RWorksheet_Lapso4c.Rmd

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a. Show your solutions on how to import a csv file into the environment.

```
library(csv)

data(mpg)
```

```
## Warning in data(mpg): data set 'mpg' not found
```

```
getwd()
```

```
## [1] "C:/Users/steve/Documents/lapso-worksheetactivity/worksheet#4"
```

```
setwd("C:/Users/steve/Documents/lapso-worksheetactivity/worksheet#4")
mpg <- read.csv("D:/darlene/CS101/mpg.csv")
head(mpg)
```

```
##   X manufacturer model displ year cyl      trans drv cty hwy fl   class
## 1 1         audi    a4   1.8 1999   4   auto(l5)   f  18  29  p compact
## 2 2         audi    a4   1.8 1999   4 manual(m5)   f  21  29  p compact
## 3 3         audi    a4   2.0 2008   4 manual(m6)   f  20  31  p compact
## 4 4         audi    a4   2.0 2008   4   auto(av)   f  21  30  p compact
## 5 5         audi    a4   2.8 1999   6   auto(l5)   f  16  26  p compact
## 6 6         audi    a4   2.8 1999   6 manual(m5)   f  18  26  p compact
```

b. Which variables from mpg dataset are categorical?

```
library(ggplot2)
```

```
##
## Attaching package: 'ggplot2'
```

```
## The following object is masked _by_ '.GlobalEnv':
##
##     mpg
```

```
data(mpg)
str(mpg)
```

```
## tibble [234 x 11] (S3: tbl_df/tbl/data.frame)
##  $ manufacturer: chr [1:234] "audi" "audi" "audi" "audi" ...
##  $ model       : chr [1:234] "a4" "a4" "a4" "a4" ...
##  $ displ       : num [1:234] 1.8 1.8 2 2 2.8 2.8 3.1 1.8 1.8 2 ...
##  $ year        : int [1:234] 1999 1999 2008 2008 1999 1999 2008 1999 1999 2008 ...
##  $ cyl         : int [1:234] 4 4 4 4 6 6 6 4 4 4 ...
##  $ trans       : chr [1:234] "auto(l5)" "manual(m5)" "manual(m6)" "auto(av)" ...
##  $ drv         : chr [1:234] "f" "f" "f" "f" ...
##  $ cty         : int [1:234] 18 21 20 21 16 18 18 18 16 20 ...
##  $ hwy         : int [1:234] 29 29 31 30 26 26 27 26 25 28 ...
##  $ fl          : chr [1:234] "p" "p" "p" "p" ...
##  $ class       : chr [1:234] "compact" "compact" "compact" "compact" ...
```

#1b. 'manufacturer' shows different kinds of vehicle manufacturer, 'model' shows different model of a vehicles 'drv' shows different types of drive (e.g., front-wheel drive, rear-wheel drive) 'fl' shows fuel types used by vehicles.

   c. Which are continuous variables? #1c in the mpg dataset, the continuous variables are those shown as numbers (like engine displacement in liters for 'displ'). Additionally, there are other number-based variables like 'hwy' and 'cty' (representing miles per gallon on the highway and in the city), along with 'year'. However, these numeric variables might not be purely continuous; some, like 'year', could represent categories or ordered values rather than a smooth range of numbers.

2.1 Which manufacturer has the most models in this data set? Which model has the most variations? Show your answer

```
mostManu <- names(sort(table(mpg$manufacturer), decreasing = TRUE))[1]
mostVar <- names(sort(table(mpg$model), decreasing = TRUE))[1]
```

```
mostManu
```

```
## [1] "dodge"
```

```
mostVar
```

```
## [1] "caravan 2wd"
```

   a. Group the manufacturers and find the unique models. Show your codes and result

```
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
```

```
uniqueModMan <- mpg %>%
  group_by(manufacturer) %>%
  summarize(unique_models = n_distinct(model))
uniqueModMan
```

```
## # A tibble: 15 x 2
##    manufacturer unique_models
##    <chr>                <int>
##  1 audi                     3
##  2 chevrolet                4
##  3 dodge                    4
##  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
## 13 subaru                   2
## 14 toyota                   6
## 15 volkswagen               4
```

b. Graph the result by using plot() and ggplot(). Write the codes and its result

```
library(ggplot2)
ggplot(uniqueModMan, aes(x = manufacturer, y = unique_models)) +
  geom_bar(stat = "identity", fill = "beige", color = "black") +
  labs(x = "Manufacturer", y = "Unique Models",
       title = "Unique Models by Manufacturer using ggplot") +
  theme_minimal()
```

Unique Models by Manufacturer using ggplot
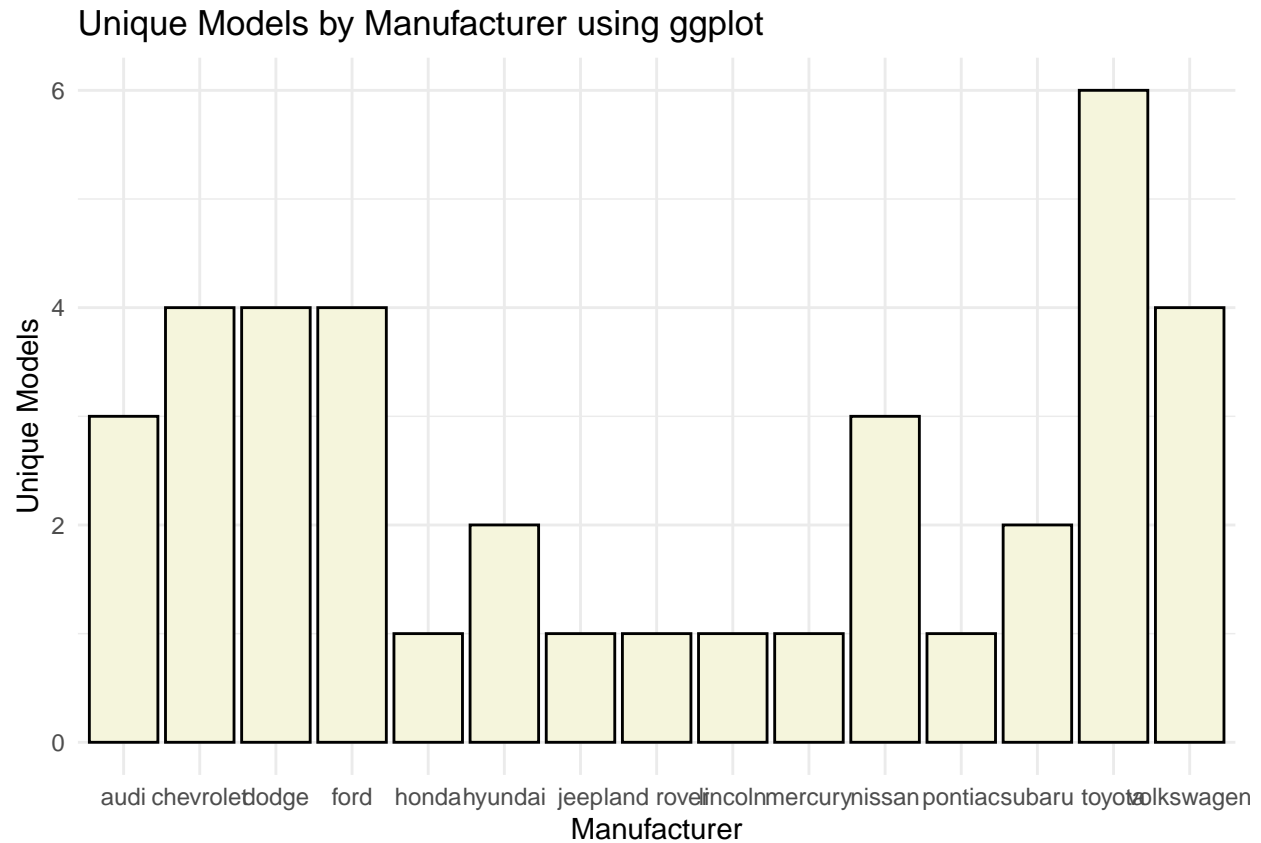
2.2 a. What does ggplot(mpg, aes(model, manufacturer)) + geom_point() show?

```
library(ggplot2)
pointsMPG <- ggplot(mpg, aes(model, manufacturer)) +
  geom_point() +
  labs(x = "Model", y = "Manufacturer",
       title = "Relationship between Model and Manufacturer")
pointsMPG
```

Relationship between Model and Manufacturer

This plot could display how car models are spread out among various manufacturers or how particular models are distributed across different manufacturers. Yet, due to potential overlapping points or the categorical nature of the variables, it might not offer a clear or meaningful representation of the direct relationship between the model and the manufacturer.

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

I think the plot isn't very helpful because it might have overlapping points, making it hard to see how car models relate to manufacturers.

What I could do to do it more is to group/combine data or use a different geom graph.

---

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

```
library(ggplot2)
top_20 <- head(mpg, 20)
ggplot(top_20, aes(x = year, y = model)) +
  geom_point() +
  labs(x = "Year", y = "Model", title = "Top 20 Observations: Model vs Year")
```

Top 20 Observations: Model vs Year
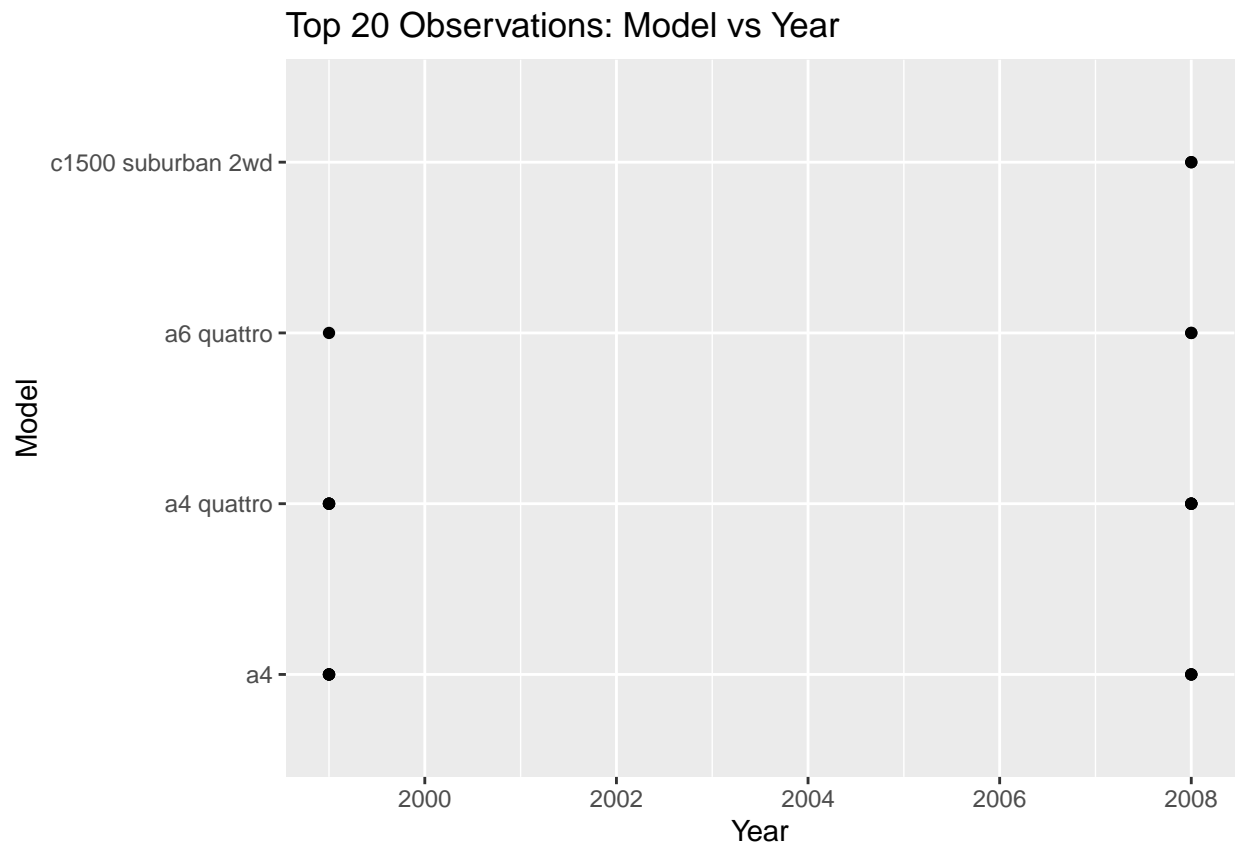
4. Using the pipe (%>%), group the model and get the number of cars per model. Show codes and its result

```r
library(dplyr)

cars_per_model <- mpg %>%
  group_by(model) %>%
  summarize(num_cars = n())

cars_per_model
```

```
## # A tibble: 38 x 2
##    model              num_cars
##    <chr>                 <int>
##  1 4runner 4wd               6
##  2 a4                        7
##  3 a4 quattro                8
##  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. Plot using geom_bar() using the top 20 observations only. The graphs should have a title, labels and colors. Show code and results.

```
library(ggplot2)

model_counts <- mpg %>%
  group_by(model) %>%
  summarise(Num_Cars = n()) %>%
  top_n(20, Num_Cars)


ggplot(model_counts, aes(x = Num_Cars, y = reorder(model, Num_Cars), fill = model)) +
  geom_bar(stat = "identity") +
  scale_fill_manual(values = rainbow(nrow(model_counts))) +
  labs(x = "Number of Cars", y = "Model", title = "Number of Cars per Model (Top 20)") +
  theme(axis.text.y = element_text(angle = 0))
```
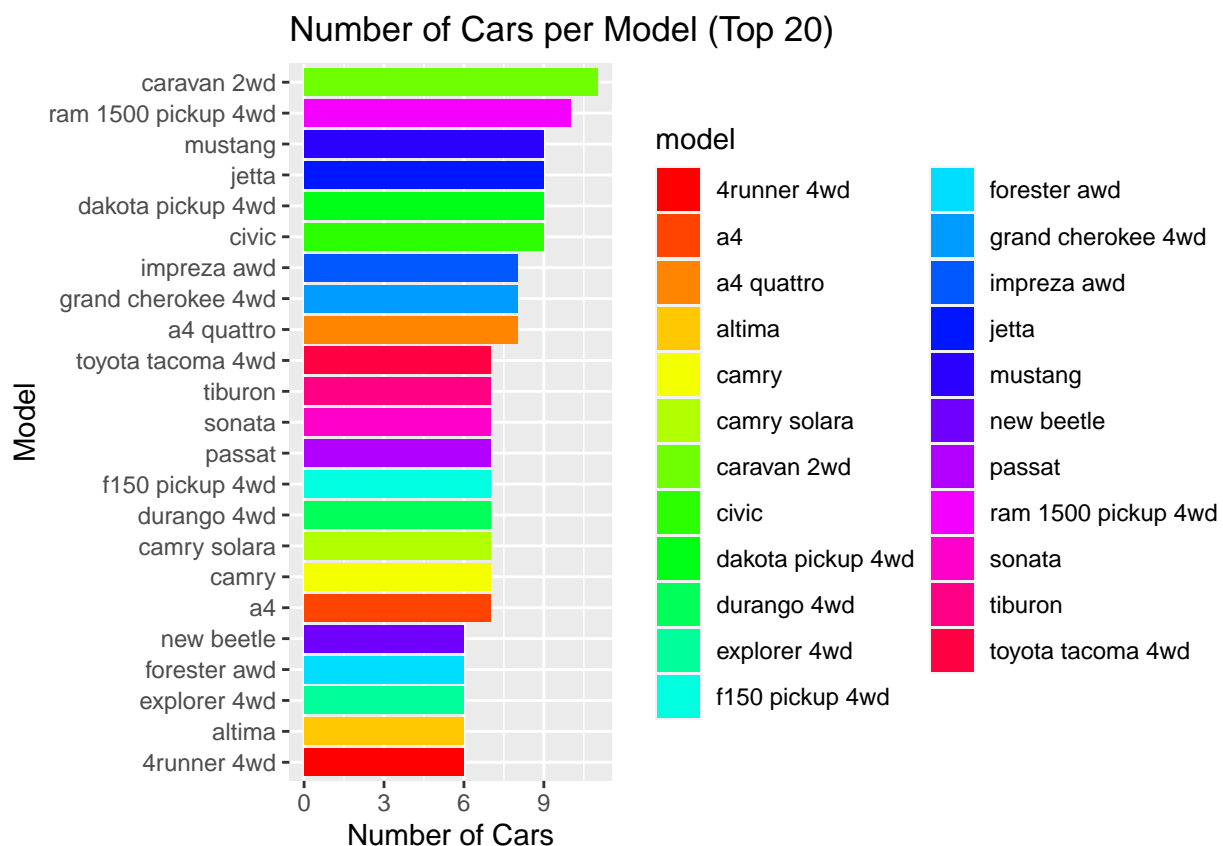

b. Plot using the geom_bar() + coord_flip() just like what is shown below. Show codes and its result.

