```r
options(tinytex.verbose = TRUE)

set.seed(123456)

library(car)
library(dplyr)
library(magrittr)
library(ggplot2)
library(forcats)
library(lubridate)
library(RQuantLib)
library(tidyverse)
library(wesanderson)
library(caret)
library(rpart.plot)
library(randomForest)
library(rfm)
library(party)
library(e1071)
library(tree)
library(doBy)
library(kableExtra)
library(DT)
library(funModeling)
```

PRE-PROCESSING

```r
str(df_1_cli_fid)
```

```
## 'data.frame':    370135 obs. of  7 variables:
##  $ ID_CLI     : int  500 16647 835335 9557 767877 743090 768948 813156 766232 773214 ...
##  $ ID_FID     : int  814583 781106 816369 746573 741522 776971 742716 791681 739769 752897 ...
##  $ ID_NEG     : int  32 44 28 9 41 2 31 45 4 5 ...
##  $ TYP_CLI_FID: int  1 1 1 1 1 1 1 1 1 1 ...
##  $ COD_FID    : chr  "PREMIUM" "PREMIUM" "PREMIUM" "PREMIUM" ...
##  $ STATUS_FID : int  1 1 1 1 1 1 1 1 1 1 ...
##  $ DT_ACTIVE  : chr  "2019-02-23" "2019-02-02" "2019-02-23" "2019-01-11" ...
```

```r
summary(df_1_cli_fid)
```

```
##      ID_CLI           ID_FID            ID_NEG        TYP_CLI_FID
##  Min.   :     1   Min.   :     3   Min.   : 1.0   Min.   :0.0000
##  1st Qu.:230659   1st Qu.:229067   1st Qu.: 6.0   1st Qu.:1.0000
##  Median :462034   Median :458969   Median :23.0   Median :1.0000
##  Mean   :462486   Mean   :459425   Mean   :22.1   Mean   :0.9848
##  3rd Qu.:693200   3rd Qu.:688435   3rd Qu.:36.0   3rd Qu.:1.0000
##  Max.   :934919   Max.   :928121   Max.   :49.0   Max.   :1.0000
##    COD_FID           STATUS_FID      DT_ACTIVE
##  Length:370135     Min.   :0.00    Length:370135
##  Class :character  1st Qu.:1.00    Class :character
##  Mode  :character  Median :1.00    Mode  :character
##                    Mean   :0.99
```

```
##                     3rd Qu.:1.00
##                     Max.   :1.00
```

```r
### START CLEANING df_1 ####

df_1_cli_fid_clean <- df_1_cli_fid

#### CLEANING DUPLICATE VALUES in df_1 ####

## check for duplicates
df_1_cli_fid_clean %>%
  summarise(TOT_ID_CLIs = n_distinct(ID_CLI)
            , TOT_ID_FIDs = n_distinct(ID_FID)
            , TOT_ID_CLIFIDs = n_distinct(paste0(as.character(ID_CLI),"-",as.character(ID_FID)))
            , TOT_ROWs = n())
```

```
##   TOT_ID_CLIs TOT_ID_FIDs TOT_ID_CLIFIDs TOT_ROWs
## 1      369472      367925         370135   370135
```

```r
#!!! NOTE:  no duplicates for combination CLI-FID !!!#

#### CLEANING DATA TYPES in df_1 ####

## formatting dates ##
df_1_cli_fid_clean <- df_1_cli_fid_clean %>%
  mutate(DT_ACTIVE = as.Date(DT_ACTIVE))

## formatting boolean as factor ##
df_1_cli_fid_clean <- df_1_cli_fid_clean %>%
  mutate(TYP_CLI_FID = as.factor(TYP_CLI_FID)) %>%
  mutate(STATUS_FID = as.factor(STATUS_FID))

#### CONSISTENCY CHECK on df1: number of fidelity subscriptions per client ####
str(df_1_cli_fid_clean)
```

