | 4 | 13 |
| | 142 | | nissan | altima | | 1999 | | manual(m5) | f | 21 |
| ## | 143 | 143 | nissan | altima | 2.4 | 1999 | 4 | auto(14) | f | 19 |

| ## | 144 | | nissan | altima | | 2008 | 4 | auto(av) | f | 23 |
|----|-----|-----|---------|----------------|-----|------|---|------------|---|----|
| ## | 145 | | nissan | altima | | 2008 | 4 | manual(m6) | f | 23 |
| ## | 146 | | nissan | altima | | 2008 | 6 | manual(m6) | f | 19 |
| ## | 147 | | nissan | altima | | 2008 | 6 | auto(av) | f | 19 |
| ## | 148 | | nissan | maxima | | 1999 | 6 | auto(14) | f | 18 |
| ## | 149 | 149 | nissan | maxima | | 1999 | 6 | manual(m5) | f | 19 |
| ## | 150 | 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 | 154 | nissan | pathfinder 4wd | 5.6 | 2008 | 8 | auto(s5) | 4 | 12 |
| ## | 155 | 155 | pontiac | grand prix | 3.1 | 1999 | 6 | auto(14) | f | 18 |
| ## | 156 | 156 | pontiac | grand prix | 3.8 | 1999 | 6 | auto(14) | f | 16 |
| ## | 157 | 157 | pontiac | grand prix | 3.8 | 1999 | 6 | auto(14) | f | 17 |
| ## | 158 | 158 | pontiac | grand prix | 3.8 | 2008 | 6 | auto(14) | f | 18 |
| ## | 159 | 159 | pontiac | grand prix | 5.3 | 2008 | 8 | auto(s4) | f | 16 |
| ## | 160 | 160 | subaru | forester awd | 2.5 | 1999 | 4 | manual(m5) | 4 | 18 |
| ## | 161 | 161 | subaru | forester awd | 2.5 | 1999 | 4 | auto(14) | 4 | 18 |
| ## | 162 | 162 | subaru | forester awd | 2.5 | 2008 | 4 | manual(m5) | 4 | 20 |
| ## | 163 | 163 | subaru | forester awd | 2.5 | 2008 | 4 | manual(m5) | 4 | 19 |
| ## | 164 | 164 | subaru | forester awd | 2.5 | 2008 | 4 | auto(14) | 4 | 20 |
| ## | 165 | 165 | subaru | forester awd | 2.5 | 2008 | 4 | auto(14) | 4 | 18 |
| ## | 166 | 166 | subaru | impreza awd | 2.2 | 1999 | 4 | auto(14) | 4 | 21 |
| ## | 167 | 167 | subaru | impreza awd | 2.2 | 1999 | 4 | manual(m5) | 4 | 19 |
| ## | 168 | 168 | subaru | impreza awd | 2.5 | 1999 | 4 | manual(m5) | 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 | 174 | toyota | 4runner 4wd | 2.7 | 1999 | 4 | manual(m5) | 4 | 15 |
| ## | 175 | 175 | toyota | 4runner 4wd | 2.7 | 1999 | 4 | auto(14) | 4 | 16 |
| ## | 176 | 176 | toyota | 4runner 4wd | 3.4 | 1999 | 6 | auto(14) | 4 | 15 |
| ## | 177 | 177 | toyota | 4runner 4wd | 3.4 | 1999 | 6 | manual(m5) | 4 | 15 |
| ## | 178 | 178 | toyota | 4runner 4wd | 4.0 | 2008 | 6 | auto(15) | 4 | 16 |
| ## | 179 | 179 | toyota | 4runner 4wd | 4.7 | 2008 | 8 | auto(15) | 4 | 14 |
| ## | 180 | 180 | toyota | camry | 2.2 | 1999 | 4 | manual(m5) | f | 21 |
| ## | 181 | 181 | toyota | camry | 2.2 | 1999 | 4 | auto(14) | f | 21 |
| ## | 182 | 182 | toyota | camry | 2.4 | 2008 | 4 | manual(m5) | f | 21 |
| ## | 183 | 183 | toyota | camry | 2.4 | 2008 | 4 | auto(15) | f | 21 |
| ## | 184 | 184 | toyota | camry | | 1999 | 6 | auto(14) | f | 18 |
| ## | 185 | 185 | toyota | camry | | 1999 | 6 | manual(m5) | f | 18 |
| ## | 186 | 186 | toyota | camry | 3.5 | 2008 | 6 | auto(s6) | f | 19 |
| ## | 187 | 187 | toyota | camry solara | | 1999 | 4 | auto(14) | f | 21 |
| ## | 188 | 188 | toyota | camry solara | | 1999 | 4 | manual(m5) | f | 21 |
| ## | 189 | 189 | toyota | camry solara | 2.4 | 2008 | 4 | manual(m5) | f | 21 |
| ## | 190 | 190 | toyota | camry solara | | 2008 | 4 | auto(s5) | f | 22 |
| ## | 191 | 191 | toyota | camry solara | | 1999 | 6 | auto(14) | f | 18 |
| ## | 192 | 192 | toyota | camry solara | 3.0 | 1999 | 6 | manual(m5) | f | 18 |
| ## | 193 | 193 | toyota | camry solara | 3.3 | 2008 | 6 | auto(s5) | f | 18 |
| ## | 194 | 194 | toyota | corolla | 1.8 | 1999 | 4 | auto(13) | f | 24 |
| ## | 195 | 195 | toyota | corolla | 1.8 | 1999 | 4 | auto(14) | f | 24 |
| ## | 196 | 196 | toyota | corolla | 1.8 | 1999 | 4 | manual(m5) | f | 26 |
| ## | 197 | 197 | toyota | corolla | 1.8 | 2008 | 4 | manual(m5) | f | 28 |
| | | | | | | | | | | |