```
top_20 <- head(mpg, 20)
ggplot(top_20, aes(x = model, fill = model)) +
```

```
geom_bar() +
labs(x = "Count", y = "Model", fill = "Model",
     title = "Top 20 Car Models Count (Horizontal)") +
coord_flip() +
theme(axis.text.y = element_text(hjust = 1)) +
scale_fill_brewer(palette = "Set3")
```

Top 20 Car Models Count (Horizontal)
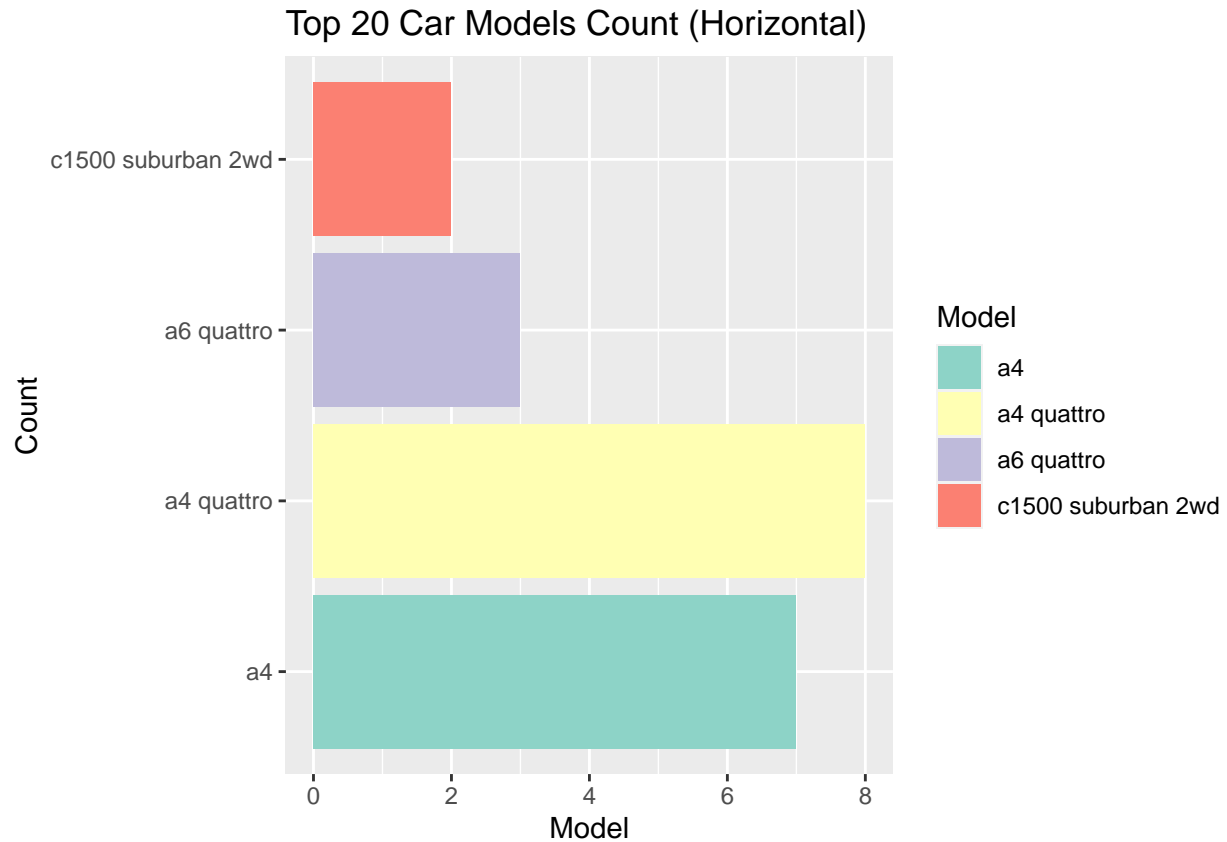
5. Plot the relationship between cyl - number of cylinders and displ - engine displacement using geom_point with aesthetic color = engine displacement. Title should be "Relationship between No. of Cylinders and Engine Displacement".

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

Relationship between No. of Cylinders and Engine Displacement
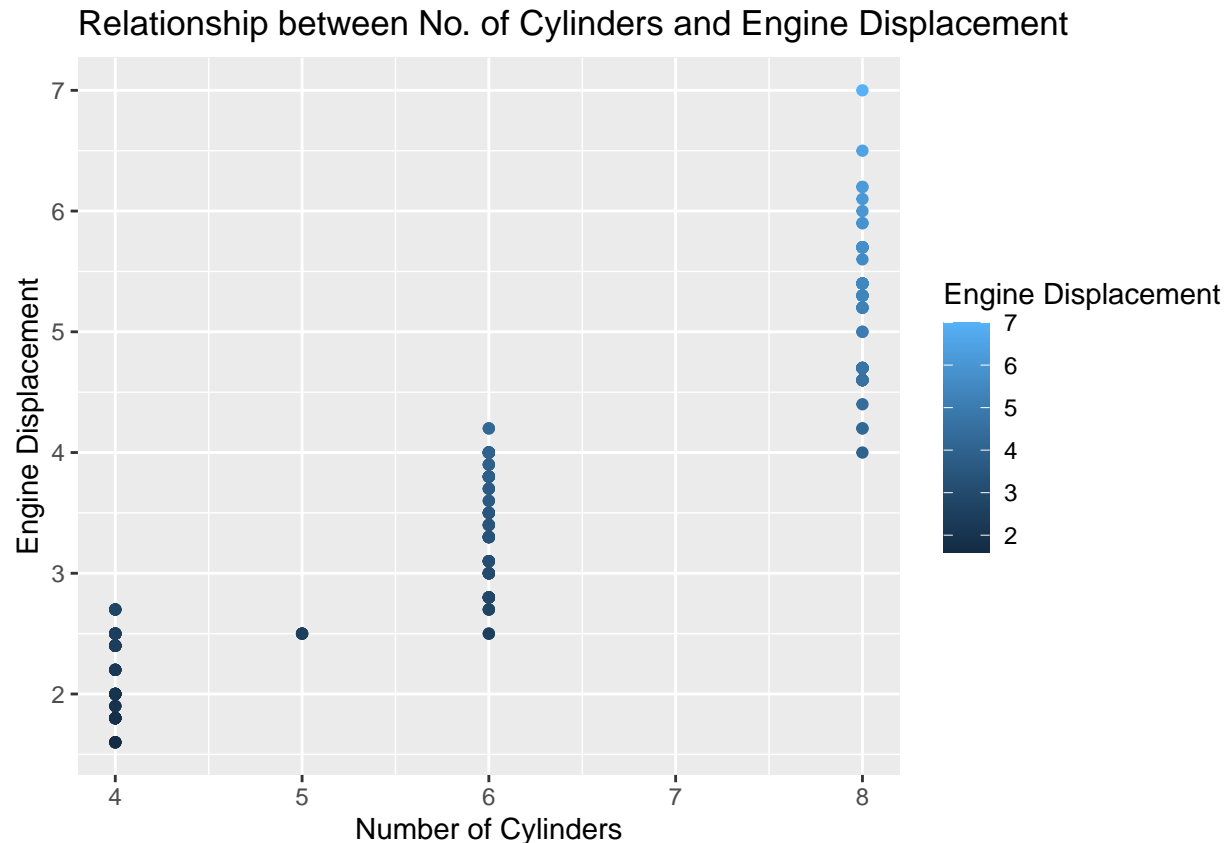
a. How would you describe its relationship? Show the codes and its result.

When working with categorical variables like 'model' and 'year', a bar plot might not effectively illustrate their direct relationship. However, by displaying the counts for each unique pairing of 'model' and 'year', we can identify patterns or frequencies within this constrained data set.

---

6. 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?

```
library(ggplot2)
data(mpg)

mpg$year <- as.factor(mpg$year)

ggplot(mpg, aes(x = displ, y = hwy, color = year)) +
  geom_point() +
  labs(x = "Engine Displacement", y = "Highway MPG",
       title = "Relationship between Displacement and Highway MPG\nMapped with Year") +
  scale_color_brewer(palette = "RdYlBu")
```

Relationship between Displacement and Highway MPG Mapped with Year
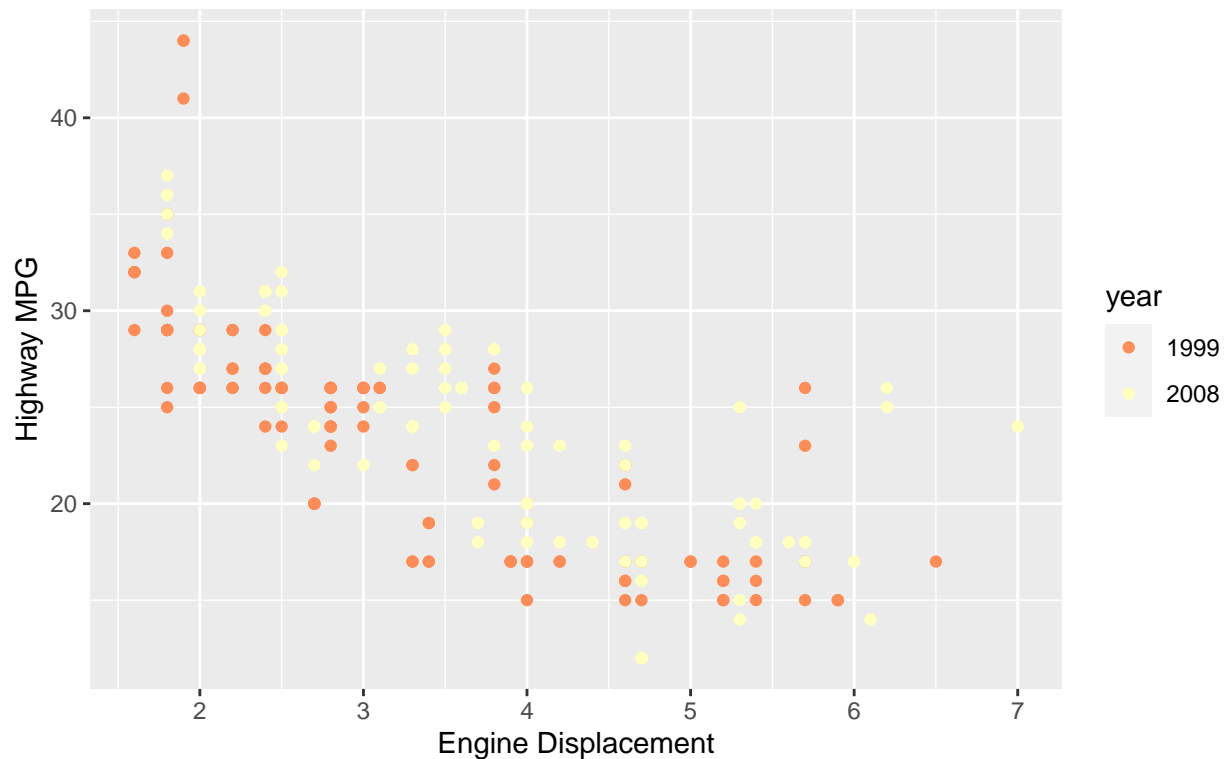
6. Import the traffic.csv onto your R environment.

```
library(readr)
getwd
```

```
## function ()
## .Internal(getwd())
## <bytecode: 0x0000027cc2ec62e8>
## <environment: namespace:base>
```

```
setwd("C:/Users/steve/Documents/lapso-worksheetactivity/worksheet#4")
traffic <- read.csv("D:/darlene/CS101/traffic.csv", header = TRUE, sep = ",")
traffic
```

```
##                   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    2015-11-02 16:00:00     1     27 20151102161
## 42    2015-11-02 17:00:00     1     27 20151102171
## 43    2015-11-02 18:00:00     1     24 20151102181
## 44    2015-11-02 19:00:00     1     26 20151102191
## 45    2015-11-02 20:00:00     1     29 20151102201
## 46    2015-11-02 21:00:00     1     32 20151102211
## 47    2015-11-02 22:00:00     1     30 20151102221
## 48    2015-11-02 23:00:00     1     27 20151102231
## 49    2015-11-03 00:00:00     1     21 20151103001
## 50    2015-11-03 01:00:00     1     18 20151103011
## 51    2015-11-03 02:00:00     1     19 20151103021
## 52    2015-11-03 03:00:00     1     13 20151103031
## 53    2015-11-03 04:00:00     1     11 20151103041
## 54    2015-11-03 05:00:00     1     11 20151103051
## 55    2015-11-03 06:00:00     1     11 20151103061
## 56    2015-11-03 07:00:00     1     14 20151103071
## 57    2015-11-03 08:00:00     1     15 20151103081
## 58    2015-11-03 09:00:00     1     29 20151103091
## 59    2015-11-03 10:00:00     1     33 20151103101
## 60    2015-11-03 11:00:00     1     32 20151103111
## 61    2015-11-03 12:00:00     1     32 20151103121
```

```
## 62    2015-11-03 13:00:00         1      29 20151103131
## 63    2015-11-03 14:00:00         1      27 20151103141
## 64    2015-11-03 15:00:00         1      26 20151103151
## 65    2015-11-03 16:00:00         1      28 20151103161
## 66    2015-11-03 17:00:00         1      26 20151103171
## 67    2015-11-03 18:00:00         1      25 20151103181
## 68    2015-11-03 19:00:00         1      29 20151103191
## 69    2015-11-03 20:00:00         1      26 20151103201
## 70    2015-11-03 21:00:00         1      24 20151103211
## 71    2015-11-03 22:00:00         1      25 20151103221
## 72    2015-11-03 23:00:00         1      20 20151103231
## 73    2015-11-04 00:00:00         1      18 20151104001
## 74    2015-11-04 01:00:00         1      18 20151104011
## 75    2015-11-04 02:00:00         1      13 20151104021
## 76    2015-11-04 03:00:00         1      13 20151104031
## 77    2015-11-04 04:00:00         1      10 20151104041
## 78    2015-11-04 05:00:00         1      12 20151104051
## 79    2015-11-04 06:00:00         1      13 20151104061
## 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
## 83    2015-11-04 10:00:00         1      26 20151104101
## 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
## 87    2015-11-04 14:00:00         1      23 20151104141
## 88    2015-11-04 15:00:00         1      26 20151104151
## 89    2015-11-04 16:00:00         1      26 20151104161
## 90    2015-11-04 17:00:00         1      24 20151104171
## 91    2015-11-04 18:00:00         1      23 20151104181
## 92    2015-11-04 19:00:00         1      25 20151104191
## 93    2015-11-04 20:00:00         1      26 20151104201
## 94    2015-11-04 21:00:00         1      24 20151104211
## 95    2015-11-04 22:00:00         1      26 20151104221
## 96    2015-11-04 23:00:00         1      24 20151104231
## 97    2015-11-05 00:00:00         1      19 20151105001
## 98    2015-11-05 01:00:00         1      20 20151105011
## 99    2015-11-05 02:00:00         1      18 20151105021
## 100   2015-11-05 03:00:00         1      13 20151105031
## 101   2015-11-05 04:00:00         1      13 20151105041
## 102   2015-11-05 05:00:00         1       9 20151105051
## 103   2015-11-05 06:00:00         1      12 20151105061
## 104   2015-11-05 07:00:00         1      12 20151105071
## 105   2015-11-05 08:00:00         1      15 20151105081
## 106   2015-11-05 09:00:00         1      16 20151105091
## 107   2015-11-05 10:00:00         1      23 20151105101
## 108   2015-11-05 11:00:00         1      24 20151105111
## 109   2015-11-05 12:00:00         1      25 20151105121
## 110   2015-11-05 13:00:00         1      24 20151105131
## 111   2015-11-05 14:00:00         1      26 20151105141
## 112   2015-11-05 15:00:00         1      22 20151105151
## 113   2015-11-05 16:00:00         1      20 20151105161
## 114   2015-11-05 17:00:00         1      20 20151105171
## 115   2015-11-05 18:00:00         1      22 20151105181
```

```
## 116   2015-11-05 19:00:00          1        26 20151105191
## 117   2015-11-05 20:00:00          1        22 20151105201
## 118   2015-11-05 21:00:00          1        21 20151105211
## 119   2015-11-05 22:00:00          1        21 20151105221
## 120   2015-11-05 23:00:00          1        21 20151105231
## 121   2015-11-06 00:00:00          1        16 20151106001
## 122   2015-11-06 01:00:00          1        18 20151106011
## 123   2015-11-06 02:00:00          1        19 20151106021
## 124   2015-11-06 03:00:00          1        14 20151106031
## 125   2015-11-06 04:00:00          1        12 20151106041
## 126   2015-11-06 05:00:00          1        13 20151106051
## 127   2015-11-06 06:00:00          1        14 20151106061
## 128   2015-11-06 07:00:00          1        14 20151106071
## 129   2015-11-06 08:00:00          1        13 20151106081
## 130   2015-11-06 09:00:00          1        20 20151106091
## 131   2015-11-06 10:00:00          1        22 20151106101
## 132   2015-11-06 11:00:00          1        26 20151106111
## 133   2015-11-06 12:00:00          1        26 20151106121
## 134   2015-11-06 13:00:00          1        21 20151106131
## 135   2015-11-06 14:00:00          1        23 20151106141
## 136   2015-11-06 15:00:00          1        23 20151106151
## 137   2015-11-06 16:00:00          1        19 20151106161
## 138   2015-11-06 17:00:00          1        19 20151106171
## 139   2015-11-06 18:00:00          1        20 20151106181
## 140   2015-11-06 19:00:00          1        24 20151106191
## 141   2015-11-06 20:00:00          1        18 20151106201
## 142   2015-11-06 21:00:00          1        19 20151106211
## 143   2015-11-06 22:00:00          1        16 20151106221
## 144   2015-11-06 23:00:00          1        17 20151106231
## 145   2015-11-07 00:00:00          1        16 20151107001
## 146   2015-11-07 01:00:00          1        16 20151107011
## 147   2015-11-07 02:00:00          1        10 20151107021
## 148   2015-11-07 03:00:00          1         9 20151107031
## 149   2015-11-07 04:00:00          1         8 20151107041
## 150   2015-11-07 05:00:00          1         7 20151107051
## 151   2015-11-07 06:00:00          1         9 20151107061
## 152   2015-11-07 07:00:00          1         8 20151107071
## 153   2015-11-07 08:00:00          1        12 20151107081
## 154   2015-11-07 09:00:00          1        13 20151107091
## 155   2015-11-07 10:00:00          1        17 20151107101
## 156   2015-11-07 11:00:00          1        14 20151107111
## 157   2015-11-07 12:00:00          1        14 20151107121
## 158   2015-11-07 13:00:00          1        14 20151107131
## 159   2015-11-07 14:00:00          1        14 20151107141
## 160   2015-11-07 15:00:00          1        11 20151107151
## 161   2015-11-07 16:00:00          1        15 20151107161
## 162   2015-11-07 17:00:00          1        13 20151107171
## 163   2015-11-07 18:00:00          1        12 20151107181
## 164   2015-11-07 19:00:00          1        17 20151107191
## 165   2015-11-07 20:00:00          1        18 20151107201
## 166   2015-11-07 21:00:00          1        17 20151107211
## 167   2015-11-07 22:00:00          1        16 20151107221
## 168   2015-11-07 23:00:00          1        15 20151107231
## 169   2015-11-08 00:00:00          1        13 20151108001
```