```
## 'data.frame':    370135 obs. of  7 variables:
##  $ ID_CLI     : int  500 16647 835335 9557 767877 743090 768948 813156 766232 773214 ...
##  $ ID_FID     : int  814583 781106 816369 746573 741522 776971 742716 791681 739769 752897 ...
##  $ ID_NEG     : int  32 44 28 9 41 2 31 45 4 5 ...
##  $ TYP_CLI_FID: Factor w/ 2 levels "0","1": 2 2 2 2 2 2 2 2 2 2 ...
##  $ COD_FID    : chr  "PREMIUM" "PREMIUM" "PREMIUM" "PREMIUM" ...
##  $ STATUS_FID : Factor w/ 2 levels "0","1": 2 2 2 2 2 2 2 2 2 2 ...
##  $ DT_ACTIVE  : Date, format: "2019-02-23" "2019-02-02" ...
```

```r
## count the subscriptions for each client
num_fid_x_cli <- df_1_cli_fid_clean %>%
  group_by(ID_CLI) %>%
  summarise(NUM_FIDs =  n_distinct(ID_FID)
            , NUM_DATEs = n_distinct(DT_ACTIVE)
  )
?n_distinct
tot_id_cli <- n_distinct(num_fid_x_cli$ID_CLI)
```

```
## compute the distribution of number of subscriptions
dist_num_fid_x_cli <- num_fid_x_cli %>%
  group_by(NUM_FIDs, NUM_DATEs) %>%
  summarise(TOT_CLIs = n_distinct(ID_CLI)) %>%
  mutate(PERCENT_CLIs = TOT_CLIs/tot_id_cli)

dist_num_fid_x_cli
```

```
## # A tibble: 7 x 4
## # Groups:   NUM_FIDs [4]
##   NUM_FIDs NUM_DATEs TOT_CLIs PERCENT_CLIs
##      <int>     <int>    <int>        <dbl>
## 1        1         1   368833   0.998
## 2        2         1      254   0.000687
## 3        2         2      363   0.000982
## 4        3         1        7   0.0000189
## 5        3         2        8   0.0000217
## 6        3         3        5   0.0000135
## 7        4         1        2   0.00000541
```