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

| ## | 17 | 25 | р | midsize |
|----|----|----------|---|---------|
| ## | 18 | 23 | р | midsize |
| ## | 19 | 20 | r | suv |
| ## | 20 | 15 | е | suv |
| ## | 21 | 20 | r | suv |
| ## | 22 | 17 | r | suv |
| ## | 23 | 17 | r | suv |
| ## | 24 | 26 | р | 2seater |
| ## | 25 | 23 | p | 2seater |
| ## | 26 | 26 | p | 2seater |
| ## | 27 | 25 | p | 2seater |
| ## | 28 | 24 | p | 2seater |
| ## | 29 | 19 | r | suv |
| ## | 30 | 14 | е | suv |
| ## | 31 | 15 | r | suv |
| ## | 32 | 17 | d | suv |
| ## | 33 | 27 | r | midsize |
| ## | 34 | 30 | r | midsize |
| ## | 35 | 26 | r | midsize |
| ## | 36 | 29 | r | midsize |
| ## | 37 | 26 | r | midsize |
| ## | 38 | 24 | r | minivan |
| ## | 39 | 24 | r | minivan |
| ## | 40 | 22 | r | minivan |
| ## | 41 | 22 | r | minivan |
| ## | 42 | 24 | r | minivan |
| ## | 43 | 24 | r | minivan |
| ## | 44 | 17 | e | minivan |
| ## | 45 | 22 | | minivan |
| ## | 46 | 21 | r | minivan |
| ## | 47 | 23 | r | minivan |
| ## | 48 | 23 | r | minivan |
| ## | 49 | 19 | r | |
| ## | | | r | pickup |
| | 50 | 18 17 | r | pickup |
| ## | 51 | | 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 | е | pickup |
| ## | 67 | 17 | r | pickup |
| ## | 68 | 17 | r | pickup |
| ## | 69 | 16 | r | pickup |
| ## | 70 | 12 | е | pickup |
| | | | | |

```
## 71
        15
            r
                   pickup
## 72
        16
             r
                   pickup
##
  73
        17
             r
                   pickup
##
  74
        15
             r
                   pickup
##
   75
        17
                       suv
##
   76
        17
                       suv
##
   77
        18
                       suv
## 78
        17
                       suv
##
   79
        19
             r
                       suv
##
  80
        17
                       suv
##
   81
        19
             r
                       suv
##
  82
        19
                       suv
##
   83
        17
             r
                       suv
##
  84
        17
                   pickup
##
  85
        17
                   pickup
             r
## 86
        16
             r
                   pickup
##
  87
        16
                   pickup
##
   88
        17
                   pickup
##
   89
        15
                   pickup
## 90
        17
                   pickup
##
  91
        26
             r subcompact
## 92
             r subcompact
## 93
             r subcompact
        26
##
  94
        24
             r subcompact
## 95
        21
             r subcompact
##
  96
            r subcompact
## 97
        23
            r subcompact
##
   98
        22
             r subcompact
        20
## 99
             p subcompact
## 100
        33
             r subcompact
        32
## 101
             r subcompact
##
  102
        32
             r subcompact
##
  103
             p subcompact
## 104
        32
            r subcompact
   105
        34
             r subcompact
##
        36
## 106
             r subcompact
## 107
        36
             c subcompact
## 108
        29
             p subcompact
        26
## 109
             r
                  midsize
## 110
        27
                  midsize
             r
## 111
                  midsize
## 112
        31
                  midsize
## 113
        26
                  midsize
## 114
        26
                  midsize
## 115
        28
             r
                  midsize
## 116
        26
             r subcompact
## 117
        29
             r subcompact
## 118
        28
             r subcompact
## 119
        27
             r subcompact
## 120
        24
             r subcompact
        24
## 121
             r subcompact
        24
## 122
             r subcompact
## 123
        22
             d
                       suv
## 124
        19
                       suv
```