```
## 170   2015-11-08 01:00:00        1        16 20151108011
## 171   2015-11-08 02:00:00        1        11 20151108021
## 172   2015-11-08 03:00:00        1         8 20151108031
## 173   2015-11-08 04:00:00        1        10 20151108041
## 174   2015-11-08 05:00:00        1        10 20151108051
## 175   2015-11-08 06:00:00        1        10 20151108061
## 176   2015-11-08 07:00:00        1         9 20151108071
## 177   2015-11-08 08:00:00        1        11 20151108081
## 178   2015-11-08 09:00:00        1        12 20151108091
## 179   2015-11-08 10:00:00        1        18 20151108101
## 180   2015-11-08 11:00:00        1        14 20151108111
## 181   2015-11-08 12:00:00        1        17 20151108121
## 182   2015-11-08 13:00:00        1        14 20151108131
## 183   2015-11-08 14:00:00        1        14 20151108141
## 184   2015-11-08 15:00:00        1        14 20151108151
## 185   2015-11-08 16:00:00        1        12 20151108161
## 186   2015-11-08 17:00:00        1        14 20151108171
## 187   2015-11-08 18:00:00        1        18 20151108181
## 188   2015-11-08 19:00:00        1        13 20151108191
## 189   2015-11-08 20:00:00        1        16 20151108201
## 190   2015-11-08 21:00:00        1        18 20151108211
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## 1897   2016-01-19 00:00:00          1       32 20160119001
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## 1901   2016-01-19 04:00:00         1       20 20160119041
## 1902   2016-01-19 05:00:00         1       19 20160119051
## 1903   2016-01-19 06:00:00         1       20 20160119061
## 1904   2016-01-19 07:00:00         1       21 20160119071
## 1905   2016-01-19 08:00:00         1       24 20160119081
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## 1932   2016-01-20 11:00:00         1       38 20160120111
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## 1959   2016-01-21 14:00:00          1       32 20160121141
## 1960   2016-01-21 15:00:00          1       32 20160121151
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## 1977   2016-01-22 08:00:00          1       20 20160122081
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## 1999   2016-01-23 06:00:00          1       14 20160123061
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## 2003   2016-01-23 10:00:00          1       25 20160123101
## 2004   2016-01-23 11:00:00          1       23 20160123111
## 2005   2016-01-23 12:00:00          1       20 20160123121
```

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## 2008   2016-01-23 15:00:00          1          22 20160123151
## 2009   2016-01-23 16:00:00          1          20 20160123161
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## 2029   2016-01-24 12:00:00          1          24 20160124121
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## 2031   2016-01-24 14:00:00          1          21 20160124141
## 2032   2016-01-24 15:00:00          1          17 20160124151
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## 2039   2016-01-24 22:00:00          1          25 20160124221
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## 2044   2016-01-25 03:00:00          1          16 20160125031
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## 2046   2016-01-25 05:00:00          1          12 20160125051
## 2047   2016-01-25 06:00:00          1          15 20160125061
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## 2054   2016-01-25 13:00:00          1          31 20160125131
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## 2057   2016-01-25 16:00:00          1          34 20160125161
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## 2059   2016-01-25 18:00:00          1          32 20160125181
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## 2069   2016-01-26 04:00:00          1       14 20160126041
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## 2075   2016-01-26 10:00:00          1       29 20160126101
## 2076   2016-01-26 11:00:00          1       30 20160126111
## 2077   2016-01-26 12:00:00          1       31 20160126121
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## 2079   2016-01-26 14:00:00          1       23 20160126141
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## 2101   2016-01-27 12:00:00          1       44 20160127121
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## 2106   2016-01-27 17:00:00          1       36 20160127171
## 2107   2016-01-27 18:00:00          1       32 20160127181
## 2108   2016-01-27 19:00:00          1       40 20160127191
## 2109   2016-01-27 20:00:00          1       38 20160127201
## 2110   2016-01-27 21:00:00          1       36 20160127211
## 2111   2016-01-27 22:00:00          1       37 20160127221
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## 2130   2016-01-28 17:00:00        1        36 20160128171
## 2131   2016-01-28 18:00:00        1        36 20160128181
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## 2165   2016-01-30 04:00:00        1        18 20160130041
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## 2174   2016-01-30 13:00:00         1       18 20160130131
## 2175   2016-01-30 14:00:00         1       24 20160130141
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## 2187   2016-01-31 02:00:00         1       19 20160131021
## 2188   2016-01-31 03:00:00         1       16 20160131031
## 2189   2016-01-31 04:00:00         1       14 20160131041
## 2190   2016-01-31 05:00:00         1       13 20160131051
## 2191   2016-01-31 06:00:00         1       11 20160131061
## 2192   2016-01-31 07:00:00         1       10 20160131071
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## 2200   2016-01-31 15:00:00         1       19 20160131151
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## 2202   2016-01-31 17:00:00         1       19 20160131171
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## 2204   2016-01-31 19:00:00         1       29 20160131191
## 2205   2016-01-31 20:00:00         1       27 20160131201
## 2206   2016-01-31 21:00:00         1       29 20160131211
## 2207   2016-01-31 22:00:00         1       26 20160131221
## 2208   2016-01-31 23:00:00         1       27 20160131231
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## 2210   2016-02-01 01:00:00         1       19 20160201011
## 2211   2016-02-01 02:00:00         1       21 20160201021
## 2212   2016-02-01 03:00:00         1       17 20160201031
## 2213   2016-02-01 04:00:00         1       12 20160201041
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## 2215   2016-02-01 06:00:00         1       12 20160201061
## 2216   2016-02-01 07:00:00         1       17 20160201071
## 2217   2016-02-01 08:00:00         1       19 20160201081
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## 2219   2016-02-01 10:00:00         1       38 20160201101
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## 2221   2016-02-01 12:00:00         1       40 20160201121
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## 2772   2016-02-24 11:00:00        1        45 20160224111
## 2773   2016-02-24 12:00:00        1        45 20160224121
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## 3733   2016-04-04 12:00:00          1          50 20160404121
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## 3744   2016-04-04 23:00:00          1         41 20160404231
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## 4078   2016-04-18 21:00:00          1          43 20160418211
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## 4165   2016-04-22 12:00:00           1        41 20160422121
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## 4912   2016-05-23 15:00:00          1     56 20160523151
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## 4914   2016-05-23 17:00:00          1     55 20160523171
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## 4981  2016-05-26 12:00:00          1      48 20160526121
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## 9934   2016-12-18 21:00:00        1      51 20161218211
## 9935   2016-12-18 22:00:00        1      50 20161218221
## 9936   2016-12-18 23:00:00        1      54 20161218231
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## 9948   2016-12-19 11:00:00          1         79 20161219111
## 9949   2016-12-19 12:00:00          1         91 20161219121
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## 9952   2016-12-19 15:00:00          1         88 20161219151
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## 9997   2016-12-21 12:00:00          1         82 20161221121
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## 10004 2016-12-21 19:00:00         1     79 20161221191
## 10005 2016-12-21 20:00:00         1     79 20161221201
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## 10031 2016-12-22 22:00:00         1     62 20161222221
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## 10036 2016-12-23 03:00:00         1     33 20161223031
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## 10051 2016-12-23 18:00:00         1     57 20161223181
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## 10213 2016-12-30 12:00:00          1       63 20161230121
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## 10217 2016-12-30 16:00:00            1       53 20161230161
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## 10642 2017-01-17 09:00:00          1         63 20170117091
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## 10645 2017-01-17 12:00:00          1         89 20170117121
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## 10858 2017-01-26 09:00:00          1        45 20170126091
## 10859 2017-01-26 10:00:00          1        48 20170126101
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## 10861 2017-01-26 12:00:00          1        57 20170126121
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## 11347 2017-02-15 18:00:00           1         79 20170215181
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## 12481 2017-04-04 00:00:00          1         73 20170404001
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## 12582 2017-04-08 05:00:00        1       26 20170408051
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## 12593 2017-04-08 16:00:00          1           52 20170408161
## 12594 2017-04-08 17:00:00          1           50 20170408171
## 12595 2017-04-08 18:00:00          1           59 20170408181
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## 12613 2017-04-09 12:00:00          1           56 20170409121
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## 12627 2017-04-10 02:00:00          1           43 20170410021
## 12628 2017-04-10 03:00:00          1           35 20170410031
## 12629 2017-04-10 04:00:00          1           32 20170410041
## 12630 2017-04-10 05:00:00          1           33 20170410051
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## 12665 2017-04-11 16:00:00        1       91 20170411161
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## 12684 2017-04-12 11:00:00        1       89 20170412111
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## 12693 2017-04-12 20:00:00        1       87 20170412201
## 12694 2017-04-12 21:00:00        1       83 20170412211
## 12695 2017-04-12 22:00:00        1       83 20170412221
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## 12697 2017-04-13 00:00:00        1       73 20170413001
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## 12702 2017-04-13 05:00:00          1        36 20170413051
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## 12704 2017-04-13 07:00:00          1        46 20170413071
## 12705 2017-04-13 08:00:00          1        50 20170413081
## 12706 2017-04-13 09:00:00          1        58 20170413091
## 12707 2017-04-13 10:00:00          1        80 20170413101
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## 12711 2017-04-13 14:00:00          1        84 20170413141
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## 12725 2017-04-14 04:00:00          1        33 20170414041
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## 12733 2017-04-14 12:00:00          1        69 20170414121
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## 12751 2017-04-15 06:00:00          1        27 20170415061
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## 12805 2017-04-17 12:00:00          1      89 20170417121
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## 12867 2017-04-20 02:00:00          1       54 20170420021
## 12868 2017-04-20 03:00:00          1       44 20170420031
## 12869 2017-04-20 04:00:00          1       38 20170420041
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## 12918 2017-04-22 05:00:00          1        26 20170422051
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## 12920 2017-04-22 07:00:00          1        32 20170422071
## 12921 2017-04-22 08:00:00          1        38 20170422081
## 12922 2017-04-22 09:00:00          1        41 20170422091
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## 12952 2017-04-23 15:00:00          1        53 20170423151
## 12953 2017-04-23 16:00:00          1        49 20170423161
## 12954 2017-04-23 17:00:00          1        54 20170423171
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## 12966 2017-04-24 05:00:00          1        35 20170424051
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## 12973 2017-04-24 12:00:00          1      97 20170424121
## 12974 2017-04-24 13:00:00          1      89 20170424131
## 12975 2017-04-24 14:00:00          1      93 20170424141
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## 12977 2017-04-24 16:00:00          1      87 20170424161
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## 12993 2017-04-25 08:00:00          1      57 20170425081
## 12994 2017-04-25 09:00:00          1      69 20170425091
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## 12998 2017-04-25 13:00:00          1      85 20170425131
## 12999 2017-04-25 14:00:00          1      93 20170425141
## 13000 2017-04-25 15:00:00          1      87 20170425151
## 13001 2017-04-25 16:00:00          1      88 20170425161
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## 13004 2017-04-25 19:00:00          1      94 20170425191
## 13005 2017-04-25 20:00:00          1      93 20170425201
## 13006 2017-04-25 21:00:00          1      89 20170425211
## 13007 2017-04-25 22:00:00          1      83 20170425221
## 13008 2017-04-25 23:00:00          1      79 20170425231
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## 13053 2017-04-27 20:00:00          1          87 20170427201
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## 13055 2017-04-27 22:00:00          1          79 20170427221
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## 13069 2017-04-28 12:00:00          1          78 20170428121
## 13070 2017-04-28 13:00:00          1          73 20170428131
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## 13073 2017-04-28 16:00:00          1          70 20170428161
## 13074 2017-04-28 17:00:00          1          68 20170428171
## 13075 2017-04-28 18:00:00          1          68 20170428181
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## 13387 2017-05-11 18:00:00          1     111 20170511181
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## 13395 2017-05-12 02:00:00          1      65 20170512021
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## 13410 2017-05-12 17:00:00       1      83 20170512171
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## 13773 2017-05-27 20:00:00          1       69 20170527201
## 13774 2017-05-27 21:00:00          1       63 20170527211
## 13775 2017-05-27 22:00:00          1       62 20170527221
## 13776 2017-05-27 23:00:00          1       58 20170527231
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## 13831 2017-05-30 06:00:00          1        42 20170530061
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## 13865 2017-05-31 16:00:00         1      97 20170531161
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## 13946 2017-06-04 01:00:00          1    39 20170604011
## 13947 2017-06-04 02:00:00          1    37 20170604021
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## 13979 2017-06-05 10:00:00          1    84 20170605101
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## 14215 2017-06-15 06:00:00            1       47 20170615061
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## 14321 2017-06-19 16:00:00          1          104 20170619161
## 14322 2017-06-19 17:00:00          1          108 20170619171
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## 14325 2017-06-19 20:00:00          1          107 20170619201
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## 14359 2017-06-21 06:00:00          1           44 20170621061
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## 14371 2017-06-21 18:00:00          1          105 20170621181
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## 14495 2017-06-26 22:00:00          1       99 20170626221
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## 17503 2016-03-01 06:00:00          2          7 20160301062
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334

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## 18089 2016-03-25 16:00:00          2           9 20160325162
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## 18097 2016-03-26 00:00:00          2          10 20160326002
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## 18103 2016-03-26 06:00:00          2         5 20160326062
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## 18105 2016-03-26 08:00:00          2         4 20160326082
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## 18151 2016-03-28 06:00:00          2        11 20160328062
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## 18176 2016-03-29 07:00:00      2      10 20160329072
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## 18191 2016-03-29 22:00:00      2      16 20160329222
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## 18201 2016-03-30 08:00:00      2      11 20160330082
## 18202 2016-03-30 09:00:00      2      11 20160330092
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## 18244 2016-04-01 03:00:00      2       8 20160401032
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## 18259 2016-04-01 18:00:00      2      14 20160401182
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## 18290 2016-04-03 01:00:00          2           7 20160403012
## 18291 2016-04-03 02:00:00          2           8 20160403022
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## 18294 2016-04-03 05:00:00          2           7 20160403052
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## 18298 2016-04-03 09:00:00          2           8 20160403092
## 18299 2016-04-03 10:00:00          2           9 20160403102
## 18300 2016-04-03 11:00:00          2           8 20160403112
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## 18691 2016-04-19 18:00:00       2       16 20160419182
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## 18907 2016-04-28 18:00:00        2      16 20160428182
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## 19069 2016-05-05 12:00:00          2          12 20160505122
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## 19254 2016-05-13 05:00:00          2           7 20160513052
## 19255 2016-05-13 06:00:00          2          10 20160513062
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## 19271 2016-05-13 22:00:00          2          20 20160513222
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## 19278 2016-05-14 05:00:00          2           5 20160514052
## 19279 2016-05-14 06:00:00          2           5 20160514062
## 19280 2016-05-14 07:00:00          2           8 20160514072
## 19281 2016-05-14 08:00:00          2           6 20160514082
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## 19283 2016-05-14 10:00:00          2           8 20160514102
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## 19291 2016-05-14 18:00:00          2           8 20160514182
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## 19294 2016-05-14 21:00:00          2          11 20160514212
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## 19324 2016-05-16 03:00:00          2           8 20160516032
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## 19339 2016-05-16 18:00:00          2          18 20160516182
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## 19362 2016-05-17 17:00:00       2       12 20160517172
## 19363 2016-05-17 18:00:00       2       18 20160517182
## 19364 2016-05-17 19:00:00       2       18 20160517192
## 19365 2016-05-17 20:00:00       2       21 20160517202
## 19366 2016-05-17 21:00:00       2       18 20160517212
## 19367 2016-05-17 22:00:00       2       19 20160517222
## 19368 2016-05-17 23:00:00       2       17 20160517232
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## 19376 2016-05-18 07:00:00       2       10 20160518072
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## 19378 2016-05-18 09:00:00       2       10 20160518092
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## 19391 2016-05-18 22:00:00       2       13 20160518222
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## 19393 2016-05-19 00:00:00       2       17 20160519002
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## 19401 2016-05-19 08:00:00        2       12 20160519082
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## 19445 2016-05-21 04:00:00        2        4 20160521042
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## 19447 2016-05-21 06:00:00        2        3 20160521062
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## 19449 2016-05-21 08:00:00              2        7 20160521082
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## 19452 2016-05-21 11:00:00              2        7 20160521112
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## 19454 2016-05-21 13:00:00              2        6 20160521132
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## 19486 2016-05-22 21:00:00              2       12 20160522212
## 19487 2016-05-22 22:00:00              2        9 20160522222
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## 19492 2016-05-23 03:00:00              2        9 20160523032
## 19493 2016-05-23 04:00:00              2       10 20160523042
## 19494 2016-05-23 05:00:00              2        7 20160523052
## 19495 2016-05-23 06:00:00              2        7 20160523062
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## 19500 2016-05-23 11:00:00              2       16 20160523112
## 19501 2016-05-23 12:00:00              2       12 20160523122
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## 19505 2016-05-23 16:00:00         2      17 20160523162
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## 19535 2016-05-24 22:00:00         2      15 20160524222
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## 19542 2016-05-25 05:00:00         2      10 20160525052
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## 19545 2016-05-25 08:00:00         2      11 20160525082
## 19546 2016-05-25 09:00:00         2      13 20160525092
## 19547 2016-05-25 10:00:00         2      13 20160525102
## 19548 2016-05-25 11:00:00         2      15 20160525112
## 19549 2016-05-25 12:00:00         2      16 20160525122
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## 19551 2016-05-25 14:00:00         2      19 20160525142
## 19552 2016-05-25 15:00:00         2      15 20160525152
## 19553 2016-05-25 16:00:00         2      17 20160525162
## 19554 2016-05-25 17:00:00         2      16 20160525172
## 19555 2016-05-25 18:00:00         2      14 20160525182
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## 19557 2016-05-25 20:00:00        2        17 20160525202
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## 19559 2016-05-25 22:00:00        2        17 20160525222
## 19560 2016-05-25 23:00:00        2        14 20160525232
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## 19562 2016-05-26 01:00:00        2        12 20160526012
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## 19587 2016-05-27 02:00:00        2         9 20160527022
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## 19589 2016-05-27 04:00:00        2         8 20160527042
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## 19594 2016-05-27 09:00:00        2        10 20160527092
## 19595 2016-05-27 10:00:00        2        13 20160527102
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## 19600 2016-05-27 15:00:00        2        17 20160527152
## 19601 2016-05-27 16:00:00        2        16 20160527162
## 19602 2016-05-27 17:00:00        2        15 20160527172
## 19603 2016-05-27 18:00:00        2        14 20160527182
## 19604 2016-05-27 19:00:00        2        17 20160527192
## 19605 2016-05-27 20:00:00        2        17 20160527202
## 19606 2016-05-27 21:00:00        2        13 20160527212
## 19607 2016-05-27 22:00:00        2        14 20160527222
## 19608 2016-05-27 23:00:00        2        14 20160527232
## 19609 2016-05-28 00:00:00        2         9 20160528002
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## 19614 2016-05-28 05:00:00          2          4 20160528052
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## 19618 2016-05-28 09:00:00          2          7 20160528092
## 19619 2016-05-28 10:00:00          2         10 20160528102
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## 19628 2016-05-28 19:00:00          2         11 20160528192
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## 19631 2016-05-28 22:00:00          2         11 20160528222
## 19632 2016-05-28 23:00:00          2          8 20160528232
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## 19634 2016-05-29 01:00:00          2          6 20160529012
## 19635 2016-05-29 02:00:00          2          8 20160529022
## 19636 2016-05-29 03:00:00          2          6 20160529032
## 19637 2016-05-29 04:00:00          2          7 20160529042
## 19638 2016-05-29 05:00:00          2          6 20160529052
## 19639 2016-05-29 06:00:00          2          5 20160529062
## 19640 2016-05-29 07:00:00          2          5 20160529072
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## 19642 2016-05-29 09:00:00          2          4 20160529092
## 19643 2016-05-29 10:00:00          2         10 20160529102
## 19644 2016-05-29 11:00:00          2         10 20160529112
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## 19648 2016-05-29 15:00:00          2          7 20160529152
## 19649 2016-05-29 16:00:00          2         11 20160529162
## 19650 2016-05-29 17:00:00          2          8 20160529172
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## 19652 2016-05-29 19:00:00          2         10 20160529192
## 19653 2016-05-29 20:00:00          2         11 20160529202
## 19654 2016-05-29 21:00:00          2         12 20160529212
## 19655 2016-05-29 22:00:00          2         11 20160529222
## 19656 2016-05-29 23:00:00          2          8 20160529232
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## 19658 2016-05-30 01:00:00          2          8 20160530012
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## 19660 2016-05-30 03:00:00          2          6 20160530032
## 19661 2016-05-30 04:00:00          2          7 20160530042
## 19662 2016-05-30 05:00:00          2          6 20160530052
## 19663 2016-05-30 06:00:00          2          7 20160530062
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## 19684 2016-05-31 03:00:00          2        7 20160531032
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## 19688 2016-05-31 07:00:00          2        5 20160531072
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## 19690 2016-05-31 09:00:00          2        8 20160531092
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## 19693 2016-05-31 12:00:00          2       15 20160531122
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## 19697 2016-05-31 16:00:00          2       19 20160531162
## 19698 2016-05-31 17:00:00          2       16 20160531172
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## 19702 2016-05-31 21:00:00          2       14 20160531212
## 19703 2016-05-31 22:00:00          2       13 20160531222
## 19704 2016-05-31 23:00:00          2       13 20160531232
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## 19709 2016-06-01 04:00:00          2        8 20160601042
## 19710 2016-06-01 05:00:00          2       10 20160601052
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## 19714 2016-06-01 09:00:00          2        9 20160601092
## 19715 2016-06-01 10:00:00          2       10 20160601102
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## 19717 2016-06-01 12:00:00          2       18 20160601122
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## 19725 2016-06-01 20:00:00        2        16 20160601202
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## 19771 2016-06-03 18:00:00        2        15 20160603182
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## 19879 2016-06-08 06:00:00        2        5 20160608062
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## 19974 2016-06-12 05:00:00          2         5 20160612052
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## 19978 2016-06-12 09:00:00          2         9 20160612092
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## 19980 2016-06-12 11:00:00          2         7 20160612112
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## 20025 2016-06-14 08:00:00      2       8 20160614082
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## 20029 2016-06-14 12:00:00      2      20 20160614122
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## 20959 2016-07-23 06:00:00          2           5 20160723062
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## 20999 2016-07-24 22:00:00        2        13 20160724222
## 21000 2016-07-24 23:00:00        2        10 20160724232
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## 21012 2016-07-25 11:00:00        2        14 20160725112
## 21013 2016-07-25 12:00:00        2        15 20160725122
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## 21106 2016-07-29 09:00:00          2           7 20160729092
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## 21283 2016-08-05 18:00:00        2        3 20160805182
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## 21322 2016-08-07 09:00:00          2          8 20160807092
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## 21335 2016-08-07 22:00:00          2          9 20160807222
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## 21343 2016-08-08 06:00:00          2          7 20160808062
## 21344 2016-08-08 07:00:00          2          6 20160808072
## 21345 2016-08-08 08:00:00          2         10 20160808082
## 21346 2016-08-08 09:00:00          2          9 20160808092
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## 21352 2016-08-08 15:00:00          2         13 20160808152
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## 21389 2016-08-10 04:00:00          2          7 20160810042
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## 21391 2016-08-10 06:00:00          2          8 20160810062
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## 21395 2016-08-10 10:00:00        2         9 20160810102
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## 21398 2016-08-10 13:00:00        2        13 20160810132
## 21399 2016-08-10 14:00:00        2        14 20160810142
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## 21432 2016-08-11 23:00:00        2        14 20160811232
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## 21449 2016-08-12 16:00:00          2          16 20160812162
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## 21553 2016-08-17 00:00:00        2        14 20160817002
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## 21656 2016-08-21 07:00:00        2         5 20160821072
## 21657 2016-08-21 08:00:00        2         4 20160821082
## 21658 2016-08-21 09:00:00        2         5 20160821092
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## 22144 2016-09-10 15:00:00          2           8 20160910152
## 22145 2016-09-10 16:00:00          2          11 20160910162
## 22146 2016-09-10 17:00:00          2          11 20160910172
## 22147 2016-09-10 18:00:00          2           9 20160910182
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## 22174 2016-09-11 21:00:00          2          11 20160911212
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## 22178 2016-09-12 01:00:00          2          12 20160912012
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## 22182 2016-09-12 05:00:00          2           7 20160912052
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## 22184 2016-09-12 07:00:00          2          11 20160912072
## 22185 2016-09-12 08:00:00          2          11 20160912082
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## 22201 2016-09-13 00:00:00          2          15 20160913002
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## 22208 2016-09-13 07:00:00         2        10 20160913072
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## 22213 2016-09-13 12:00:00         2        19 20160913122
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## 22233 2016-09-14 08:00:00         2        11 20160914082
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## 22255 2016-09-15 06:00:00         2         6 20160915062
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## 22305 2016-09-17 08:00:00          2           9 20160917082
## 22306 2016-09-17 09:00:00          2           5 20160917092
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## 22309 2016-09-17 12:00:00          2           9 20160917122
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## 22313 2016-09-17 16:00:00          2           8 20160917162
## 22314 2016-09-17 17:00:00          2          10 20160917172
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## 22316 2016-09-17 19:00:00          2          10 20160917192
## 22317 2016-09-17 20:00:00          2           7 20160917202
## 22318 2016-09-17 21:00:00          2          11 20160917212
## 22319 2016-09-17 22:00:00          2          12 20160917222
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## 22322 2016-09-18 01:00:00          2           6 20160918012
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## 22329 2016-09-18 08:00:00          2          10 20160918082
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## 22332 2016-09-18 11:00:00          2          10 20160918112
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## 22335 2016-09-18 14:00:00          2           9 20160918142
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## 22337 2016-09-18 16:00:00          2          10 20160918162
## 22338 2016-09-18 17:00:00          2           8 20160918172
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## 22342 2016-09-18 21:00:00          2          10 20160918212
## 22343 2016-09-18 22:00:00          2          14 20160918222
## 22344 2016-09-18 23:00:00          2          15 20160918232
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## 22347 2016-09-19 02:00:00          2           9 20160919022
## 22348 2016-09-19 03:00:00          2           8 20160919032
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## 22351 2016-09-19 06:00:00          2           9 20160919062
## 22352 2016-09-19 07:00:00          2           9 20160919072
## 22353 2016-09-19 08:00:00          2          10 20160919082
## 22354 2016-09-19 09:00:00          2          10 20160919092
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## 22357 2016-09-19 12:00:00          2          18 20160919122
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## 22359 2016-09-19 14:00:00          2          18 20160919142
## 22360 2016-09-19 15:00:00          2          17 20160919152
## 22361 2016-09-19 16:00:00          2          18 20160919162
## 22362 2016-09-19 17:00:00          2          17 20160919172
## 22363 2016-09-19 18:00:00          2          16 20160919182
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## 22364 2016-09-19 19:00:00          2         16 20160919192
## 22365 2016-09-19 20:00:00          2         18 20160919202
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## 22367 2016-09-19 22:00:00          2         20 20160919222
## 22368 2016-09-19 23:00:00          2         19 20160919232
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## 22372 2016-09-20 03:00:00          2         13 20160920032
## 22373 2016-09-20 04:00:00          2         10 20160920042
## 22374 2016-09-20 05:00:00          2          8 20160920052
## 22375 2016-09-20 06:00:00          2          9 20160920062
## 22376 2016-09-20 07:00:00          2         11 20160920072
## 22377 2016-09-20 08:00:00          2         11 20160920082
## 22378 2016-09-20 09:00:00          2         11 20160920092
## 22379 2016-09-20 10:00:00          2         12 20160920102
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## 22383 2016-09-20 14:00:00          2         15 20160920142
## 22384 2016-09-20 15:00:00          2         17 20160920152
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## 22386 2016-09-20 17:00:00          2         20 20160920172
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## 22388 2016-09-20 19:00:00          2         21 20160920192
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## 22393 2016-09-21 00:00:00          2         17 20160921002
## 22394 2016-09-21 01:00:00          2         12 20160921012
## 22395 2016-09-21 02:00:00          2         11 20160921022
## 22396 2016-09-21 03:00:00          2         11 20160921032
## 22397 2016-09-21 04:00:00          2         11 20160921042
## 22398 2016-09-21 05:00:00          2          8 20160921052
## 22399 2016-09-21 06:00:00          2         10 20160921062
## 22400 2016-09-21 07:00:00          2          9 20160921072
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## 22402 2016-09-21 09:00:00          2          9 20160921092
## 22403 2016-09-21 10:00:00          2         13 20160921102
## 22404 2016-09-21 11:00:00          2         19 20160921112
## 22405 2016-09-21 12:00:00          2         18 20160921122
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## 22407 2016-09-21 14:00:00          2         21 20160921142
## 22408 2016-09-21 15:00:00          2         18 20160921152
## 22409 2016-09-21 16:00:00          2         18 20160921162
## 22410 2016-09-21 17:00:00          2         17 20160921172
## 22411 2016-09-21 18:00:00          2         17 20160921182
## 22412 2016-09-21 19:00:00          2         20 20160921192
## 22413 2016-09-21 20:00:00          2         17 20160921202
## 22414 2016-09-21 21:00:00          2         20 20160921212
## 22415 2016-09-21 22:00:00          2         16 20160921222
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## 22417 2016-09-22 00:00:00          2         17 20160922002
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## 22422 2016-09-22 05:00:00        2        10 20160922052
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## 22424 2016-09-22 07:00:00        2        10 20160922072
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## 22437 2016-09-22 20:00:00        2        23 20160922202
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## 22450 2016-09-23 09:00:00        2        13 20160923092
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## 22458 2016-09-23 17:00:00        2        16 20160923172
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## 22461 2016-09-23 20:00:00        2        20 20160923202
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## 22463 2016-09-23 22:00:00        2        11 20160923222
## 22464 2016-09-23 23:00:00        2        16 20160923232
## 22465 2016-09-24 00:00:00        2        16 20160924002
## 22466 2016-09-24 01:00:00        2        11 20160924012
## 22467 2016-09-24 02:00:00        2        12 20160924022
## 22468 2016-09-24 03:00:00        2         7 20160924032
## 22469 2016-09-24 04:00:00        2         6 20160924042
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## 22471 2016-09-24 06:00:00        2        10 20160924062
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## 22475 2016-09-24 10:00:00        2          7 20160924102
## 22476 2016-09-24 11:00:00        2          8 20160924112
## 22477 2016-09-24 12:00:00        2          8 20160924122
## 22478 2016-09-24 13:00:00        2          9 20160924132
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## 22480 2016-09-24 15:00:00        2         11 20160924152
## 22481 2016-09-24 16:00:00        2         10 20160924162
## 22482 2016-09-24 17:00:00        2          9 20160924172
## 22483 2016-09-24 18:00:00        2         11 20160924182
## 22484 2016-09-24 19:00:00        2          8 20160924192
## 22485 2016-09-24 20:00:00        2         13 20160924202
## 22486 2016-09-24 21:00:00        2          9 20160924212
## 22487 2016-09-24 22:00:00        2         11 20160924222
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## 22847 2016-10-09 22:00:00        2      13 20161009222
## 22848 2016-10-09 23:00:00        2      11 20161009232
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## 22857 2016-10-10 08:00:00        2        12 20161010082
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## 22903 2016-10-12 06:00:00        2        14 20161012062
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434

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## 23081 2016-10-19 16:00:00        2        22 20161019162
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## 23119 2016-10-21 06:00:00        2        10 20161021062
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## 23166 2016-10-23 05:00:00         2          6 20161023052
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## 23169 2016-10-23 08:00:00         2         11 20161023082
## 23170 2016-10-23 09:00:00         2         13 20161023092
## 23171 2016-10-23 10:00:00         2         10 20161023102
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## 24253 2016-12-07 12:00:00          2          18 20161207122
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## 24685 2016-12-25 12:00:00          2          10 20161225122
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## 24899 2017-01-03 10:00:00          2         16 20170103102
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## 24947 2017-01-05 10:00:00      2      14 20170105102
## 24948 2017-01-05 11:00:00      2      13 20170105112
## 24949 2017-01-05 12:00:00      2      15 20170105122
## 24950 2017-01-05 13:00:00      2      18 20170105132
## 24951 2017-01-05 14:00:00      2      16 20170105142
## 24952 2017-01-05 15:00:00      2      18 20170105152
## 24953 2017-01-05 16:00:00      2      18 20170105162
## 24954 2017-01-05 17:00:00      2      16 20170105172
## 24955 2017-01-05 18:00:00      2      20 20170105182
```

```
## 24956 2017-01-05 19:00:00        2        18 20170105192
## 24957 2017-01-05 20:00:00        2        24 20170105202
## 24958 2017-01-05 21:00:00        2        21 20170105212
## 24959 2017-01-05 22:00:00        2        17 20170105222
## 24960 2017-01-05 23:00:00        2        18 20170105232
## 24961 2017-01-06 00:00:00        2        13 20170106002
## 24962 2017-01-06 01:00:00        2        17 20170106012
## 24963 2017-01-06 02:00:00        2        11 20170106022
## 24964 2017-01-06 03:00:00        2        10 20170106032
## 24965 2017-01-06 04:00:00        2        11 20170106042
## 24966 2017-01-06 05:00:00        2         8 20170106052
## 24967 2017-01-06 06:00:00        2         8 20170106062
## 24968 2017-01-06 07:00:00        2         6 20170106072
## 24969 2017-01-06 08:00:00        2        12 20170106082
## 24970 2017-01-06 09:00:00        2        11 20170106092
## 24971 2017-01-06 10:00:00        2        10 20170106102
## 24972 2017-01-06 11:00:00        2        17 20170106112
## 24973 2017-01-06 12:00:00        2        17 20170106122
## 24974 2017-01-06 13:00:00        2        17 20170106132
## 24975 2017-01-06 14:00:00        2        19 20170106142
## 24976 2017-01-06 15:00:00        2        17 20170106152
## 24977 2017-01-06 16:00:00        2        18 20170106162
## 24978 2017-01-06 17:00:00        2        22 20170106172
## 24979 2017-01-06 18:00:00        2        20 20170106182
## 24980 2017-01-06 19:00:00        2        20 20170106192
## 24981 2017-01-06 20:00:00        2        19 20170106202
## 24982 2017-01-06 21:00:00        2        18 20170106212
## 24983 2017-01-06 22:00:00        2        19 20170106222
## 24984 2017-01-06 23:00:00        2        21 20170106232
## 24985 2017-01-07 00:00:00        2        14 20170107002
## 24986 2017-01-07 01:00:00        2        14 20170107012
## 24987 2017-01-07 02:00:00        2        14 20170107022
## 24988 2017-01-07 03:00:00        2        10 20170107032
## 24989 2017-01-07 04:00:00        2         9 20170107042
## 24990 2017-01-07 05:00:00        2         8 20170107052
## 24991 2017-01-07 06:00:00        2         8 20170107062
## 24992 2017-01-07 07:00:00        2         8 20170107072
## 24993 2017-01-07 08:00:00        2        10 20170107082
## 24994 2017-01-07 09:00:00        2         7 20170107092
## 24995 2017-01-07 10:00:00        2        11 20170107102
## 24996 2017-01-07 11:00:00        2         9 20170107112
## 24997 2017-01-07 12:00:00        2         9 20170107122
## 24998 2017-01-07 13:00:00        2        11 20170107132
## 24999 2017-01-07 14:00:00        2        13 20170107142
##  [ reached 'max' / getOption("max.print") -- omitted 23121 rows ]
```

