

```

1 library(magrittr)
2 library(dplyr)
3 library(ggplot2)
4 library(readr)
5 library(fitdistrplus)
6 library(DAAG)
7 library("ggplot2")
8 library(anytime)
9
10 tierion <- read_delim('C:/Users/ygaoq/OneDrive/MyDocuments/2019_Sp
11 names(tierion) <- c('fromID', 'toID', 'unixTime', 'tokenAmount')
12 decimals <- 10^8
13 supply <- 1 * 10^9
14 tierionFiltered <- filter(tierion, tokenAmount < decimals * supply)
15 #filter out all outliers
16
17 #figure out how many users induced those unnormal transaction
18 tierion_outliers <- filter(tierion, tokenAmount >= decimals * supply)
19 user_outliers <- tierion_outliers %>% group_by(toID) %>% summarise(
20 number_users_outliers <- nrow(user_outliers)
21 number_users_outliers
22
23 #get top X buyers data
24 buys <- tierionFiltered %>% group_by(toID) %>% summarise(n = n()) %>%
25 buys_sorted_dec <- buys[order(-buys$n),]
26 #top 30 active buyers and number of buys
27 top_30_buyers <- buys_sorted_dec %>% head(30)

```