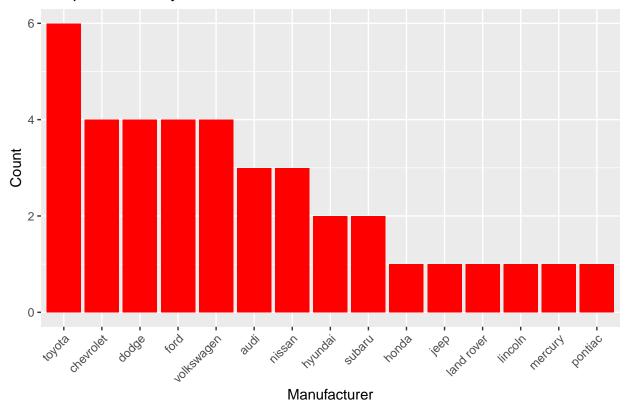
```
## 125
        20
            r
                       suv
## 126
        17
             r
                       suv
## 127
        12
             е
                       suv
## 128
        19
             r
                       suv
## 129
        18
             r
                       suv
## 130
        14
                       suv
## 131
        15
                       suv
             p
## 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
                       suv
             r
## 140
        19
             r
                       suv
## 141
        17
                       suv
             r
## 142
        29
             r
                  compact
## 143
        27
                  compact
             r
## 144
        31
                  midsize
## 145
        32
             r
                  midsize
## 146
        27
                  midsize
## 147
        26
                  midsize
             р
        26
## 148
             r
                  midsize
## 149
        25
                  midsize
            r
## 150
        25
             p
                  midsize
## 151
        17
                       suv
## 152
        17
             r
                       suv
        20
## 153
                       suv
## 154
        18
                       suv
             p
## 155
        26
             r
                  midsize
## 156
        26
             p
                  midsize
## 157
        27
                  midsize
## 158
        28
                  midsize
            r
## 159
        25
             p
                  midsize
## 160
        25
                       suv
             r
## 161
        24
                       suv
## 162
        27
             r
                       suv
## 163
        25
             р
                       suv
## 164
        26
             r
                       suv
        23
## 165
             р
                       suv
        26
## 166
             r subcompact
##
  167
        26
             r subcompact
## 168
        26
             r subcompact
## 169
        26
             r subcompact
## 170
        25
                  compact
             р
## 171
        27
                  compact
            r
## 172
        25
             p
                  compact
## 173
        27
            r
                  compact
## 174
        20
                       suv
## 175
        20
            r
                       suv
## 176
        19
                       suv
## 177
        17
            r
                       suv
## 178
        20
                       suv
```

```
## 179
         17
             r
                       suv
## 180
        29
             r
                  midsize
## 181
                  midsize
         27
## 182
        31
                  midsize
             r
##
   183
        31
             r
                  midsize
## 184
        26
                  midsize
             r
## 185
         26
                  midsize
             r
## 186
        28
                  midsize
             r
## 187
         27
             r
                  compact
## 188
        29
                   compact
             r
   189
         31
            r
                   compact
## 190
        31
                   compact
##
   191
         26
                   compact
            r
         26
## 192
                   compact
## 193
        27
                   compact
             r
## 194
         30
             r
                   compact
## 195
        33
                   compact
             r
##
   196
         35
             r
                   compact
## 197
        37
                  compact
             r
## 198
        35
                   compact
##
   199
         15
             r
                       suv
## 200
         18
                       suv
## 201
        20
                   pickup
             r
        20
## 202
             r
                   pickup
## 203
        22
             r
                   pickup
## 204
        17
             r
                   pickup
## 205
        19
                   pickup
##
   206
        18
                   pickup
             r
         20
## 207
                   pickup
## 208
         29
             r
                   compact
## 209
         26
                   compact
## 210
        29
             p
                   compact
##
   211
         29
                   compact
             p
## 212
        24
                   compact
             r
## 213
        44
                   compact
## 214
        29
                   compact
             r
## 215
        26
                   compact
## 216
        29
                   compact
             p
## 217
         29
             p
                   compact
## 218
        29
                   compact
             r
## 219
         29
             r
                   compact
## 220
        23
             r
                   compact
## 221
         24
                   compact
             r
## 222
         44
             d subcompact
## 223
         41
             d subcompact
## 224
         29
             r subcompact
## 225
        26
             r subcompact
## 226
         28
             r subcompact
   227
        29
##
             r subcompact
##
   228
        29
                  midsize
             р
##
   229
        29
                  midsize
             р
## 230
        28
                  midsize
             р
## 231
        29
             p
                  midsize
## 232
        26
                  midsize
             р
```

```
## 233 26 p
                 midsize
## 234 26 p
                 midsize
#b.
#Categorical Variables identified as manufacturer, model, trans, drv, fl, and class.
#c.
#Continuous Variables identified as displ, cty, and hwy.
#2.
#With six distinct models, Toyota is the manufacturer with the most models in this dataset. With 11 dis
#a.
library(ggplot2)
## Attaching package: 'ggplot2'
## The following object is masked _by_ '.GlobalEnv':
##
##
       mpg
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
manufacturer_count <- mpg %>%
  count(manufacturer, model, name = "unique_models") %>%
  group_by(manufacturer) %>%
  summarise(unique_models = n()) %>%
  arrange(desc(unique_models))
manufacturer_count
```