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

```
dim(traffic)
```

```
## [1] 48120      4
```

```
str(traffic)
```

```
## 'data.frame':    48120 obs. of  4 variables:
##  $ DateTime: chr  "2015-11-01 00:00:00" "2015-11-01 01:00:00" "2015-11-01 02:00:00" "2015-11-01 03:0
##  $ Junction: int  1 1 1 1 1 1 1 1 1 1 ...
##  $ Vehicles: int  15 13 10 7 9 6 9 8 11 12 ...
##  $ ID      : num  2.02e+10 2.02e+10 2.02e+10 2.02e+10 2.02e+10 ...
```

    b. subset the traffic dataset into junctions. What is the R codes and its output?

```
Junc_subset=subset(traffic, Junction < 10)
Junc_subset
```

```
##                     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   2015-11-02 16:00:00         1        27 20151102161
## 42   2015-11-02 17:00:00         1        27 20151102171
## 43   2015-11-02 18:00:00         1        24 20151102181
## 44   2015-11-02 19:00:00         1        26 20151102191
## 45   2015-11-02 20:00:00         1        29 20151102201
## 46   2015-11-02 21:00:00         1        32 20151102211
## 47   2015-11-02 22:00:00         1        30 20151102221
## 48   2015-11-02 23:00:00         1        27 20151102231
## 49   2015-11-03 00:00:00         1        21 20151103001
## 50   2015-11-03 01:00:00         1        18 20151103011
## 51   2015-11-03 02:00:00         1        19 20151103021
## 52   2015-11-03 03:00:00         1        13 20151103031
## 53   2015-11-03 04:00:00         1        11 20151103041
## 54   2015-11-03 05:00:00         1        11 20151103051
## 55   2015-11-03 06:00:00         1        11 20151103061
## 56   2015-11-03 07:00:00         1        14 20151103071
## 57   2015-11-03 08:00:00         1        15 20151103081
## 58   2015-11-03 09:00:00         1        29 20151103091
## 59   2015-11-03 10:00:00         1        33 20151103101
## 60   2015-11-03 11:00:00         1        32 20151103111
## 61   2015-11-03 12:00:00         1        32 20151103121
## 62   2015-11-03 13:00:00         1        29 20151103131
## 63   2015-11-03 14:00:00         1        27 20151103141
## 64   2015-11-03 15:00:00         1        26 20151103151
## 65   2015-11-03 16:00:00         1        28 20151103161
## 66   2015-11-03 17:00:00         1        26 20151103171
## 67   2015-11-03 18:00:00         1        25 20151103181
## 68   2015-11-03 19:00:00         1        29 20151103191
## 69   2015-11-03 20:00:00         1        26 20151103201
## 70   2015-11-03 21:00:00         1        24 20151103211
## 71   2015-11-03 22:00:00         1        25 20151103221
## 72   2015-11-03 23:00:00         1        20 20151103231
## 73   2015-11-04 00:00:00         1        18 20151104001
## 74   2015-11-04 01:00:00         1        18 20151104011
## 75   2015-11-04 02:00:00         1        13 20151104021
## 76   2015-11-04 03:00:00         1        13 20151104031
## 77   2015-11-04 04:00:00         1        10 20151104041
## 78   2015-11-04 05:00:00         1        12 20151104051
## 79   2015-11-04 06:00:00         1        13 20151104061
## 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
## 83   2015-11-04 10:00:00         1        26 20151104101
## 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
## 87   2015-11-04 14:00:00         1        23 20151104141
## 88   2015-11-04 15:00:00         1        26 20151104151
## 89   2015-11-04 16:00:00         1        26 20151104161
## 90   2015-11-04 17:00:00         1        24 20151104171
## 91   2015-11-04 18:00:00         1        23 20151104181
## 92   2015-11-04 19:00:00         1        25 20151104191
```

```
## 93    2015-11-04 20:00:00        1        26 20151104201
## 94    2015-11-04 21:00:00        1        24 20151104211
## 95    2015-11-04 22:00:00        1        26 20151104221
## 96    2015-11-04 23:00:00        1        24 20151104231
## 97    2015-11-05 00:00:00        1        19 20151105001
## 98    2015-11-05 01:00:00        1        20 20151105011
## 99    2015-11-05 02:00:00        1        18 20151105021
## 100   2015-11-05 03:00:00        1        13 20151105031
## 101   2015-11-05 04:00:00        1        13 20151105041
## 102   2015-11-05 05:00:00        1         9 20151105051
## 103   2015-11-05 06:00:00        1        12 20151105061
## 104   2015-11-05 07:00:00        1        12 20151105071
## 105   2015-11-05 08:00:00        1        15 20151105081
## 106   2015-11-05 09:00:00        1        16 20151105091
## 107   2015-11-05 10:00:00        1        23 20151105101
## 108   2015-11-05 11:00:00        1        24 20151105111
## 109   2015-11-05 12:00:00        1        25 20151105121
## 110   2015-11-05 13:00:00        1        24 20151105131
## 111   2015-11-05 14:00:00        1        26 20151105141
## 112   2015-11-05 15:00:00        1        22 20151105151
## 113   2015-11-05 16:00:00        1        20 20151105161
## 114   2015-11-05 17:00:00        1        20 20151105171
## 115   2015-11-05 18:00:00        1        22 20151105181
## 116   2015-11-05 19:00:00        1        26 20151105191
## 117   2015-11-05 20:00:00        1        22 20151105201
## 118   2015-11-05 21:00:00        1        21 20151105211
## 119   2015-11-05 22:00:00        1        21 20151105221
## 120   2015-11-05 23:00:00        1        21 20151105231
## 121   2015-11-06 00:00:00        1        16 20151106001
## 122   2015-11-06 01:00:00        1        18 20151106011
## 123   2015-11-06 02:00:00        1        19 20151106021
## 124   2015-11-06 03:00:00        1        14 20151106031
## 125   2015-11-06 04:00:00        1        12 20151106041
## 126   2015-11-06 05:00:00        1        13 20151106051
## 127   2015-11-06 06:00:00        1        14 20151106061
## 128   2015-11-06 07:00:00        1        14 20151106071
## 129   2015-11-06 08:00:00        1        13 20151106081
## 130   2015-11-06 09:00:00        1        20 20151106091
## 131   2015-11-06 10:00:00        1        22 20151106101
## 132   2015-11-06 11:00:00        1        26 20151106111
## 133   2015-11-06 12:00:00        1        26 20151106121
## 134   2015-11-06 13:00:00        1        21 20151106131
## 135   2015-11-06 14:00:00        1        23 20151106141
## 136   2015-11-06 15:00:00        1        23 20151106151
## 137   2015-11-06 16:00:00        1        19 20151106161
## 138   2015-11-06 17:00:00        1        19 20151106171
## 139   2015-11-06 18:00:00        1        20 20151106181
## 140   2015-11-06 19:00:00        1        24 20151106191
## 141   2015-11-06 20:00:00        1        18 20151106201
## 142   2015-11-06 21:00:00        1        19 20151106211
## 143   2015-11-06 22:00:00        1        16 20151106221
## 144   2015-11-06 23:00:00        1        17 20151106231
## 145   2015-11-07 00:00:00        1        16 20151107001
## 146   2015-11-07 01:00:00        1        16 20151107011
```

```
## 147   2015-11-07 02:00:00          1       10 20151107021
## 148   2015-11-07 03:00:00          1        9 20151107031
## 149   2015-11-07 04:00:00          1        8 20151107041
## 150   2015-11-07 05:00:00          1        7 20151107051
## 151   2015-11-07 06:00:00          1        9 20151107061
## 152   2015-11-07 07:00:00          1        8 20151107071
## 153   2015-11-07 08:00:00          1       12 20151107081
## 154   2015-11-07 09:00:00          1       13 20151107091
## 155   2015-11-07 10:00:00          1       17 20151107101
## 156   2015-11-07 11:00:00          1       14 20151107111
## 157   2015-11-07 12:00:00          1       14 20151107121
## 158   2015-11-07 13:00:00          1       14 20151107131
## 159   2015-11-07 14:00:00          1       14 20151107141
## 160   2015-11-07 15:00:00          1       11 20151107151
## 161   2015-11-07 16:00:00          1       15 20151107161
## 162   2015-11-07 17:00:00          1       13 20151107171
## 163   2015-11-07 18:00:00          1       12 20151107181
## 164   2015-11-07 19:00:00          1       17 20151107191
## 165   2015-11-07 20:00:00          1       18 20151107201
## 166   2015-11-07 21:00:00          1       17 20151107211
## 167   2015-11-07 22:00:00          1       16 20151107221
## 168   2015-11-07 23:00:00          1       15 20151107231
## 169   2015-11-08 00:00:00          1       13 20151108001
## 170   2015-11-08 01:00:00          1       16 20151108011
## 171   2015-11-08 02:00:00          1       11 20151108021
## 172   2015-11-08 03:00:00          1        8 20151108031
## 173   2015-11-08 04:00:00          1       10 20151108041
## 174   2015-11-08 05:00:00          1       10 20151108051
## 175   2015-11-08 06:00:00          1       10 20151108061
## 176   2015-11-08 07:00:00          1        9 20151108071
## 177   2015-11-08 08:00:00          1       11 20151108081
## 178   2015-11-08 09:00:00          1       12 20151108091
## 179   2015-11-08 10:00:00          1       18 20151108101
## 180   2015-11-08 11:00:00          1       14 20151108111
## 181   2015-11-08 12:00:00          1       17 20151108121
## 182   2015-11-08 13:00:00          1       14 20151108131
## 183   2015-11-08 14:00:00          1       14 20151108141
## 184   2015-11-08 15:00:00          1       14 20151108151
## 185   2015-11-08 16:00:00          1       12 20151108161
## 186   2015-11-08 17:00:00          1       14 20151108171
## 187   2015-11-08 18:00:00          1       18 20151108181
## 188   2015-11-08 19:00:00          1       13 20151108191
## 189   2015-11-08 20:00:00          1       16 20151108201
## 190   2015-11-08 21:00:00          1       18 20151108211
## 191   2015-11-08 22:00:00          1       14 20151108221
## 192   2015-11-08 23:00:00          1       14 20151108231
## 193   2015-11-09 00:00:00          1       13 20151109001
## 194   2015-11-09 01:00:00          1       15 20151109011
## 195   2015-11-09 02:00:00          1       11 20151109021
## 196   2015-11-09 03:00:00          1       10 20151109031
## 197   2015-11-09 04:00:00          1        9 20151109041
## 198   2015-11-09 05:00:00          1        8 20151109051
## 199   2015-11-09 06:00:00          1        8 20151109061
## 200   2015-11-09 07:00:00          1       10 20151109071
```

```
## 201   2015-11-09 08:00:00        1        11 20151109081
## 202   2015-11-09 09:00:00        1        17 20151109091
## 203   2015-11-09 10:00:00        1        19 20151109101
## 204   2015-11-09 11:00:00        1        22 20151109111
## 205   2015-11-09 12:00:00        1        23 20151109121
## 206   2015-11-09 13:00:00        1        23 20151109131
## 207   2015-11-09 14:00:00        1        24 20151109141
## 208   2015-11-09 15:00:00        1        24 20151109151
## 209   2015-11-09 16:00:00        1        19 20151109161
## 210   2015-11-09 17:00:00        1        19 20151109171
## 211   2015-11-09 18:00:00        1        20 20151109181
## 212   2015-11-09 19:00:00        1        31 20151109191
## 213   2015-11-09 20:00:00        1        25 20151109201
## 214   2015-11-09 21:00:00        1        35 20151109211
## 215   2015-11-09 22:00:00        1        21 20151109221
## 216   2015-11-09 23:00:00        1        24 20151109231
## 217   2015-11-10 00:00:00        1        19 20151110001
## 218   2015-11-10 01:00:00        1        19 20151110011
## 219   2015-11-10 02:00:00        1        18 20151110021
## 220   2015-11-10 03:00:00        1        17 20151110031
## 221   2015-11-10 04:00:00        1        12 20151110041
## 222   2015-11-10 05:00:00        1        10 20151110051
## 223   2015-11-10 06:00:00        1        14 20151110061
## 224   2015-11-10 07:00:00        1        15 20151110071
## 225   2015-11-10 08:00:00        1        14 20151110081
## 226   2015-11-10 09:00:00        1        34 20151110091
## 227   2015-11-10 10:00:00        1        40 20151110101
## 228   2015-11-10 11:00:00        1        38 20151110111
## 229   2015-11-10 12:00:00        1        36 20151110121
## 230   2015-11-10 13:00:00        1        27 20151110131
## 231   2015-11-10 14:00:00        1        48 20151110141
## 232   2015-11-10 15:00:00        1        43 20151110151
## 233   2015-11-10 16:00:00        1        41 20151110161
## 234   2015-11-10 17:00:00        1        35 20151110171
## 235   2015-11-10 18:00:00        1        40 20151110181
## 236   2015-11-10 19:00:00        1        40 20151110191
## 237   2015-11-10 20:00:00        1        40 20151110201
## 238   2015-11-10 21:00:00        1        36 20151110211
## 239   2015-11-10 22:00:00        1        37 20151110221
## 240   2015-11-10 23:00:00        1        35 20151110231
## 241   2015-11-11 00:00:00        1        28 20151111001
## 242   2015-11-11 01:00:00        1        25 20151111011
## 243   2015-11-11 02:00:00        1        19 20151111021
## 244   2015-11-11 03:00:00        1        21 20151111031
## 245   2015-11-11 04:00:00        1        20 20151111041
## 246   2015-11-11 05:00:00        1        15 20151111051
## 247   2015-11-11 06:00:00        1        17 20151111061
## 248   2015-11-11 07:00:00        1        14 20151111071
## 249   2015-11-11 08:00:00        1        19 20151111081
## 250   2015-11-11 09:00:00        1        22 20151111091
## 251   2015-11-11 10:00:00        1        30 20151111101
## 252   2015-11-11 11:00:00        1        26 20151111111
## 253   2015-11-11 12:00:00        1        26 20151111121
## 254   2015-11-11 13:00:00        1        23 20151111131
```

```
## 255   2015-11-11 14:00:00        1       23 20151111141
## 256   2015-11-11 15:00:00        1       24 20151111151
## 257   2015-11-11 16:00:00        1       22 20151111161
## 258   2015-11-11 17:00:00        1       24 20151111171
## 259   2015-11-11 18:00:00        1       26 20151111181
## 260   2015-11-11 19:00:00        1       27 20151111191
## 261   2015-11-11 20:00:00        1       22 20151111201
## 262   2015-11-11 21:00:00        1       23 20151111211
## 263   2015-11-11 22:00:00        1       22 20151111221
## 264   2015-11-11 23:00:00        1       22 20151111231
## 265   2015-11-12 00:00:00        1       22 20151112001
## 266   2015-11-12 01:00:00        1       17 20151112011
## 267   2015-11-12 02:00:00        1       15 20151112021
## 268   2015-11-12 03:00:00        1       12 20151112031
## 269   2015-11-12 04:00:00        1       13 20151112041
## 270   2015-11-12 05:00:00        1        9 20151112051
## 271   2015-11-12 06:00:00        1       14 20151112061
## 272   2015-11-12 07:00:00        1       13 20151112071
## 273   2015-11-12 08:00:00        1       15 20151112081
## 274   2015-11-12 09:00:00        1       27 20151112091
## 275   2015-11-12 10:00:00        1       39 20151112101
## 276   2015-11-12 11:00:00        1       40 20151112111
## 277   2015-11-12 12:00:00        1       36 20151112121
## 278   2015-11-12 13:00:00        1       34 20151112131
## 279   2015-11-12 14:00:00        1       33 20151112141
## 280   2015-11-12 15:00:00        1       28 20151112151
## 281   2015-11-12 16:00:00        1       30 20151112161
## 282   2015-11-12 17:00:00        1       26 20151112171
## 283   2015-11-12 18:00:00        1       30 20151112181
## 284   2015-11-12 19:00:00        1       35 20151112191
## 285   2015-11-12 20:00:00        1       38 20151112201
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## 1313   2015-12-25 16:00:00          1        13 20151225161
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## 2046   2016-01-25 05:00:00        1      12 20160125051
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## 2673   2016-02-20 08:00:00          1         17 20160220081
## 2674   2016-02-20 09:00:00          1         19 20160220091
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## 2682   2016-02-20 17:00:00          1         25 20160220171
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## 2748  2016-02-23 11:00:00        1      52 20160223111
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## 2758  2016-02-23 21:00:00        1      41 20160223211
## 2759  2016-02-23 22:00:00        1      42 20160223221
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## 2858   2016-02-28 01:00:00          1       25 20160228011
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## 2898   2016-02-29 17:00:00          1       52 20160229171
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## 2900   2016-02-29 19:00:00          1       54 20160229191
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## 2909   2016-03-01 04:00:00          1          26 20160301041
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## 2927   2016-03-01 22:00:00          1          46 20160301221
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## 2933   2016-03-02 04:00:00          1          19 20160302041
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## 2952   2016-03-02 23:00:00          1          38 20160302231
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## 4734   2016-05-16 05:00:00          1          19 20160516051
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## 7004   2016-08-18 19:00:00          1       58 20160818191
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## 7096   2016-08-22 15:00:00          1        64 20160822151
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## 7145   2016-08-24 16:00:00          1       58 20160824161
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## 7165   2016-08-25 12:00:00          1       63 20160825121
## 7166   2016-08-25 13:00:00          1       53 20160825131
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## 7185   2016-08-26 08:00:00        1        33 20160826081
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## 7199   2016-08-26 22:00:00        1        48 20160826221
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## 7229   2016-08-28 04:00:00         1      21 20160828041
## 7230   2016-08-28 05:00:00         1      13 20160828051
## 7231   2016-08-28 06:00:00         1      19 20160828061
## 7232   2016-08-28 07:00:00         1      22 20160828071
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## 7236   2016-08-28 11:00:00         1      36 20160828111
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## 7318   2016-08-31 21:00:00          1        64 20160831211
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## 7328   2016-09-01 07:00:00          1        35 20160901071
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## 10025 2016-12-22 16:00:00        1      62 20161222161
## 10026 2016-12-22 17:00:00        1      64 20161222171
## 10027 2016-12-22 18:00:00        1      60 20161222181
## 10028 2016-12-22 19:00:00        1      61 20161222191
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## 10030 2016-12-22 21:00:00          1        62 20161222211
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## 10032 2016-12-22 23:00:00          1        58 20161222231
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## 10034 2016-12-23 01:00:00          1        40 20161223011
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## 10088 2016-12-25 07:00:00          1          20 20161225071
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## 10090 2016-12-25 09:00:00          1          29 20161225091
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## 10190 2016-12-29 13:00:00          1          60 20161229131
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## 10241 2016-12-31 16:00:00        1        29 20161231161
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## 10298 2017-01-03 01:00:00          1       38 20170103011
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## 10361 2017-01-05 16:00:00          1          80 20170105161
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## 12250 2017-03-25 09:00:00          1      54 20170325091
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## 12826 2017-04-18 09:00:00          1        59 20170418091
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## 12829 2017-04-18 12:00:00          1        94 20170418121
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## 12833 2017-04-18 16:00:00          1        84 20170418161
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## 12835 2017-04-18 18:00:00          1        88 20170418181
## 12836 2017-04-18 19:00:00          1        95 20170418191
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## 12838 2017-04-18 21:00:00          1       89 20170418211
## 12839 2017-04-18 22:00:00          1       80 20170418221
## 12840 2017-04-18 23:00:00          1       78 20170418231
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## 12864 2017-04-19 23:00:00          1       81 20170419231
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## 12888 2017-04-20 23:00:00          1       74 20170420231
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## 12895 2017-04-21 06:00:00          1       38 20170421061
## 12896 2017-04-21 07:00:00          1       48 20170421071
## 12897 2017-04-21 08:00:00          1       50 20170421081
## 12898 2017-04-21 09:00:00          1       56 20170421091
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## 12919 2017-04-22 06:00:00          1       30 20170422061
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## 12922 2017-04-22 09:00:00          1       41 20170422091
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## 12928 2017-04-22 15:00:00          1       48 20170422151
## 12929 2017-04-22 16:00:00          1       47 20170422161
## 12930 2017-04-22 17:00:00          1       52 20170422171
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## 12932 2017-04-22 19:00:00          1       57 20170422191
## 12933 2017-04-22 20:00:00          1       65 20170422201
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## 12935 2017-04-22 22:00:00          1       63 20170422221
## 12936 2017-04-22 23:00:00          1       56 20170422231
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## 12942 2017-04-23 05:00:00          1       33 20170423051
## 12943 2017-04-23 06:00:00          1       33 20170423061
## 12944 2017-04-23 07:00:00          1       34 20170423071
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## 12945 2017-04-23 08:00:00          1          39 20170423081
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## 12948 2017-04-23 11:00:00          1          52 20170423111
## 12949 2017-04-23 12:00:00          1          62 20170423121
## 12950 2017-04-23 13:00:00          1          57 20170423131
## 12951 2017-04-23 14:00:00          1          53 20170423141
## 12952 2017-04-23 15:00:00          1          53 20170423151
## 12953 2017-04-23 16:00:00          1          49 20170423161
## 12954 2017-04-23 17:00:00          1          54 20170423171
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## 12966 2017-04-24 05:00:00          1          35 20170424051
## 12967 2017-04-24 06:00:00          1          48 20170424061
## 12968 2017-04-24 07:00:00          1          55 20170424071
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## 12970 2017-04-24 09:00:00          1          61 20170424091
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## 12973 2017-04-24 12:00:00          1          97 20170424121
## 12974 2017-04-24 13:00:00          1          89 20170424131
## 12975 2017-04-24 14:00:00          1          93 20170424141
## 12976 2017-04-24 15:00:00          1          87 20170424151
## 12977 2017-04-24 16:00:00          1          87 20170424161
## 12978 2017-04-24 17:00:00          1          86 20170424171
## 12979 2017-04-24 18:00:00          1          92 20170424181
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## 12981 2017-04-24 20:00:00          1          96 20170424201
## 12982 2017-04-24 21:00:00          1          92 20170424211
## 12983 2017-04-24 22:00:00          1          88 20170424221
## 12984 2017-04-24 23:00:00          1          81 20170424231
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## 12990 2017-04-25 05:00:00          1          40 20170425051
## 12991 2017-04-25 06:00:00          1          47 20170425061
## 12992 2017-04-25 07:00:00          1          55 20170425071
## 12993 2017-04-25 08:00:00          1          57 20170425081
## 12994 2017-04-25 09:00:00          1          69 20170425091
## 12995 2017-04-25 10:00:00          1          78 20170425101
## 12996 2017-04-25 11:00:00          1          87 20170425111
## 12997 2017-04-25 12:00:00          1          92 20170425121
## 12998 2017-04-25 13:00:00          1          85 20170425131
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## 13000 2017-04-25 15:00:00        1        87 20170425151
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## 13006 2017-04-25 21:00:00        1        89 20170425211
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## 13030 2017-04-26 21:00:00        1        78 20170426211
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## 13038 2017-04-27 05:00:00        1        38 20170427051
## 13039 2017-04-27 06:00:00        1        43 20170427061
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## 13044 2017-04-27 11:00:00        1        91 20170427111
## 13045 2017-04-27 12:00:00        1        89 20170427121
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## 13047 2017-04-27 14:00:00        1        84 20170427141
## 13048 2017-04-27 15:00:00        1        85 20170427151
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## 13050 2017-04-27 17:00:00        1        81 20170427171
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## 13052 2017-04-27 19:00:00        1        83 20170427191
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## 13056 2017-04-27 23:00:00         1      76 20170427231
## 13057 2017-04-28 00:00:00         1      65 20170428001
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## 13059 2017-04-28 02:00:00         1      53 20170428021
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## 13068 2017-04-28 11:00:00         1      81 20170428111
## 13069 2017-04-28 12:00:00         1      78 20170428121
## 13070 2017-04-28 13:00:00         1      73 20170428131
## 13071 2017-04-28 14:00:00         1      74 20170428141
## 13072 2017-04-28 15:00:00         1      73 20170428151
## 13073 2017-04-28 16:00:00         1      70 20170428161
## 13074 2017-04-28 17:00:00         1      68 20170428171
## 13075 2017-04-28 18:00:00         1      68 20170428181
## 13076 2017-04-28 19:00:00         1      69 20170428191
## 13077 2017-04-28 20:00:00         1      73 20170428201
## 13078 2017-04-28 21:00:00         1      66 20170428211
## 13079 2017-04-28 22:00:00         1      62 20170428221
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## 13090 2017-04-29 09:00:00         1      39 20170429091
## 13091 2017-04-29 10:00:00         1      54 20170429101
## 13092 2017-04-29 11:00:00         1      55 20170429111
## 13093 2017-04-29 12:00:00         1      52 20170429121
## 13094 2017-04-29 13:00:00         1      47 20170429131
## 13095 2017-04-29 14:00:00         1      47 20170429141
## 13096 2017-04-29 15:00:00         1      43 20170429151
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## 13098 2017-04-29 17:00:00         1      46 20170429171
## 13099 2017-04-29 18:00:00         1      47 20170429181
## 13100 2017-04-29 19:00:00         1      53 20170429191
## 13101 2017-04-29 20:00:00         1      59 20170429201
## 13102 2017-04-29 21:00:00         1      53 20170429211
## 13103 2017-04-29 22:00:00         1      55 20170429221
## 13104 2017-04-29 23:00:00         1      51 20170429231
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## 13106 2017-04-30 01:00:00         1      42 20170430011