```
#!!! NOTE: there are clients with multiple fidelity subscriptions !!!#

## let examine in details clients with multiple subscriptions

num_fid_x_cli %>% filter(NUM_FIDs == 3)
```

```
## # A tibble: 20 x 3
##     ID_CLI NUM_FIDs NUM_DATEs
##      <int>    <int>     <int>
## 1     7533        3         3
## 2    11477        3         1
## 3    68556        3         1
## 4    96537        3         1
## 5   223203        3         3
## 6   250133        3         2
## 7   311669        3         1
## 8   320880        3         2
## 9   621814        3         3
## 10  648813        3         3
## 11  662651        3         3
## 12  671097        3         2
## 13  688941        3         2
## 14  722274        3         2
## 15  736520        3         2
## 16  757759        3         2
## 17  792369        3         1
## 18  826640        3         2
## 19  859327        3         1
## 20  879261        3         1
```

```r
# each subscription can have different dates
df_1_cli_fid %>% filter(ID_CLI == 621814)
```

```
##    ID_CLI ID_FID ID_NEG TYP_CLI_FID  COD_FID STATUS_FID  DT_ACTIVE
## 1 621814 578123      1            1 STANDARD          0 2018-10-13
## 2 621814 646483     18            1 STANDARD          0 2018-11-13
## 3 621814 661124     18            1 STANDARD          1 2018-11-20
```