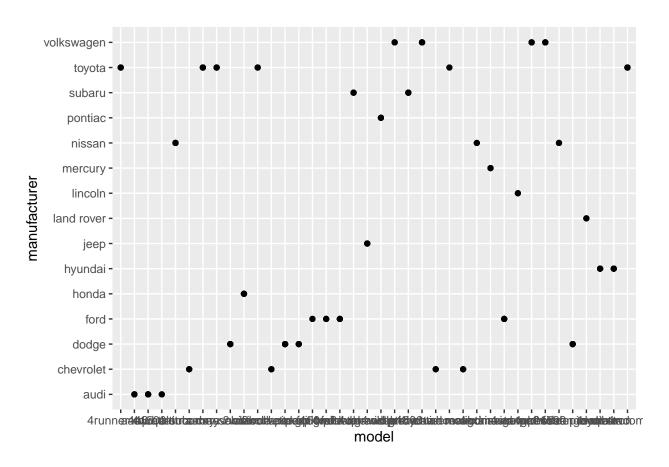
```
## # A tibble: 15 x 2
     manufacturer unique_models
##
##
     <chr>
                         <int>
## 1 toyota
                              6
## 2 chevrolet
                              4
## 3 dodge
## 4 ford
## 5 volkswagen
                              4
## 6 audi
                              3
## 7 nissan
                              3
## 8 hyundai
## 9 subaru
                              2
## 10 honda
                              1
## 11 jeep
                              1
## 12 land rover
                              1
## 13 lincoln
                              1
## 14 mercury
                              1
## 15 pontiac
                              1
#b.
library(ggplot2)
library(dplyr)
manufacturer_model_count <- mpg %>%
 group_by(manufacturer) %>%
 summarise(unique_models = n_distinct(model)) %>%
 arrange(desc(unique_models))
ggplot(manufacturer_model_count, aes(x = reorder(manufacturer, -unique_models), y = unique_models)) +
 geom_col(fill = "red") +
 labs(title = "Unique Models by Manufacturer", x = "Manufacturer", y = "Count") +
 theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

Unique Models by Manufacturer



#2.a.

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



#Every point in the scatter plot that is produced represents a distinct model-manufacturer combination.

#b.

#It is helpful, but the plot is cluttered and difficult to read due to the excessive number of categori

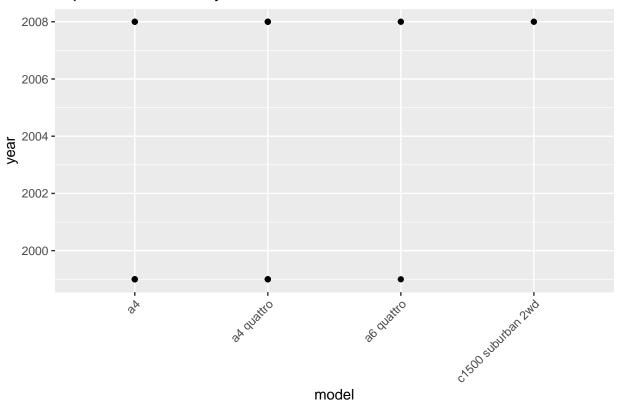
#3.

```
library(ggplot2)
library(dplyr)

top20data <- mpg %>% slice(1:20)

ggplot(top20data, aes(x = model, y = year)) +
   geom_point() +
   labs(title = "Top 20 Car Models by Year") +
   theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