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## 13111 2017-04-30 06:00:00        1       29 20170430061
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## 13113 2017-04-30 08:00:00        1       37 20170430081
## 13114 2017-04-30 09:00:00        1       39 20170430091
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## 13117 2017-04-30 12:00:00        1       46 20170430121
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## 13120 2017-04-30 15:00:00        1       45 20170430151
## 13121 2017-04-30 16:00:00        1       43 20170430161
## 13122 2017-04-30 17:00:00        1       45 20170430171
## 13123 2017-04-30 18:00:00        1       53 20170430181
## 13124 2017-04-30 19:00:00        1       58 20170430191
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## 13126 2017-04-30 21:00:00        1       56 20170430211
## 13127 2017-04-30 22:00:00        1       58 20170430221
## 13128 2017-04-30 23:00:00        1       58 20170430231
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## 13130 2017-05-01 01:00:00        1       49 20170501011
## 13131 2017-05-01 02:00:00        1       39 20170501021
## 13132 2017-05-01 03:00:00        1       35 20170501031
## 13133 2017-05-01 04:00:00        1       37 20170501041
## 13134 2017-05-01 05:00:00        1       33 20170501051
## 13135 2017-05-01 06:00:00        1       34 20170501061
## 13136 2017-05-01 07:00:00        1       42 20170501071
## 13137 2017-05-01 08:00:00        1       45 20170501081
## 13138 2017-05-01 09:00:00        1       48 20170501091
## 13139 2017-05-01 10:00:00        1       60 20170501101
## 13140 2017-05-01 11:00:00        1       70 20170501111
## 13141 2017-05-01 12:00:00        1       65 20170501121
## 13142 2017-05-01 13:00:00        1       40 20170501131
## 13143 2017-05-01 14:00:00        1       65 20170501141
## 13144 2017-05-01 15:00:00        1       61 20170501151
## 13145 2017-05-01 16:00:00        1       35 20170501161
## 13146 2017-05-01 17:00:00        1       70 20170501171
## 13147 2017-05-01 18:00:00        1       74 20170501181
## 13148 2017-05-01 19:00:00        1       83 20170501191
## 13149 2017-05-01 20:00:00        1       84 20170501201
## 13150 2017-05-01 21:00:00        1       78 20170501211
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## 13154 2017-05-02 01:00:00        1       59 20170502011
## 13155 2017-05-02 02:00:00        1       51 20170502021
## 13156 2017-05-02 03:00:00        1       45 20170502031
## 13157 2017-05-02 04:00:00        1       36 20170502041
## 13158 2017-05-02 05:00:00        1       37 20170502051
## 13159 2017-05-02 06:00:00        1       46 20170502061
## 13160 2017-05-02 07:00:00        1       48 20170502071
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## 13165 2017-05-02 12:00:00         1      91 20170502121
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## 13169 2017-05-02 16:00:00         1      84 20170502161
## 13170 2017-05-02 17:00:00         1      89 20170502171
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## 13523 2017-05-17 10:00:00          1          76 20170517101
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## 13525 2017-05-17 12:00:00          1          98 20170517121
## 13526 2017-05-17 13:00:00          1          90 20170517131
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## 13538 2017-05-18 01:00:00          1          61 20170518011
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## 13546 2017-05-18 09:00:00          1    65 20170518091
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## 13553 2017-05-18 16:00:00          1   102 20170518161
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## 14222 2017-06-15 13:00:00           1        98 20170615131
## 14223 2017-06-15 14:00:00           1       105 20170615141
## 14224 2017-06-15 15:00:00           1       102 20170615151
## 14225 2017-06-15 16:00:00           1        95 20170615161
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## 14240 2017-06-16 07:00:00           1        48 20170616071
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## 14245 2017-06-16 12:00:00         1      100 20170616121
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## 14394 2017-06-22 17:00:00          1      102 20170622171
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## 14397 2017-06-22 20:00:00          1      110 20170622201
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## 14402 2017-06-23 01:00:00          1       69 20170623011
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## 14407 2017-06-23 06:00:00          1       41 20170623061
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## 14409 2017-06-23 08:00:00          1       61 20170623081
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## 14448 2017-06-24 23:00:00          1       63 20170624231
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## 14462 2017-06-25 13:00:00          1        60 20170625131
## 14463 2017-06-25 14:00:00          1        55 20170625141
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## 14466 2017-06-25 17:00:00          1        56 20170625171
## 14467 2017-06-25 18:00:00          1        59 20170625181
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## 14494 2017-06-26 21:00:00          1       103 20170626211
## 14495 2017-06-26 22:00:00          1        99 20170626221
## 14496 2017-06-26 23:00:00          1        97 20170626231
## 14497 2017-06-27 00:00:00          1        92 20170627001
## 14498 2017-06-27 01:00:00          1        75 20170627011
## 14499 2017-06-27 02:00:00          1        69 20170627021
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## 14542 2017-06-28 21:00:00          1      102 20170628211
## 14543 2017-06-28 22:00:00          1       96 20170628221
## 14544 2017-06-28 23:00:00          1       96 20170628231
## 14545 2017-06-29 00:00:00          1       86 20170629001
## 14546 2017-06-29 01:00:00          1       76 20170629011
## 14547 2017-06-29 02:00:00          1       63 20170629021
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## 14551 2017-06-29 06:00:00          1       49 20170629061
## 14552 2017-06-29 07:00:00          1       50 20170629071
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## 17426 2016-02-27 01:00:00          2      8 20160227012
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## 17962 2016-03-20 09:00:00         2          8 20160320092
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## 18776 2016-04-23 07:00:00        2         6 20160423072
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## 18830 2016-04-25 13:00:00          2       13 20160425132
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## 18838 2016-04-25 21:00:00          2          14 20160425212
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## 18884 2016-04-27 19:00:00          2          17 20160427192
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## 18945 2016-04-30 08:00:00          2          9 20160430082
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## 18992 2016-05-02 07:00:00          2         11 20160502072
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## 19000 2016-05-02 15:00:00            2        17 20160502152
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## 19046 2016-05-04 13:00:00            2        14 20160504132
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## 19079 2016-05-05 22:00:00          2          15 20160505222
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## 19085 2016-05-06 04:00:00          2           8 20160506042
## 19086 2016-05-06 05:00:00          2           9 20160506052
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## 19100 2016-05-06 19:00:00          2          13 20160506192
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## 19462 2016-05-21 21:00:00      2      11 20160521212
## 19463 2016-05-21 22:00:00      2       9 20160521222
## 19464 2016-05-21 23:00:00      2      11 20160521232
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## 19466 2016-05-22 01:00:00      2       7 20160522012
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## 19468 2016-05-22 03:00:00      2       6 20160522032
## 19469 2016-05-22 04:00:00      2       7 20160522042
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## 19473 2016-05-22 08:00:00      2       6 20160522082
## 19474 2016-05-22 09:00:00      2       6 20160522092
## 19475 2016-05-22 10:00:00      2       7 20160522102
## 19476 2016-05-22 11:00:00      2       8 20160522112
## 19477 2016-05-22 12:00:00      2       9 20160522122
## 19478 2016-05-22 13:00:00      2       6 20160522132
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## 19480 2016-05-22 15:00:00      2       9 20160522152
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## 19482 2016-05-22 17:00:00      2       7 20160522172
## 19483 2016-05-22 18:00:00      2      11 20160522182
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## 19485 2016-05-22 20:00:00      2       9 20160522202
## 19486 2016-05-22 21:00:00      2      12 20160522212
## 19487 2016-05-22 22:00:00      2       9 20160522222
## 19488 2016-05-22 23:00:00      2       8 20160522232
## 19489 2016-05-23 00:00:00      2       8 20160523002
## 19490 2016-05-23 01:00:00      2       8 20160523012
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## 19492 2016-05-23 03:00:00      2       9 20160523032
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## 19498 2016-05-23 09:00:00      2      10 20160523092
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## 19500 2016-05-23 11:00:00      2      16 20160523112
## 19501 2016-05-23 12:00:00      2      12 20160523122
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## 19503 2016-05-23 14:00:00      2      15 20160523142
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## 19525 2016-05-24 12:00:00      2      15 20160524122
## 19526 2016-05-24 13:00:00      2      15 20160524132
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## 19528 2016-05-24 15:00:00      2      17 20160524152
## 19529 2016-05-24 16:00:00      2      13 20160524162
## 19530 2016-05-24 17:00:00      2      18 20160524172
## 19531 2016-05-24 18:00:00      2      14 20160524182
## 19532 2016-05-24 19:00:00      2      15 20160524192
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## 19536 2016-05-24 23:00:00          2          12 20160524232
## 19537 2016-05-25 00:00:00          2          12 20160525002
## 19538 2016-05-25 01:00:00          2          12 20160525012
## 19539 2016-05-25 02:00:00          2          12 20160525022
## 19540 2016-05-25 03:00:00          2          11 20160525032
## 19541 2016-05-25 04:00:00          2           8 20160525042
## 19542 2016-05-25 05:00:00          2          10 20160525052
## 19543 2016-05-25 06:00:00          2          10 20160525062
## 19544 2016-05-25 07:00:00          2           5 20160525072
## 19545 2016-05-25 08:00:00          2          11 20160525082
## 19546 2016-05-25 09:00:00          2          13 20160525092
## 19547 2016-05-25 10:00:00          2          13 20160525102
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## 19552 2016-05-25 15:00:00          2          15 20160525152
## 19553 2016-05-25 16:00:00          2          17 20160525162
## 19554 2016-05-25 17:00:00          2          16 20160525172
## 19555 2016-05-25 18:00:00          2          14 20160525182
## 19556 2016-05-25 19:00:00          2          16 20160525192
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## 19558 2016-05-25 21:00:00          2          17 20160525212
## 19559 2016-05-25 22:00:00          2          17 20160525222
## 19560 2016-05-25 23:00:00          2          14 20160525232
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## 19562 2016-05-26 01:00:00          2          12 20160526012
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## 19565 2016-05-26 04:00:00          2           9 20160526042
## 19566 2016-05-26 05:00:00          2           6 20160526052
## 19567 2016-05-26 06:00:00          2           6 20160526062
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## 19570 2016-05-26 09:00:00          2           9 20160526092
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## 19572 2016-05-26 11:00:00          2          11 20160526112
## 19573 2016-05-26 12:00:00          2          16 20160526122
## 19574 2016-05-26 13:00:00          2          16 20160526132
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## 19576 2016-05-26 15:00:00          2          19 20160526152
## 19577 2016-05-26 16:00:00          2          22 20160526162
## 19578 2016-05-26 17:00:00          2          16 20160526172
## 19579 2016-05-26 18:00:00          2          19 20160526182
## 19580 2016-05-26 19:00:00          2          19 20160526192
## 19581 2016-05-26 20:00:00          2          18 20160526202
## 19582 2016-05-26 21:00:00          2          15 20160526212
## 19583 2016-05-26 22:00:00          2          12 20160526222
## 19584 2016-05-26 23:00:00          2          15 20160526232
## 19585 2016-05-27 00:00:00          2          14 20160527002
## 19586 2016-05-27 01:00:00          2          11 20160527012
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## 19590 2016-05-27 05:00:00        2        8 20160527052
## 19591 2016-05-27 06:00:00        2        8 20160527062
## 19592 2016-05-27 07:00:00        2        7 20160527072
## 19593 2016-05-27 08:00:00        2       12 20160527082
## 19594 2016-05-27 09:00:00        2       10 20160527092
## 19595 2016-05-27 10:00:00        2       13 20160527102
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## 19600 2016-05-27 15:00:00        2       17 20160527152
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## 19606 2016-05-27 21:00:00        2       13 20160527212
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## 19609 2016-05-28 00:00:00        2        9 20160528002
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## 19624 2016-05-28 15:00:00        2        9 20160528152
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## 19630 2016-05-28 21:00:00        2        8 20160528212
## 19631 2016-05-28 22:00:00        2       11 20160528222
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## 19633 2016-05-29 00:00:00        2        8 20160529002
## 19634 2016-05-29 01:00:00        2        6 20160529012
## 19635 2016-05-29 02:00:00        2        8 20160529022
## 19636 2016-05-29 03:00:00        2        6 20160529032
## 19637 2016-05-29 04:00:00        2        7 20160529042
## 19638 2016-05-29 05:00:00        2        6 20160529052
## 19639 2016-05-29 06:00:00        2        5 20160529062
## 19640 2016-05-29 07:00:00        2        5 20160529072
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## 19645 2016-05-29 12:00:00      2       8 20160529122
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## 19648 2016-05-29 15:00:00      2       7 20160529152
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## 19653 2016-05-29 20:00:00      2      11 20160529202
## 19654 2016-05-29 21:00:00      2      12 20160529212
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## 19656 2016-05-29 23:00:00      2       8 20160529232
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## 19663 2016-05-30 06:00:00      2       7 20160530062
## 19664 2016-05-30 07:00:00      2       7 20160530072
## 19665 2016-05-30 08:00:00      2      10 20160530082
## 19666 2016-05-30 09:00:00      2       7 20160530092
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## 19670 2016-05-30 13:00:00      2      15 20160530132
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## 19672 2016-05-30 15:00:00      2      18 20160530152
## 19673 2016-05-30 16:00:00      2      13 20160530162
## 19674 2016-05-30 17:00:00      2      18 20160530172
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## 19676 2016-05-30 19:00:00      2      16 20160530192
## 19677 2016-05-30 20:00:00      2      13 20160530202
## 19678 2016-05-30 21:00:00      2      14 20160530212
## 19679 2016-05-30 22:00:00      2      13 20160530222
## 19680 2016-05-30 23:00:00      2      12 20160530232
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## 19682 2016-05-31 01:00:00      2      12 20160531012
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## 19686 2016-05-31 05:00:00      2       7 20160531052
## 19687 2016-05-31 06:00:00      2       6 20160531062
## 19688 2016-05-31 07:00:00      2       5 20160531072
## 19689 2016-05-31 08:00:00      2       7 20160531082
## 19690 2016-05-31 09:00:00      2       8 20160531092
## 19691 2016-05-31 10:00:00      2      13 20160531102
## 19692 2016-05-31 11:00:00      2      15 20160531112
## 19693 2016-05-31 12:00:00      2      15 20160531122
## 19694 2016-05-31 13:00:00      2      16 20160531132
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## 19698 2016-05-31 17:00:00        2       16 20160531172
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## 19702 2016-05-31 21:00:00        2       14 20160531212
## 19703 2016-05-31 22:00:00        2       13 20160531222
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## 19714 2016-06-01 09:00:00        2        9 20160601092
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## 19724 2016-06-01 19:00:00        2       17 20160601192
## 19725 2016-06-01 20:00:00        2       16 20160601202
## 19726 2016-06-01 21:00:00        2       18 20160601212
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## 19732 2016-06-02 03:00:00        2        7 20160602032
## 19733 2016-06-02 04:00:00        2        9 20160602042
## 19734 2016-06-02 05:00:00        2        8 20160602052
## 19735 2016-06-02 06:00:00        2        6 20160602062
## 19736 2016-06-02 07:00:00        2        8 20160602072
## 19737 2016-06-02 08:00:00        2       10 20160602082
## 19738 2016-06-02 09:00:00        2       14 20160602092
## 19739 2016-06-02 10:00:00        2       10 20160602102
## 19740 2016-06-02 11:00:00        2       14 20160602112
## 19741 2016-06-02 12:00:00        2       15 20160602122
## 19742 2016-06-02 13:00:00        2       15 20160602132
## 19743 2016-06-02 14:00:00        2       17 20160602142
## 19744 2016-06-02 15:00:00        2       18 20160602152
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## 19746 2016-06-02 17:00:00        2       19 20160602172
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## 19748 2016-06-02 19:00:00        2       21 20160602192
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## 19755 2016-06-03 02:00:00          2        12 20160603022
## 19756 2016-06-03 03:00:00          2        13 20160603032
## 19757 2016-06-03 04:00:00          2         9 20160603042
## 19758 2016-06-03 05:00:00          2         8 20160603052
## 19759 2016-06-03 06:00:00          2         6 20160603062
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## 19761 2016-06-03 08:00:00          2        12 20160603082
## 19762 2016-06-03 09:00:00          2        11 20160603092
## 19763 2016-06-03 10:00:00          2        10 20160603102
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## 19765 2016-06-03 12:00:00          2        16 20160603122
## 19766 2016-06-03 13:00:00          2        17 20160603132
## 19767 2016-06-03 14:00:00          2        19 20160603142
## 19768 2016-06-03 15:00:00          2        14 20160603152
## 19769 2016-06-03 16:00:00          2        17 20160603162
## 19770 2016-06-03 17:00:00          2        12 20160603172
## 19771 2016-06-03 18:00:00          2        15 20160603182
## 19772 2016-06-03 19:00:00          2        13 20160603192
## 19773 2016-06-03 20:00:00          2        14 20160603202
## 19774 2016-06-03 21:00:00          2        14 20160603212
## 19775 2016-06-03 22:00:00          2        14 20160603222
## 19776 2016-06-03 23:00:00          2        11 20160603232
## 19777 2016-06-04 00:00:00          2        11 20160604002
## 19778 2016-06-04 01:00:00          2         9 20160604012
## 19779 2016-06-04 02:00:00          2        12 20160604022
## 19780 2016-06-04 03:00:00          2         9 20160604032
## 19781 2016-06-04 04:00:00          2         8 20160604042
## 19782 2016-06-04 05:00:00          2         8 20160604052
## 19783 2016-06-04 06:00:00          2         5 20160604062
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## 19785 2016-06-04 08:00:00          2         7 20160604082
## 19786 2016-06-04 09:00:00          2         9 20160604092
## 19787 2016-06-04 10:00:00          2         9 20160604102
## 19788 2016-06-04 11:00:00          2        10 20160604112
## 19789 2016-06-04 12:00:00          2         7 20160604122
## 19790 2016-06-04 13:00:00          2        13 20160604132
## 19791 2016-06-04 14:00:00          2         8 20160604142
## 19792 2016-06-04 15:00:00          2         6 20160604152
## 19793 2016-06-04 16:00:00          2         9 20160604162
## 19794 2016-06-04 17:00:00          2        10 20160604172
## 19795 2016-06-04 18:00:00          2         6 20160604182
## 19796 2016-06-04 19:00:00          2        10 20160604192
## 19797 2016-06-04 20:00:00          2        11 20160604202
## 19798 2016-06-04 21:00:00          2         8 20160604212
## 19799 2016-06-04 22:00:00          2         9 20160604222
## 19800 2016-06-04 23:00:00          2         7 20160604232
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## 19802 2016-06-05 01:00:00          2         7 20160605012
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## 19804 2016-06-05 03:00:00          2           6 20160605032
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## 20180 2016-06-20 19:00:00          2          20 20160620192
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## 20774 2016-07-15 13:00:00           2          17 20160715132
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## 20855 2016-07-18 22:00:00         2         15 20160718222
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## 21202 2016-08-02 09:00:00        2        10 20160802092
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## 21204 2016-08-02 11:00:00        2        16 20160802112
## 21205 2016-08-02 12:00:00        2        16 20160802122
## 21206 2016-08-02 13:00:00        2        17 20160802132
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## 21214 2016-08-02 21:00:00          2          16 20160802212
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## 21258 2016-08-04 17:00:00          2           4 20160804172
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## 21260 2016-08-04 19:00:00          2           5 20160804192
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## 21266 2016-08-05 01:00:00          2           4 20160805012
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## 21268 2016-08-05 03:00:00          2           2 20160805032
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## 21314 2016-08-07 01:00:00          2           7 20160807012
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## 21368 2016-08-09 07:00:00       2       7 20160809072
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## 21476 2016-08-13 19:00:00        2         6 20160813192
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## 21482 2016-08-14 01:00:00           2           9 20160814012
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## 21498 2016-08-14 17:00:00           2           8 20160814172
## 21499 2016-08-14 18:00:00           2           8 20160814182
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## 22286 2016-09-16 13:00:00         2         15 20160916132
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## 22340 2016-09-18 19:00:00          2      10 20160918192
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## 22394 2016-09-21 01:00:00        2       12 20160921012
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## 22448 2016-09-23 07:00:00          2           9 20160923072
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## 22454 2016-09-23 13:00:00         2           15 20160923132
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## 22474 2016-09-24 09:00:00         2            7 20160924092
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## 22485 2016-09-24 20:00:00         2           13 20160924202
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## 22487 2016-09-24 22:00:00         2           11 20160924222
## 22488 2016-09-24 23:00:00         2           11 20160924232
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## 22490 2016-09-25 01:00:00         2           10 20160925012
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## 22494 2016-09-25 05:00:00         2            5 20160925052
## 22495 2016-09-25 06:00:00         2            7 20160925062
## 22496 2016-09-25 07:00:00         2            9 20160925072
## 22497 2016-09-25 08:00:00         2            7 20160925082
## 22498 2016-09-25 09:00:00         2            8 20160925092
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## 22501 2016-09-25 12:00:00         2            8 20160925122
## 22502 2016-09-25 13:00:00         2           11 20160925132
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## 22511 2016-09-25 22:00:00      2      15 20160925222
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## 22526 2016-09-26 13:00:00      2      17 20160926132
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## 22574 2016-09-28 13:00:00          2          14 20160928132
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## 22583 2016-09-28 22:00:00          2          18 20160928222
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## 23634 2016-11-11 17:00:00        2        14 20161111172
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## 24694 2016-12-25 21:00:00          2           8 20161225212
## 24695 2016-12-25 22:00:00          2           7 20161225222
## 24696 2016-12-25 23:00:00          2           9 20161225232
## 24697 2016-12-26 00:00:00          2           8 20161226002
## 24698 2016-12-26 01:00:00          2           5 20161226012
## 24699 2016-12-26 02:00:00          2           5 20161226022
## 24700 2016-12-26 03:00:00          2           3 20161226032
## 24701 2016-12-26 04:00:00          2           4 20161226042
## 24702 2016-12-26 05:00:00          2           8 20161226052
## 24703 2016-12-26 06:00:00          2           7 20161226062
## 24704 2016-12-26 07:00:00          2           8 20161226072
## 24705 2016-12-26 08:00:00          2           8 20161226082
## 24706 2016-12-26 09:00:00          2          11 20161226092
## 24707 2016-12-26 10:00:00          2          13 20161226102
## 24708 2016-12-26 11:00:00          2          14 20161226112
## 24709 2016-12-26 12:00:00          2          13 20161226122
## 24710 2016-12-26 13:00:00          2          14 20161226132
## 24711 2016-12-26 14:00:00          2          17 20161226142
## 24712 2016-12-26 15:00:00          2          12 20161226152
## 24713 2016-12-26 16:00:00          2          14 20161226162
## 24714 2016-12-26 17:00:00          2          12 20161226172
## 24715 2016-12-26 18:00:00          2          11 20161226182
## 24716 2016-12-26 19:00:00          2          11 20161226192
```