```r
# there could be subscriptions at the same dates [possibly for technical reasons]
df_1_cli_fid %>% filter(ID_CLI == 320880)
```

```
##    ID_CLI ID_FID ID_NEG TYP_CLI_FID  COD_FID STATUS_FID  DT_ACTIVE
## 1 320880 248462      8            1 STANDARD          0 2018-04-25
## 2 320880 250899      8            1  PREMIUM          0 2018-04-26
## 3 320880 250910      8            1 STANDARD          1 2018-04-26
```

```r
#### RESHAPING df_1 ####

## combining information

# from first subscription  --> registration date, store for registration
# from last subscription   --> type of fidelity, status
# from subscriptions count --> number of subscriptions made

df_1_cli_fid_first <- df_1_cli_fid_clean %>%
  group_by(ID_CLI) %>%
  filter(DT_ACTIVE == min(DT_ACTIVE)) %>%
  arrange(ID_FID) %>%
  filter(row_number() == 1) %>%
  ungroup() %>%
  as.data.frame()

df_1_cli_fid_last <- df_1_cli_fid_clean %>%
  group_by(ID_CLI) %>%
  filter(DT_ACTIVE == max(DT_ACTIVE)) %>%
  arrange(desc(ID_FID)) %>%
  filter(row_number() == 1) %>%
  ungroup() %>%
  as.data.frame()

df_1_cli_fid_clean <- df_1_cli_fid_last %>%
  select(ID_CLI
         , ID_FID
         , LAST_COD_FID = COD_FID
         , LAST_TYP_CLI_FID = TYP_CLI_FID
         , LAST_STATUS_FID = STATUS_FID
         , LAST_DT_ACTIVE = DT_ACTIVE) %>%