Top 20 Car Models by Year



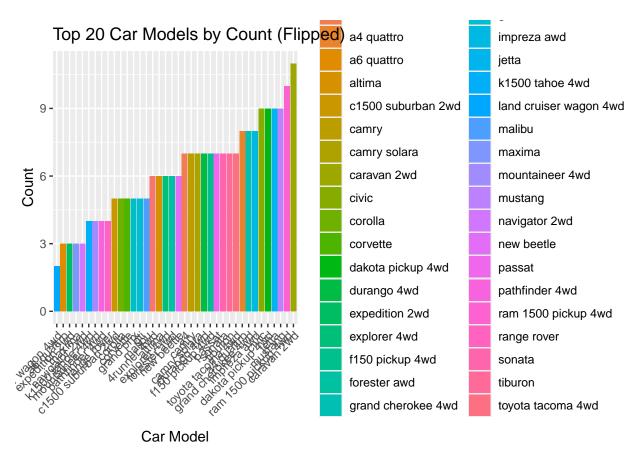
#4.

```
modelcount <- mpg %>%
  group_by(model) %>%
  summarise(car_count = n())

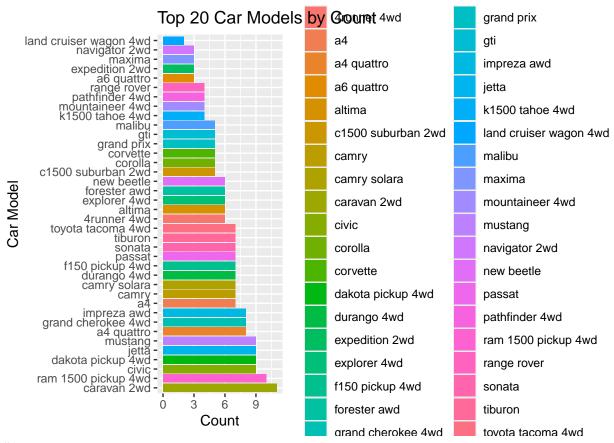
modelcount
```

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

#a.



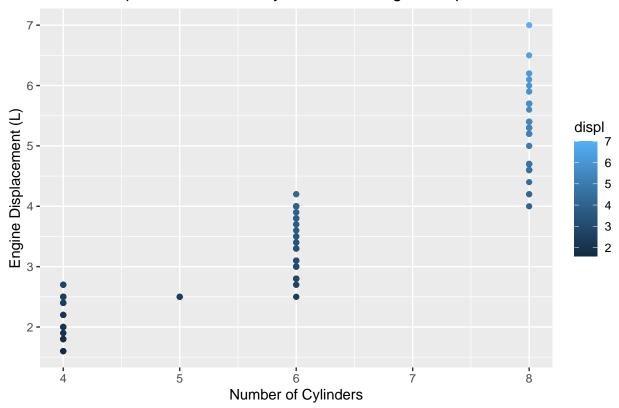
#b.



#5. a.

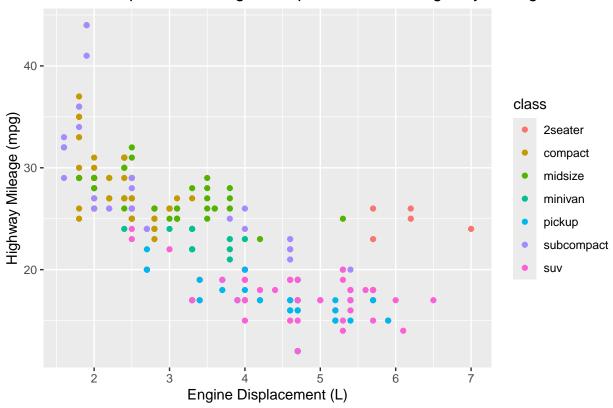
y = "Engine Displacement (L)")

Relationship between No. of Cylinders and Engine Displacement



#6.

Relationship between Engine Displacement and Highway Mileage



#6.

traffic <- read.csv("C:/Users/User/OneDrive/Desktop/Rworksheet/Worksheet4c/traffic.csv", header = TRUE,
traffic</pre>

| ## | | | DateTime | Junction | Vehicles | ID |
|----|----|------------|----------|----------|----------|-------------|
| ## | 1 | 2015-11-01 | 00:00:00 | 1 | 15 | 20151101001 |
| ## | 2 | 2015-11-01 | 01:00:00 | 1 | 13 | 20151101011 |
| ## | 3 | 2015-11-01 | 02:00:00 | 1 | 10 | 20151101021 |
| ## | 4 | 2015-11-01 | 03:00:00 | 1 | 7 | 20151101031 |
| ## | 5 | 2015-11-01 | 04:00:00 | 1 | 9 | 20151101041 |
| ## | 6 | 2015-11-01 | 05:00:00 | 1 | 6 | 20151101051 |
| ## | 7 | 2015-11-01 | 06:00:00 | 1 | 9 | 20151101061 |
| ## | 8 | 2015-11-01 | 07:00:00 | 1 | 8 | 20151101071 |
| ## | 9 | 2015-11-01 | 08:00:00 | 1 | 11 | 20151101081 |
| ## | 10 | 2015-11-01 | 09:00:00 | 1 | 12 | 20151101091 |
| ## | 11 | 2015-11-01 | 10:00:00 | 1 | 15 | 20151101101 |
| ## | 12 | 2015-11-01 | 11:00:00 | 1 | 17 | 20151101111 |
| ## | 13 | 2015-11-01 | 12:00:00 | 1 | 16 | 20151101121 |
| ## | 14 | 2015-11-01 | 13:00:00 | 1 | 15 | 20151101131 |
| ## | 15 | 2015-11-01 | 14:00:00 | 1 | 16 | 20151101141 |
| ## | 16 | 2015-11-01 | 15:00:00 | 1 | 12 | 20151101151 |
| ## | 17 | 2015-11-01 | 16:00:00 | 1 | 12 | 20151101161 |
| ## | 18 | 2015-11-01 | 17:00:00 | 1 | 16 | 20151101171 |
| ## | 19 | 2015-11-01 | 18:00:00 | 1 | 17 | 20151101181 |
| ## | 20 | 2015-11-01 | 19:00:00 | 1 | 20 | 20151101191 |
| ## | 21 | 2015-11-01 | 20:00:00 | 1 | 17 | 20151101201 |