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## 24717 2016-12-26 20:00:00          2          12 20161226202
## 24718 2016-12-26 21:00:00          2          10 20161226212
## 24719 2016-12-26 22:00:00          2          10 20161226222
## 24720 2016-12-26 23:00:00          2           9 20161226232
## 24721 2016-12-27 00:00:00          2           8 20161227002
## 24722 2016-12-27 01:00:00          2          11 20161227012
## 24723 2016-12-27 02:00:00          2           7 20161227022
## 24724 2016-12-27 03:00:00          2           7 20161227032
## 24725 2016-12-27 04:00:00          2           3 20161227042
## 24726 2016-12-27 05:00:00          2           5 20161227052
## 24727 2016-12-27 06:00:00          2          10 20161227062
## 24728 2016-12-27 07:00:00          2           9 20161227072
## 24729 2016-12-27 08:00:00          2          11 20161227082
## 24730 2016-12-27 09:00:00          2           9 20161227092
## 24731 2016-12-27 10:00:00          2          13 20161227102
## 24732 2016-12-27 11:00:00          2          15 20161227112
## 24733 2016-12-27 12:00:00          2          15 20161227122
## 24734 2016-12-27 13:00:00          2          15 20161227132
## 24735 2016-12-27 14:00:00          2          15 20161227142
## 24736 2016-12-27 15:00:00          2          16 20161227152
## 24737 2016-12-27 16:00:00          2          17 20161227162
## 24738 2016-12-27 17:00:00          2          16 20161227172
## 24739 2016-12-27 18:00:00          2          16 20161227182
## 24740 2016-12-27 19:00:00          2          17 20161227192
## 24741 2016-12-27 20:00:00          2          16 20161227202
## 24742 2016-12-27 21:00:00          2          15 20161227212
## 24743 2016-12-27 22:00:00          2          18 20161227222
## 24744 2016-12-27 23:00:00          2          13 20161227232
## 24745 2016-12-28 00:00:00          2          10 20161228002
## 24746 2016-12-28 01:00:00          2          11 20161228012
## 24747 2016-12-28 02:00:00          2          13 20161228022
## 24748 2016-12-28 03:00:00          2           8 20161228032
## 24749 2016-12-28 04:00:00          2          10 20161228042
## 24750 2016-12-28 05:00:00          2           9 20161228052
## 24751 2016-12-28 06:00:00          2           8 20161228062
## 24752 2016-12-28 07:00:00          2           9 20161228072
## 24753 2016-12-28 08:00:00          2           9 20161228082
## 24754 2016-12-28 09:00:00          2           8 20161228092
## 24755 2016-12-28 10:00:00          2          13 20161228102
## 24756 2016-12-28 11:00:00          2          13 20161228112
## 24757 2016-12-28 12:00:00          2          14 20161228122
## 24758 2016-12-28 13:00:00          2          12 20161228132
## 24759 2016-12-28 14:00:00          2          12 20161228142
## 24760 2016-12-28 15:00:00          2          13 20161228152
## 24761 2016-12-28 16:00:00          2          15 20161228162
## 24762 2016-12-28 17:00:00          2          15 20161228172
## 24763 2016-12-28 18:00:00          2          19 20161228182
## 24764 2016-12-28 19:00:00          2          18 20161228192
## 24765 2016-12-28 20:00:00          2          17 20161228202
## 24766 2016-12-28 21:00:00          2          15 20161228212
## 24767 2016-12-28 22:00:00          2          14 20161228222
## 24768 2016-12-28 23:00:00          2          17 20161228232
## 24769 2016-12-29 00:00:00          2          15 20161229002
## 24770 2016-12-29 01:00:00          2          11 20161229012
```

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## 24771 2016-12-29 02:00:00          2          14 20161229022
## 24772 2016-12-29 03:00:00          2          12 20161229032
## 24773 2016-12-29 04:00:00          2          11 20161229042
## 24774 2016-12-29 05:00:00          2          11 20161229052
## 24775 2016-12-29 06:00:00          2           7 20161229062
## 24776 2016-12-29 07:00:00          2           9 20161229072
## 24777 2016-12-29 08:00:00          2          11 20161229082
## 24778 2016-12-29 09:00:00          2          11 20161229092
## 24779 2016-12-29 10:00:00          2          17 20161229102
## 24780 2016-12-29 11:00:00          2          12 20161229112
## 24781 2016-12-29 12:00:00          2          15 20161229122
## 24782 2016-12-29 13:00:00          2          14 20161229132
## 24783 2016-12-29 14:00:00          2          13 20161229142
## 24784 2016-12-29 15:00:00          2          20 20161229152
## 24785 2016-12-29 16:00:00          2          14 20161229162
## 24786 2016-12-29 17:00:00          2          13 20161229172
## 24787 2016-12-29 18:00:00          2          17 20161229182
## 24788 2016-12-29 19:00:00          2          17 20161229192
## 24789 2016-12-29 20:00:00          2          17 20161229202
## 24790 2016-12-29 21:00:00          2          14 20161229212
## 24791 2016-12-29 22:00:00          2          14 20161229222
## 24792 2016-12-29 23:00:00          2          10 20161229232
## 24793 2016-12-30 00:00:00          2          12 20161230002
## 24794 2016-12-30 01:00:00          2          14 20161230012
## 24795 2016-12-30 02:00:00          2          12 20161230022
## 24796 2016-12-30 03:00:00          2           8 20161230032
## 24797 2016-12-30 04:00:00          2           8 20161230042
## 24798 2016-12-30 05:00:00          2           6 20161230052
## 24799 2016-12-30 06:00:00          2           5 20161230062
## 24800 2016-12-30 07:00:00          2          10 20161230072
## 24801 2016-12-30 08:00:00          2          10 20161230082
## 24802 2016-12-30 09:00:00          2          12 20161230092
## 24803 2016-12-30 10:00:00          2           9 20161230102
## 24804 2016-12-30 11:00:00          2          12 20161230112
## 24805 2016-12-30 12:00:00          2          13 20161230122
## 24806 2016-12-30 13:00:00          2          13 20161230132
## 24807 2016-12-30 14:00:00          2          14 20161230142
## 24808 2016-12-30 15:00:00          2          15 20161230152
## 24809 2016-12-30 16:00:00          2          14 20161230162
## 24810 2016-12-30 17:00:00          2          15 20161230172
## 24811 2016-12-30 18:00:00          2          10 20161230182
## 24812 2016-12-30 19:00:00          2          10 20161230192
## 24813 2016-12-30 20:00:00          2          11 20161230202
## 24814 2016-12-30 21:00:00          2          10 20161230212
## 24815 2016-12-30 22:00:00          2          12 20161230222
## 24816 2016-12-30 23:00:00          2          12 20161230232
## 24817 2016-12-31 00:00:00          2          11 20161231002
## 24818 2016-12-31 01:00:00          2           8 20161231012
## 24819 2016-12-31 02:00:00          2          12 20161231022
## 24820 2016-12-31 03:00:00          2           8 20161231032
## 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
```