  left_join(df_1_cli_fid_first %>%
              select(ID_CLI
                     , FIRST_ID_NEG = ID_NEG
                     , FIRST_DT_ACTIVE = DT_ACTIVE)
            , by = 'ID_CLI') %>%
```

```
    left_join(num_fid_x_cli %>%
              select(ID_CLI
                     , NUM_FIDs) %>%
              mutate(NUM_FIDs = as.factor(NUM_FIDs))
            , by = 'ID_CLI')

#### EXPLORE COLUMNS of df_1 ####

### variable LAST_COD_FID ###

## compute distribution
df1_dist_codfid <- df_1_cli_fid_clean %>%
  group_by(LAST_COD_FID) %>%
  summarise(TOT_CLIs = n_distinct(ID_CLI)) %>%
  mutate(PERCENT = TOT_CLIs/sum(TOT_CLIs)) %>%
  arrange(desc(PERCENT))

df1_dist_codfid
```

```
## # A tibble: 4 x 3
##    LAST_COD_FID TOT_CLIs PERCENT
##    <chr>           <int>   <dbl>
## 1 STANDARD       289756  0.784
## 2 PREMIUM         43878  0.119
## 3 STANDARD BIZ    29148  0.0789
## 4 PREMIUM BIZ      6690  0.0181
```

```
## plot distribution
plot_df1_dist_codfid <- (
  ggplot(data=df1_dist_codfid
         , aes(x=LAST_COD_FID, y=TOT_CLIs)
  ) +
    geom_bar(stat="identity"
             , fill="steelblue") +
    theme_minimal()
)

plot_df1_dist_codfid
```
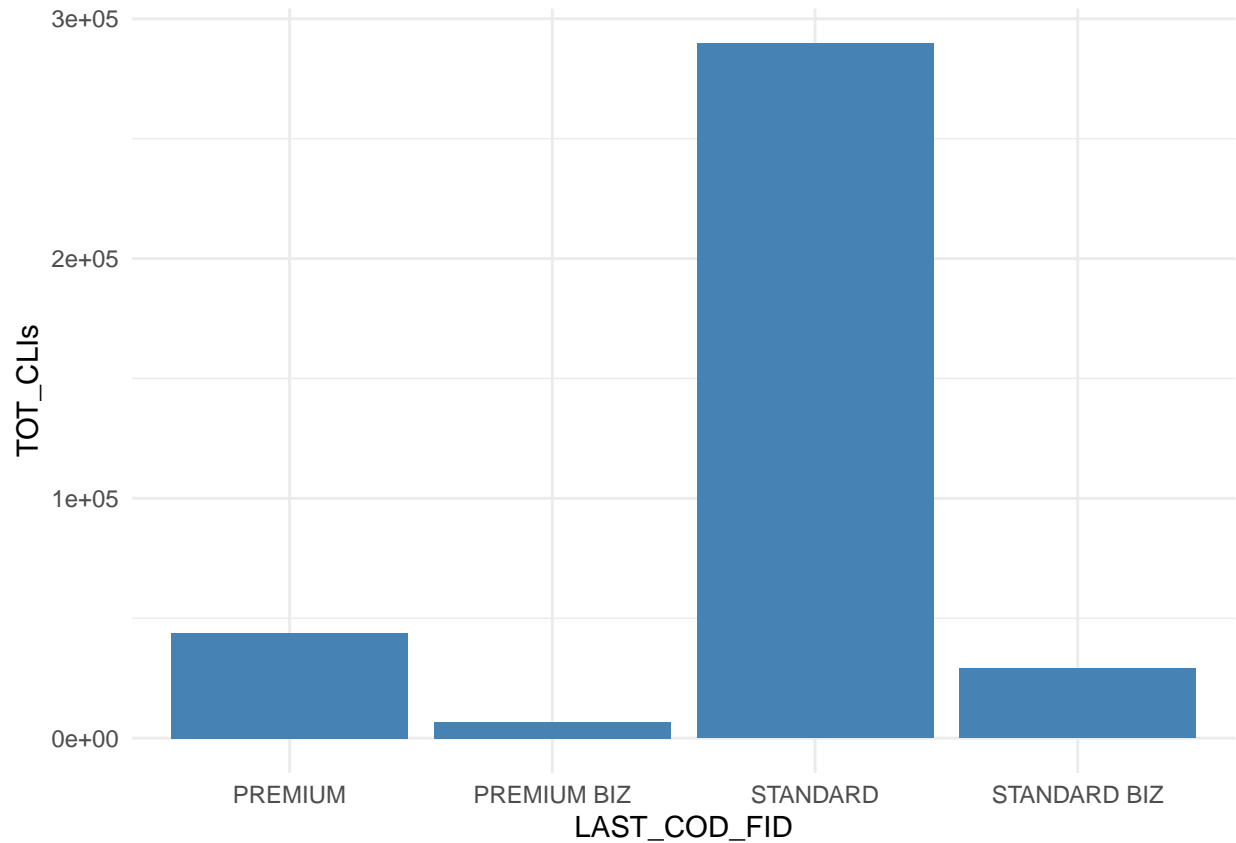
```
#### TO DO df_1 ####
# EXPLORE the remaining df_1_cli_fid_clean relevant variables

### variable NUM_FIDS ###

## compute distribution
df1_dist_codfid <- df_1_cli_fid_clean %>%
  group_by(NUM_FIDs) %>%