| ## | 22 | 2015-11-01 | 21:00:00 | 1 | 19 | 20151101211 |
|----|----|------------|----------|---|----|-------------|
| ## | 23 | 2015-11-01 | 22:00:00 | 1 | 20 | 20151101221 |
| ## | 24 | 2015-11-01 | 23:00:00 | 1 | 15 | 20151101231 |
| ## | 25 | 2015-11-02 | 00:00:00 | 1 | 14 | 20151102001 |
| ## | 26 | 2015-11-02 | 01:00:00 | 1 | 12 | 20151102011 |
| ## | 27 | 2015-11-02 | 02:00:00 | 1 | 14 | 20151102021 |
| ## | 28 | 2015-11-02 | 03:00:00 | 1 | 12 | 20151102031 |
| ## | 29 | 2015-11-02 | 04:00:00 | 1 | 12 | 20151102041 |
| ## | 30 | 2015-11-02 | 05:00:00 | 1 | 11 | 20151102051 |
| ## | 31 | 2015-11-02 | 06:00:00 | 1 | 13 | 20151102061 |
| ## | 32 | 2015-11-02 | 07:00:00 | 1 | 14 | 20151102071 |
| ## | 33 | 2015-11-02 | 08:00:00 | 1 | 12 | 20151102081 |
| ## | 34 | 2015-11-02 | 09:00:00 | 1 | 22 | 20151102091 |
| ## | 35 | 2015-11-02 | 10:00:00 | 1 | 32 | 20151102101 |
| ## | 36 | 2015-11-02 | 11:00:00 | 1 | 31 | 20151102111 |
| ## | 37 | 2015-11-02 | 12:00:00 | 1 | 35 | 20151102121 |
| ## | 38 | 2015-11-02 | 13:00:00 | 1 | 26 | 20151102131 |
| ## | 39 | 2015-11-02 | 14:00:00 | 1 | 34 | 20151102141 |
| ## | 40 | 2015-11-02 | 15:00:00 | 1 | 30 | 20151102151 |
| ## | 41 | | 16:00:00 | 1 | 27 | 20151102161 |
| ## | 42 | | 17:00:00 | 1 | 27 | 20151102171 |
| | 43 | | 18:00:00 | 1 | 24 | 20151102181 |
| | 44 | | 19:00:00 | 1 | 26 | 20151102191 |
| | 45 | 2015-11-02 | | 1 | 29 | 20151102101 |
| | 46 | 2015-11-02 | | 1 | 32 | 20151102201 |
| ## | 47 | 2015-11-02 | | 1 | 30 | 20151102211 |
| ## | 48 | 2015-11-02 | | 1 | 27 | 20151102221 |
| ## | 49 | 2015-11-03 | | 1 | 21 | 20151102201 |
| ## | 50 | 2015-11-03 | | 1 | | 20151103001 |
| ## | 51 | 2015-11-03 | | 1 | 19 | 20151103011 |
| ## | 52 | 2015-11-03 | | 1 | | 20151103021 |
| ## | 53 | 2015-11-03 | | 1 | 11 | 20151103031 |
| ## | 54 | 2015-11-03 | | 1 | 11 | 20151103041 |
| ## | 55 | 2015-11-03 | | 1 | 11 | 20151103051 |
| ## | 56 | 2015 11 03 | | 1 | | 20151103001 |
| ## | 57 | 2015 11 03 | | 1 | | 20151103071 |
| ## | 58 | 2015 11 03 | | 1 | | 20151103081 |
| | 59 | 2015 11 03 | | 1 | | 20151103091 |
| | 60 | 2015 11 03 | | 1 | | 20151103101 |
| | 61 | 2015 11 03 | | 1 | | 20151103111 |
| | 62 | 2015-11-03 | | 1 | | 20151103121 |
| | 63 | 2015-11-03 | | 1 | | 20151103131 |
| | 64 | 2015-11-03 | | 1 | | |
| | | | | 1 | | 20151103151 |
| | 65 | 2015-11-03 | | | | 20151103161 |
| | 66 | 2015-11-03 | | 1 | | 20151103171 |
| | 67 | 2015-11-03 | | 1 | | 20151103181 |
| | 68 | 2015-11-03 | | 1 | | 20151103191 |
| | 69 | 2015-11-03 | | 1 | | 20151103201 |
| | 70 | 2015-11-03 | | 1 | | 20151103211 |
| | 71 | 2015-11-03 | | 1 | | 20151103221 |
| | 72 | 2015-11-03 | | 1 | | 20151103231 |
| | 73 | 2015-11-04 | | 1 | | 20151104001 |
| | 74 | 2015-11-04 | | 1 | | 20151104011 |
| ## | 75 | 2015-11-04 | 02:00:00 | 1 | 13 | 20151104021 |
| | | | | | | |

```
## 76
         2015-11-04 03:00:00
                                               13 20151104031
##
         2015-11-04 04:00:00
  77
                                      1
                                               10 20151104041
##
  78
         2015-11-04 05:00:00
                                      1
                                               12 20151104051
##
  79
         2015-11-04 06:00:00
                                               13 20151104061
                                      1
##
   80
         2015-11-04 07:00:00
                                      1
                                               11 20151104071
## 81
         2015-11-04 08:00:00
                                      1
                                               13 20151104081
  82
         2015-11-04 09:00:00
                                      1
                                               22 20151104091
                                               26 20151104101
## 83
         2015-11-04 10:00:00
                                      1
##
   84
         2015-11-04 11:00:00
                                      1
                                               27 20151104111
##
  85
         2015-11-04 12:00:00
                                      1
                                               31 20151104121
   86
         2015-11-04 13:00:00
                                      1
                                               24 20151104131
                                               23 20151104141
## 87
         2015-11-04 14:00:00
                                      1
##
   88
         2015-11-04 15:00:00
                                      1
                                               26 20151104151
         2015-11-04 16:00:00
                                               26 20151104161
##
  89
                                      1
## 90
         2015-11-04 17:00:00
                                      1
                                               24 20151104171
## 91
         2015-11-04 18:00:00
                                      1
                                               23 20151104181
         2015-11-04 19:00:00
##
  92
                                      1
                                               25 20151104191
##
  93
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| ## | | 2016-12-30 | | 2 | 15 | 20161230172 |