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## 24825 2016-12-31 08:00:00          2           5 20161231082
## 24826 2016-12-31 09:00:00          2          10 20161231092
## 24827 2016-12-31 10:00:00          2           9 20161231102
## 24828 2016-12-31 11:00:00          2          10 20161231112
## 24829 2016-12-31 12:00:00          2           7 20161231122
## 24830 2016-12-31 13:00:00          2          10 20161231132
## 24831 2016-12-31 14:00:00          2           7 20161231142
## 24832 2016-12-31 15:00:00          2           7 20161231152
## 24833 2016-12-31 16:00:00          2           9 20161231162
## 24834 2016-12-31 17:00:00          2          11 20161231172
## 24835 2016-12-31 18:00:00          2          10 20161231182
## 24836 2016-12-31 19:00:00          2          11 20161231192
## 24837 2016-12-31 20:00:00          2           7 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          2           9 20170101012
## 24843 2017-01-01 02:00:00          2           4 20170101022
## 24844 2017-01-01 03:00:00          2           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
## 24851 2017-01-01 10:00:00          2           4 20170101102
## 24852 2017-01-01 11:00:00          2           8 20170101112
## 24853 2017-01-01 12:00:00          2           6 20170101122
## 24854 2017-01-01 13:00:00          2           6 20170101132
## 24855 2017-01-01 14:00:00          2           7 20170101142
## 24856 2017-01-01 15:00:00          2           7 20170101152
## 24857 2017-01-01 16:00:00          2           8 20170101162
## 24858 2017-01-01 17:00:00          2           9 20170101172
## 24859 2017-01-01 18:00:00          2           9 20170101182
## 24860 2017-01-01 19:00:00          2           7 20170101192
## 24861 2017-01-01 20:00:00          2          11 20170101202
## 24862 2017-01-01 21:00:00          2          11 20170101212
## 24863 2017-01-01 22:00:00          2           9 20170101222
## 24864 2017-01-01 23:00:00          2           9 20170101232
## 24865 2017-01-02 00:00:00          2           8 20170102002
## 24866 2017-01-02 01:00:00          2           9 20170102012
## 24867 2017-01-02 02:00:00          2           8 20170102022
## 24868 2017-01-02 03:00:00          2           9 20170102032
## 24869 2017-01-02 04:00:00          2           7 20170102042
## 24870 2017-01-02 05:00:00          2           6 20170102052
## 24871 2017-01-02 06:00:00          2           6 20170102062
## 24872 2017-01-02 07:00:00          2          10 20170102072
## 24873 2017-01-02 08:00:00          2          10 20170102082
## 24874 2017-01-02 09:00:00          2          11 20170102092
## 24875 2017-01-02 10:00:00          2           9 20170102102
## 24876 2017-01-02 11:00:00          2          15 20170102112
## 24877 2017-01-02 12:00:00          2          16 20170102122
## 24878 2017-01-02 13:00:00          2          11 20170102132
```

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## 24879 2017-01-02 14:00:00        2       15 20170102142
## 24880 2017-01-02 15:00:00        2       19 20170102152
## 24881 2017-01-02 16:00:00        2       17 20170102162
## 24882 2017-01-02 17:00:00        2       14 20170102172
## 24883 2017-01-02 18:00:00        2       13 20170102182
## 24884 2017-01-02 19:00:00        2       13 20170102192
## 24885 2017-01-02 20:00:00        2       12 20170102202
## 24886 2017-01-02 21:00:00        2       14 20170102212
## 24887 2017-01-02 22:00:00        2       11 20170102222
## 24888 2017-01-02 23:00:00        2       14 20170102232
## 24889 2017-01-03 00:00:00        2       13 20170103002
## 24890 2017-01-03 01:00:00        2       10 20170103012
## 24891 2017-01-03 02:00:00        2        8 20170103022
## 24892 2017-01-03 03:00:00        2       11 20170103032
## 24893 2017-01-03 04:00:00        2        7 20170103042
## 24894 2017-01-03 05:00:00        2        8 20170103052
## 24895 2017-01-03 06:00:00        2        8 20170103062
## 24896 2017-01-03 07:00:00        2        7 20170103072
## 24897 2017-01-03 08:00:00        2       11 20170103082
## 24898 2017-01-03 09:00:00        2       11 20170103092
## 24899 2017-01-03 10:00:00        2       16 20170103102
## 24900 2017-01-03 11:00:00        2       16 20170103112
## 24901 2017-01-03 12:00:00        2       16 20170103122
## 24902 2017-01-03 13:00:00        2       13 20170103132
## 24903 2017-01-03 14:00:00        2       19 20170103142
## 24904 2017-01-03 15:00:00        2       19 20170103152
## 24905 2017-01-03 16:00:00        2       22 20170103162
## 24906 2017-01-03 17:00:00        2       20 20170103172
## 24907 2017-01-03 18:00:00        2       16 20170103182
## 24908 2017-01-03 19:00:00        2       19 20170103192
## 24909 2017-01-03 20:00:00        2       20 20170103202
## 24910 2017-01-03 21:00:00        2       19 20170103212
## 24911 2017-01-03 22:00:00        2       20 20170103222
## 24912 2017-01-03 23:00:00        2       16 20170103232
## 24913 2017-01-04 00:00:00        2       13 20170104002
## 24914 2017-01-04 01:00:00        2       11 20170104012
## 24915 2017-01-04 02:00:00        2       11 20170104022
## 24916 2017-01-04 03:00:00        2       14 20170104032
## 24917 2017-01-04 04:00:00        2       12 20170104042
## 24918 2017-01-04 05:00:00        2        9 20170104052
## 24919 2017-01-04 06:00:00        2       10 20170104062
## 24920 2017-01-04 07:00:00        2        9 20170104072
## 24921 2017-01-04 08:00:00        2       10 20170104082
## 24922 2017-01-04 09:00:00        2       14 20170104092
## 24923 2017-01-04 10:00:00        2       13 20170104102
## 24924 2017-01-04 11:00:00        2       18 20170104112
## 24925 2017-01-04 12:00:00        2       17 20170104122
## 24926 2017-01-04 13:00:00        2       13 20170104132
## 24927 2017-01-04 14:00:00        2       22 20170104142
## 24928 2017-01-04 15:00:00        2       22 20170104152
## 24929 2017-01-04 16:00:00        2       22 20170104162
## 24930 2017-01-04 17:00:00        2       17 20170104172
## 24931 2017-01-04 18:00:00        2       21 20170104182
## 24932 2017-01-04 19:00:00        2       19 20170104192
```