  summarise(TOT_CLIs = n_distinct(ID_CLI)) %>%
  mutate(PERCENT = TOT_CLIs/sum(TOT_CLIs)) %>%
  arrange(desc(PERCENT))

df1_dist_codfid
```

```
## # A tibble: 4 x 3
##   NUM_FIDs TOT_CLIs    PERCENT
##   <fct>       <int>      <dbl>
## 1 1         368833    0.998
## 2 2            617    0.00167
## 3 3             20    0.0000541
## 4 4              2    0.00000541
```

```
## plot distribution

plot_df1_dist_codfid <- (
```

```
ggplot(data=df1_dist_codfid
       , aes(x=NUM_FIDs, y=TOT_CLIs)
) +
  geom_bar(stat="identity"
           , fill="steelblue") +
  theme_minimal()
)

plot_df1_dist_codfid
```
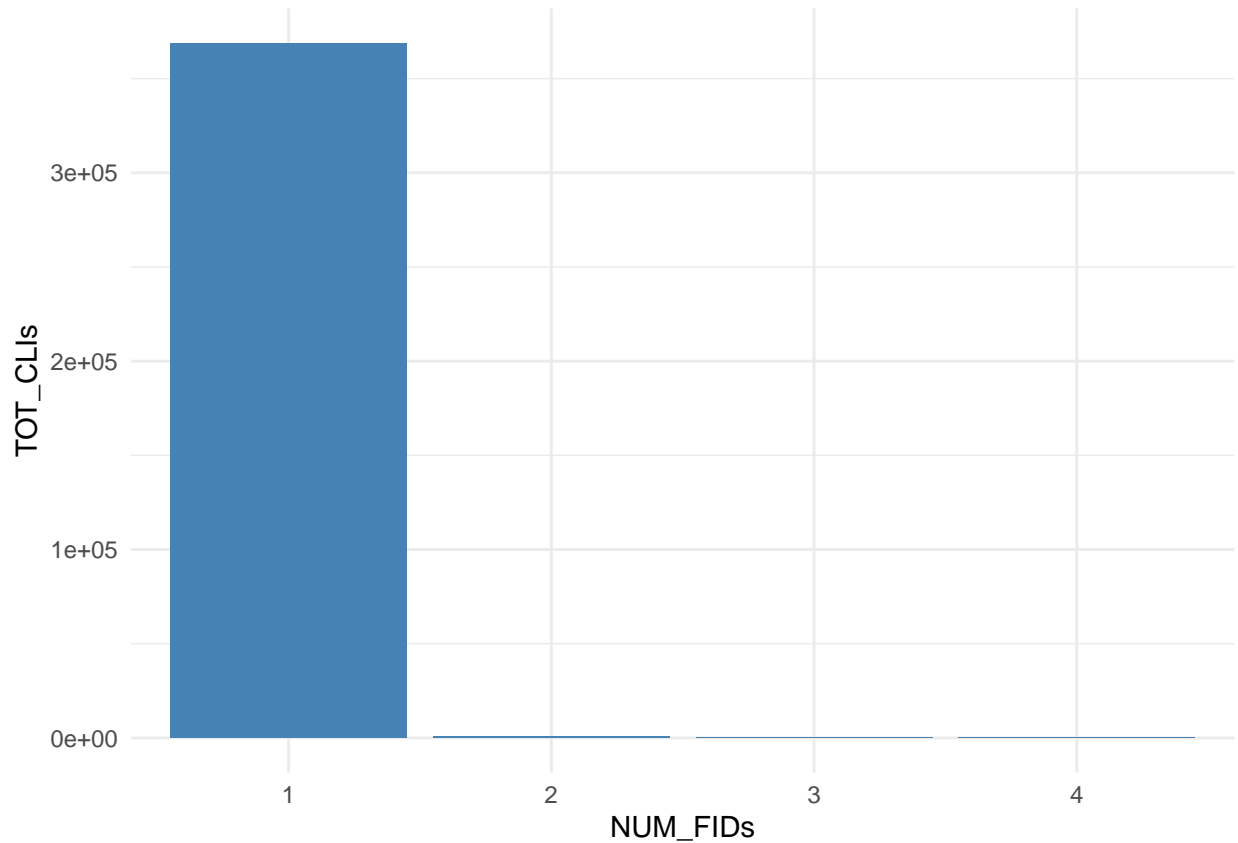


```
### variable LAST_DT_ACTIVE ###

## compute distribution
df1_dist_codfid <- df_1_cli_fid_clean %>%
  group_by(substring(LAST_DT_ACTIVE,1,4)) %>%
  summarise(TOT_CLIs = n_distinct(ID_CLI)) %>%
  mutate(PERCENT = TOT_CLIs/sum(TOT_CLIs)) %>%
  arrange(desc(PERCENT)) %>%
  rename(Year = `substring(LAST_DT_ACTIVE, 1, 4)`)

df1_dist_codfid
```

```
## # A tibble: 2 x 3
##   Year  TOT_CLIs PERCENT
##   <chr>    <int>   <dbl>
```

```
## 1 2018     294855   0.798
## 2 2019      74617   0.202
```

```
## plot distribution

plot_df1_dist_codfid <- (
  ggplot(data=df1_dist_codfid
         , aes(x=Year, y=TOT_CLIs)
  ) +
    geom_bar(stat="identity"
             , fill="steelblue") +
    theme_minimal()
)

plot_df1_dist_codfid
```