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| ## | 24812 | 2016-12-30 | 19:00:00 | 2 | 10 | 20161230192 |
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| ## | | 2016-12-31 | | 2 | | 20161231002 |
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| ## | | 2016-12-31 | | 2 | | 20161231022 |
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| ## | 24827 | 2016-12-31 | 10:00:00 | 2 | 9 | 20161231102 |
| ## | 24828 | 2016-12-31 | 11:00:00 | 2 | 10 | 20161231112 |
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| ## | 24838 | 2016-12-31 | 21:00:00 | 2 | 12 | 20161231212 |
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| ## | 24840 | 2016-12-31 | 23:00:00 | 2 | 9 | 20161231232 |
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| ## | 24842 | 2017-01-01 | 01:00:00 | 2 | 9 | 20170101012 |
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                                           11 20170107132
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## 24999 2017-01-07 14:00:00
                                            13 20170107142
## [ reached 'max' / getOption("max.print") -- omitted 23121 rows ]
#a.
print(paste("Number of observations:", nrow(traffic)))
## [1] "Number of observations: 48120"
print(paste("Variables:", paste(names(traffic), collapse = ", ")))
## [1] "Variables: DateTime, Junction, Vehicles, ID"
#b.
junctions <- traffic[traffic$Junction == 1, ]</pre>
print(junctions)
##
                    DateTime Junction Vehicles
                                                        TD
## 1
         2015-11-01 00:00:00
                                    1
                                            15 20151101001
## 2
         2015-11-01 01:00:00
                                    1
                                            13 20151101011
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| ## | 3 | 2015-11-01 | 02:00:00 | 1 | 10 | 20151101021 |
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| ## | 5 | 2015-11-01 | 04:00:00 | 1 | 9 | 20151101041 |
| ## | 6 | 2015-11-01 | 05:00:00 | 1 | 6 | 20151101051 |
| ## | 7 | 2015-11-01 | 06:00:00 | 1 | 9 | 20151101061 |
| ## | 8 | 2015-11-01 | | 1 | | 20151101071 |
| ## | 9 | 2015-11-01 | | 1 | | 20151101081 |
| ## | 10 | 2015-11-01 | | 1 | | 20151101001 |
| | | 2015-11-01 | | | | 20151101091 |
| ## | 11 | | | 1 | | |
| ## | 12 | | | 1 | 17 | |
| ## | 13 | 2015-11-01 | | 1 | | 20151101121 |
| ## | 14 | 2015-11-01 | | 1 | | 20151101131 |
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                                           64 20170624201
## 14446 2017-06-24 21:00:00
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                                            66 20170624211
## 14447 2017-06-24 22:00:00
                                            64 20170624221
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## 14448 2017-06-24 23:00:00
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                                            63 20170624231
## 14449 2017-06-25 00:00:00
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## 14454 2017-06-25 05:00:00
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## 14455 2017-06-25 06:00:00
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## 14457 2017-06-25 08:00:00
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## 14458 2017-06-25 09:00:00
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## 14459 2017-06-25 10:00:00
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                                           52 20170625101
## 14460 2017-06-25 11:00:00
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                                           56 20170625111
## 14461 2017-06-25 12:00:00
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                                            58 20170625121
## 14462 2017-06-25 13:00:00
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## 14463 2017-06-25 14:00:00
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## 14464 2017-06-25 15:00:00
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## 14465 2017-06-25 16:00:00
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## 14466 2017-06-25 17:00:00
                                           56 20170625171
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## 14467 2017-06-25 18:00:00
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## 14468 2017-06-25 19:00:00
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## 14469 2017-06-25 20:00:00
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## 14470 2017-06-25 21:00:00
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## 14471 2017-06-25 22:00:00
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                                            64 20170625221
## 14472 2017-06-25 23:00:00
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                                           60 20170625231
## 14473 2017-06-26 00:00:00
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                                           59 20170626001
## 14474 2017-06-26 01:00:00
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                                            51 20170626011
```