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## 24933 2017-01-04 20:00:00          2      16 20170104202
## 24934 2017-01-04 21:00:00          2      18 20170104212
## 24935 2017-01-04 22:00:00          2      19 20170104222
## 24936 2017-01-04 23:00:00          2      17 20170104232
## 24937 2017-01-05 00:00:00          2      16 20170105002
## 24938 2017-01-05 01:00:00          2      14 20170105012
## 24939 2017-01-05 02:00:00          2      14 20170105022
## 24940 2017-01-05 03:00:00          2       9 20170105032
## 24941 2017-01-05 04:00:00          2      12 20170105042
## 24942 2017-01-05 05:00:00          2      12 20170105052
## 24943 2017-01-05 06:00:00          2       8 20170105062
## 24944 2017-01-05 07:00:00          2       7 20170105072
## 24945 2017-01-05 08:00:00          2      10 20170105082
## 24946 2017-01-05 09:00:00          2      12 20170105092
## 24947 2017-01-05 10:00:00          2      14 20170105102
## 24948 2017-01-05 11:00:00          2      13 20170105112
## 24949 2017-01-05 12:00:00          2      15 20170105122
## 24950 2017-01-05 13:00:00          2      18 20170105132
## 24951 2017-01-05 14:00:00          2      16 20170105142
## 24952 2017-01-05 15:00:00          2      18 20170105152
## 24953 2017-01-05 16:00:00          2      18 20170105162
## 24954 2017-01-05 17:00:00          2      16 20170105172
## 24955 2017-01-05 18:00:00          2      20 20170105182
## 24956 2017-01-05 19:00:00          2      18 20170105192
## 24957 2017-01-05 20:00:00          2      24 20170105202
## 24958 2017-01-05 21:00:00          2      21 20170105212
## 24959 2017-01-05 22:00:00          2      17 20170105222
## 24960 2017-01-05 23:00:00          2      18 20170105232
## 24961 2017-01-06 00:00:00          2      13 20170106002
## 24962 2017-01-06 01:00:00          2      17 20170106012
## 24963 2017-01-06 02:00:00          2      11 20170106022
## 24964 2017-01-06 03:00:00          2      10 20170106032
## 24965 2017-01-06 04:00:00          2      11 20170106042
## 24966 2017-01-06 05:00:00          2       8 20170106052
## 24967 2017-01-06 06:00:00          2       8 20170106062
## 24968 2017-01-06 07:00:00          2       6 20170106072
## 24969 2017-01-06 08:00:00          2      12 20170106082
## 24970 2017-01-06 09:00:00          2      11 20170106092
## 24971 2017-01-06 10:00:00          2      10 20170106102
## 24972 2017-01-06 11:00:00          2      17 20170106112
## 24973 2017-01-06 12:00:00          2      17 20170106122
## 24974 2017-01-06 13:00:00          2      17 20170106132
## 24975 2017-01-06 14:00:00          2      19 20170106142
## 24976 2017-01-06 15:00:00          2      17 20170106152
## 24977 2017-01-06 16:00:00          2      18 20170106162
## 24978 2017-01-06 17:00:00          2      22 20170106172
## 24979 2017-01-06 18:00:00          2      20 20170106182
## 24980 2017-01-06 19:00:00          2      20 20170106192
## 24981 2017-01-06 20:00:00          2      19 20170106202
## 24982 2017-01-06 21:00:00          2      18 20170106212
## 24983 2017-01-06 22:00:00          2      19 20170106222
## 24984 2017-01-06 23:00:00          2      21 20170106232
## 24985 2017-01-07 00:00:00          2      14 20170107002
## 24986 2017-01-07 01:00:00          2      14 20170107012
```

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## 24987 2017-01-07 02:00:00        2        14 20170107022
## 24988 2017-01-07 03:00:00        2        10 20170107032
## 24989 2017-01-07 04:00:00        2         9 20170107042
## 24990 2017-01-07 05:00:00        2         8 20170107052
## 24991 2017-01-07 06:00:00        2         8 20170107062
## 24992 2017-01-07 07:00:00        2         8 20170107072
## 24993 2017-01-07 08:00:00        2        10 20170107082
## 24994 2017-01-07 09:00:00        2         7 20170107092
## 24995 2017-01-07 10:00:00        2        11 20170107102
## 24996 2017-01-07 11:00:00        2         9 20170107112
## 24997 2017-01-07 12:00:00        2         9 20170107122
## 24998 2017-01-07 13:00:00        2        11 20170107132
## 24999 2017-01-07 14:00:00        2        13 20170107142
##  [ reached 'max' / getOption("max.print") -- omitted 23121 rows ]
```

```
library(ggplot2)
ggplot(Junc_subset, aes(x = Junction, y = Vehicles, group = Junction, color = Junction)) +
  geom_line() +
  labs(x = "Junction", y = "Vehicle", title = "Traffic Flow at Different Junctions") +
  theme_minimal()
```
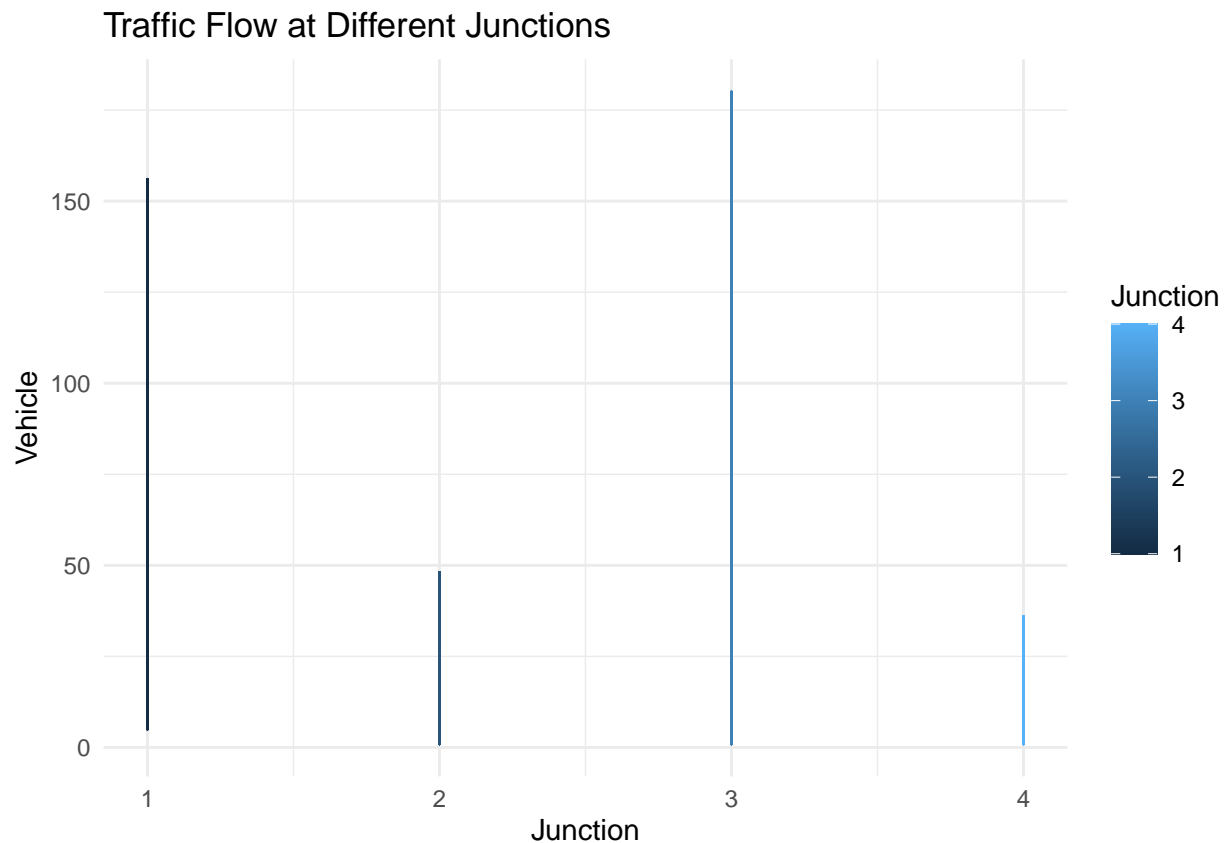

7. From alexa_file.xlsx, import it to your environment
```

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

    a. How many observations does alexa_file has? What about the number of columns? Show your solution
       and answer.

```
dim(alexa)
```

```
## [1] 3150    5
```

```
str(alexa)
```

```
## tibble [3,150 x 5] (S3: tbl_df/tbl/data.frame)
##  $ rating          : num [1:3150] 5 5 4 5 5 5 3 5 5 5 ...
##  $ date            : POSIXct[1:3150], format: "2018-07-31" "2018-07-31" ...
##  $ variation       : chr [1:3150] "Charcoal Fabric" "Charcoal Fabric" "Walnut Finish" "Charcoal Fabri
##  $ verified_reviews: chr [1:3150] "Love my Echo!" "Loved it!" "Sometimes while playing a game, you ca
##  $ feedback        : num [1:3150] 1 1 1 1 1 1 1 1 1 1 ...
```

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

```
library(dplyr)

alexaVar <- alexa %>%
  group_by(variation) %>%
  summarise(Total_Count = n())

alexaVar
```

```
## # A tibble: 16 x 2
##    variation                  Total_Count
##    <chr>                            <int>
##  1 Black                              261
##  2 Black  Dot                        516
##  3 Black  Plus                       270
##  4 Black  Show                       265
##  5 Black  Spot                       241
##  6 Charcoal Fabric                    430
##  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.

```
library(ggplot2)
ggplot(alexa, aes(x = variation)) +
  geom_bar(fill = "red") +
  labs(x = "Variations", y = "Frequency", title = "Frequency of Variations in Alexa Dataset") +
  theme(axis.text.x = element_text(angle = 90, vjust = 0.5, hjust = 1))
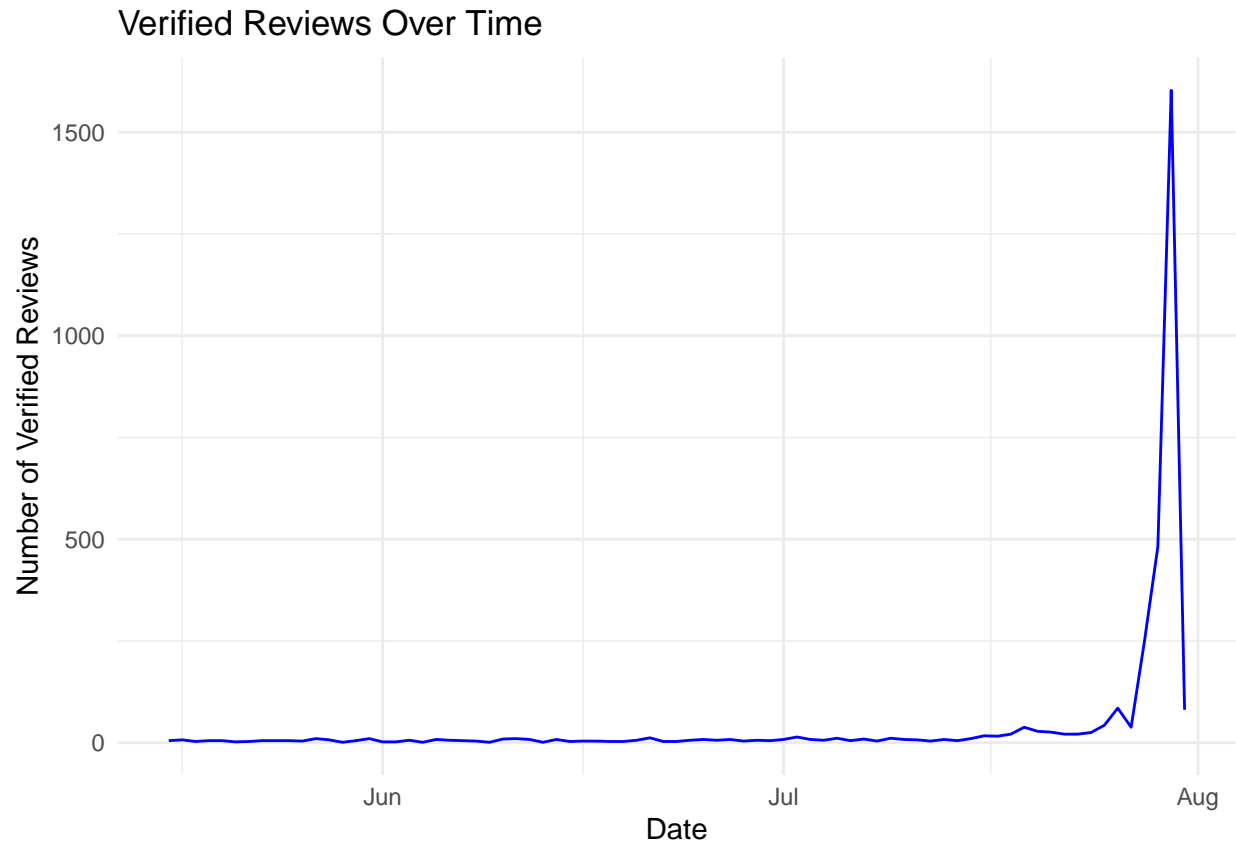```



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.

```
library(ggplot2)
library(dplyr)
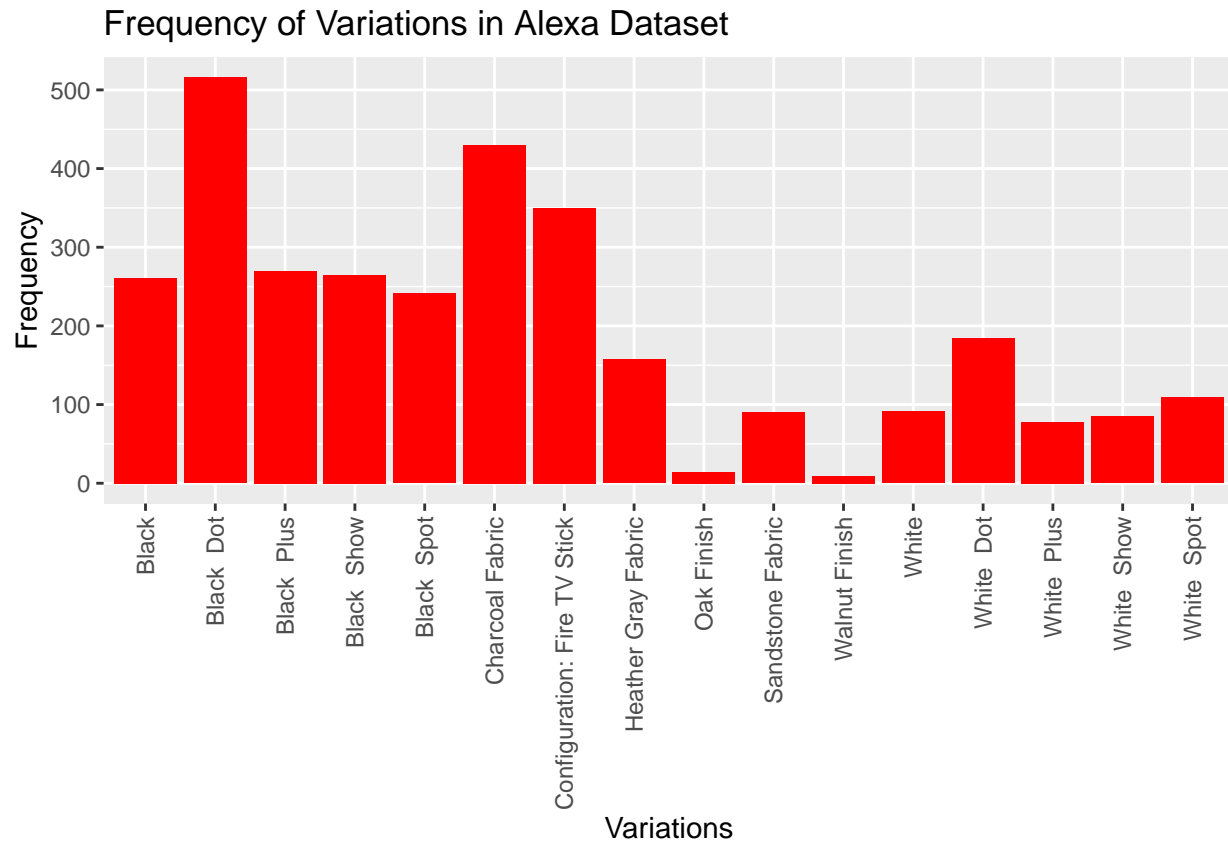
review_counts <- alexa %>%
  group_by(date) %>%
  summarise(Num_Reviews = n())

ggplot(review_counts, aes(x = date, y = Num_Reviews, group = 1)) +
  geom_line(color = "blue") +
  labs(x = "Date", y = "Number of Verified Reviews", title = "Verified Reviews Over Time") +
  theme_minimal()
```

Verified Reviews Over Time

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

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

variation_ratings <- alexa %>%
  group_by(variation) %>%
  summarise(Avg_Rating = mean(rating, na.rm = TRUE)) %>%
  arrange(desc(Avg_Rating))

variation_ratings$variation[which.max(variation_ratings$Avg_Rating)]
```

```
## [1] "Walnut Finish"
```

```r
ggplot(variation_ratings, aes(x = reorder(variation, Avg_Rating), y = Avg_Rating)) +
  geom_bar(stat = "identity", fill = "gold") +
  labs(x = "Variations", y = "Average Rating", title = "Relationship of Variations and Ratings") +
  theme(axis.text.x = element_text(angle = 90, vjust = 0.5, hjust = 1))
```

Relationship of Variations and Ratings