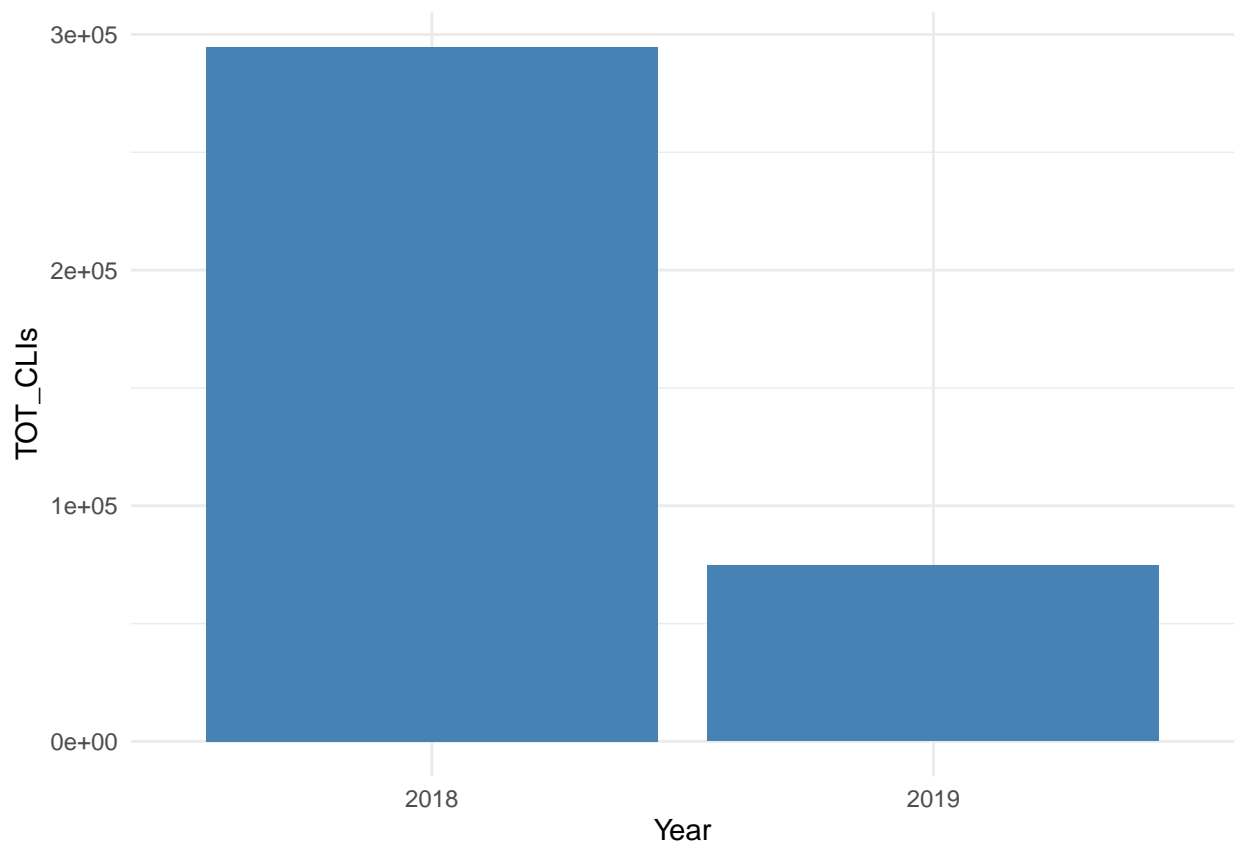


```
### variable FIRST_DT_ACTIVE ###

## compute distribution
df1_dist_codfid <- df_1_cli_fid_clean %>%
  group_by(substring(FIRST_DT_ACTIVE,1,4)) %>%
  summarise(TOT_CLIs = n_distinct(ID_CLI)) %>%
  mutate(PERCENT = TOT_CLIs/sum(TOT_CLIs)) %>%
  arrange(desc(PERCENT)) %>%
  rename(Year = `substring(FIRST_DT_ACTIVE, 1, 4)`)
```

```
df1_dist_codfid
```

```
## # A tibble: 2 x 3
##   Year  TOT_CLIs PERCENT
##   <chr>    <int>   <dbl>
## 1 2018    294954   0.798
## 2 2019     74518   0.202
```

```
## plot distribution

plot_df1_dist_codfid <- (
  ggplot(data=df1_dist_codfid
         , aes(x=Year, y=TOT_CLIs)
  ) +
    geom_bar(stat="identity"
             , fill="steelblue") +
    theme_minimal()
)

plot_df1_dist_codfid
```
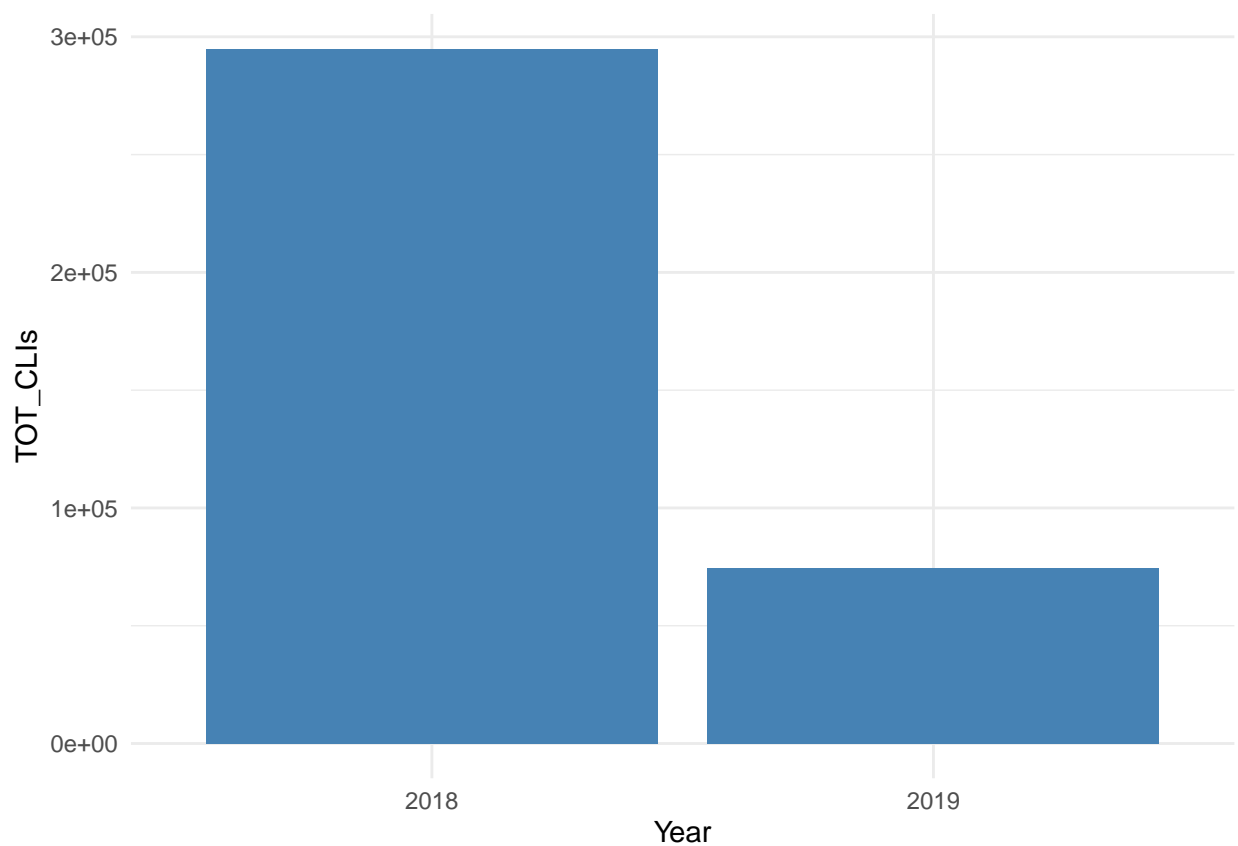


```
### variable LAST_STATUS_FID ###

## compute distribution
```

9

```r
df1_dist_codfid <- df_1_cli_fid_clean %>%
  group_by(LAST_STATUS_FID) %>%
  summarise(TOT_CLIs = n_distinct(ID_CLI)) %>%
  mutate(PERCENT = TOT_CLIs/sum(TOT_CLIs)) %>%
  arrange(desc(PERCENT))


df1_dist_codfid
```

```
## # A tibble: 2 x 3
##   LAST_STATUS_FID TOT_CLIs PERCENT
##   <fct>              <int>   <dbl>
## 1 1                 366413 0.992
## 2 0                   3059 0.00828
```

```r
## plot distribution

plot_df1_dist_codfid <- (
  ggplot(data=df1_dist_codfid
         , aes(x=LAST_STATUS_FID, y=TOT_CLIs)