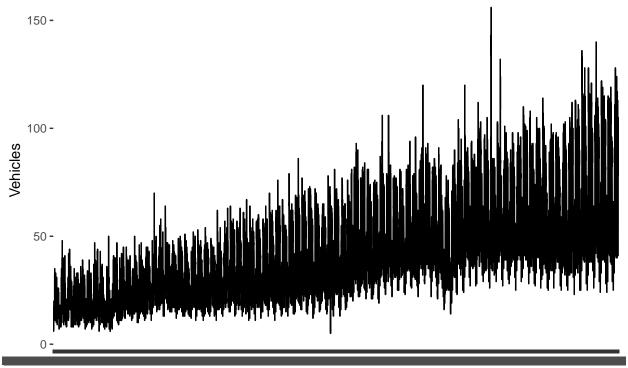
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## 14476 2017-06-26 03:00:00
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                                            40 20170626031
## 14477 2017-06-26 04:00:00
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## 14478 2017-06-26 05:00:00
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## 14479 2017-06-26 06:00:00
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## 14480 2017-06-26 07:00:00
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## 14481 2017-06-26 08:00:00
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                                           55 20170626081
## 14482 2017-06-26 09:00:00
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## 14483 2017-06-26 10:00:00
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## 14484 2017-06-26 11:00:00
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                                           86 20170626151
## 14488 2017-06-26 15:00:00
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## 14490 2017-06-26 17:00:00
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## 14521 2017-06-28 00:00:00
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## 14522 2017-06-28 01:00:00
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## 14523 2017-06-28 02:00:00
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## 14524 2017-06-28 03:00:00
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## 14525 2017-06-28 04:00:00
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## 14526 2017-06-28 05:00:00
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## 14527 2017-06-28 06:00:00
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## 14528 2017-06-28 07:00:00
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## 14530 2017-06-28 09:00:00
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## 14551 2017-06-29 06:00:00
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## 14583 2017-06-30 14:00:00
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## 14586 2017-06-30 17:00:00
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                                             95 20170630181
## 14588 2017-06-30 19:00:00
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## 14589 2017-06-30 20:00:00
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## 14590 2017-06-30 21:00:00
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## 14591 2017-06-30 22:00:00
                                    1
                                             84 20170630221
## 14592 2017-06-30 23:00:00
                                    1
                                             78 20170630231
```

#c.

Traffic Volume at Junctions



Date Time

#7.

```
library(readxl)
alexa_file <- read.csv("C:/Users/User/OneDrive/Desktop/Rworksheet/Worksheet4c/alexa_file.xlsx")</pre>
```

```
## Warning in read.table(file = file, header = header, sep = sep, quote = quote, :
## line 1 appears to contain embedded nulls

## Warning in read.table(file = file, header = header, sep = sep, quote = quote, :
## incomplete final line found by readTableHeader on
## 'C:/Users/User/OneDrive/Desktop/Rworksheet/Worksheet4c/alexa_file.xlsx'

alexa_file

## [1] PK...
## <0 rows> (or 0-length row.names)

#a.

print(paste("Number of observations:", nrow(alexa_file)))

## [1] "Number of observations: 0"

print(paste("Number of columns:", ncol(alexa_file)))

## [1] "Number of columns: 1"
```