  ) +
    geom_bar(stat="identity"
             , fill="steelblue") +
    theme_minimal()
)

plot_df1_dist_codfid
```

```r
str(df_1_cli_fid_clean)
```
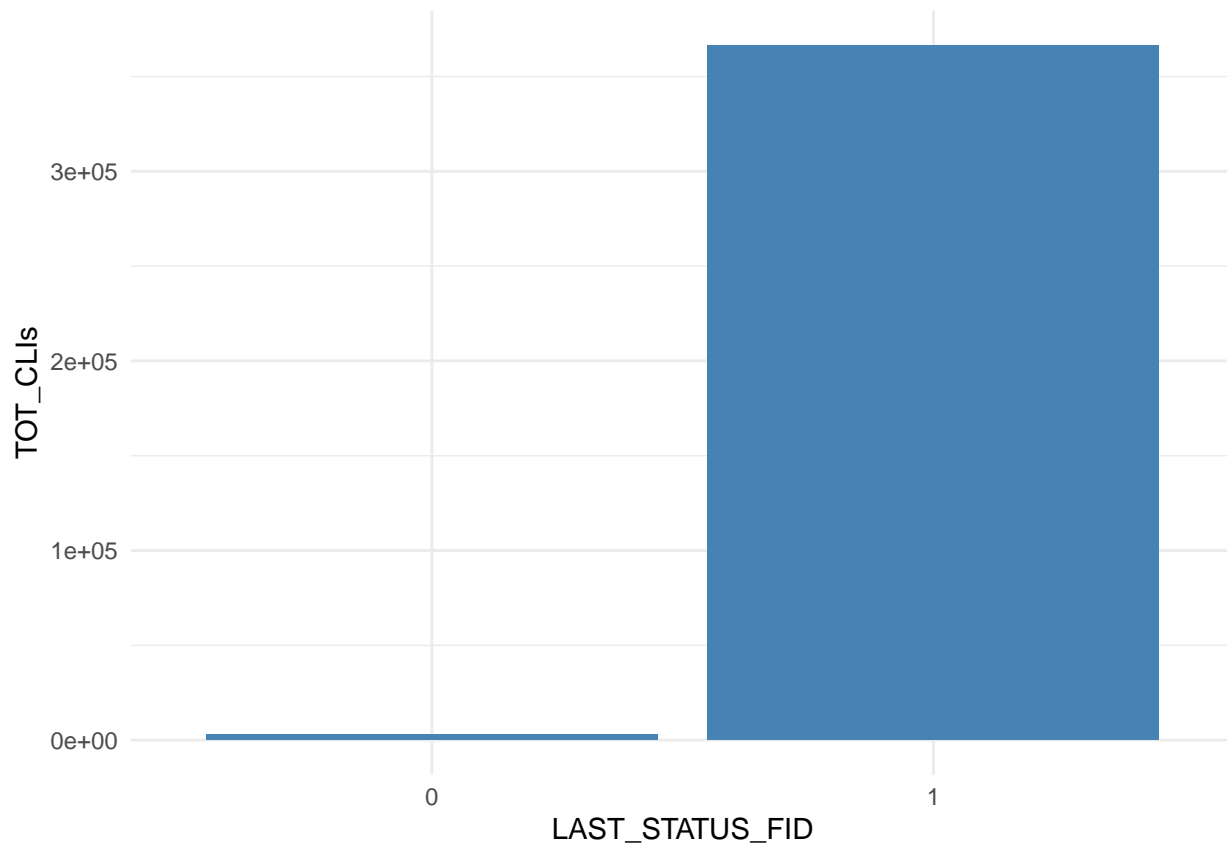
```
## 'data.frame':    369472 obs. of  9 variables:
##  $ ID_CLI         : int  199060 613049 648813 914880 342639 816890 898295 178553 918274 111479 ...
##  $ ID_FID         : int  928121 928118 928116 928115 928112 928110 928106 928101 928100 928099 ...
##  $ LAST_COD_FID   : chr  "PREMIUM BIZ" "PREMIUM" "STANDARD" "STANDARD" ...
##  $ LAST_TYP_CLI_FID: Factor w/ 2 levels "0","1": 2 2 2 2 2 2 2 2 2 2 ...
##  $ LAST_STATUS_FID : Factor w/ 2 levels "0","1": 2 2 2 2 2 2 2 2 2 1 2 ...
##  $ LAST_DT_ACTIVE  : Date, format: "2019-05-11" "2019-05-11" ...
##  $ FIRST_ID_NEG    : int  19 21 1 43 26 24 34 10 17 31 ...
##  $ FIRST_DT_ACTIVE : Date, format: "2018-02-18" "2019-03-30" ...
##  $ NUM_FIDs        : Factor w/ 4 levels "1","2","3","4": 2 2 3 2 2 2 2 2 2 2 ...
```

```r
summary(df_1_cli_fid_clean)
```

```
##      ID_CLI           ID_FID        LAST_COD_FID       LAST_TYP_CLI_FID
##  Min.   :     1   Min.   :     3   Length:369472      0:  5607
##  1st Qu.:230783   1st Qu.:228931   Class :character   1:363865
##  Median :462063   Median :458832   Mode  :character
##  Mean   :462541   Mean   :459335
##  3rd Qu.:693197   3rd Qu.:688330
##  Max.   :934919   Max.   :928121
##  LAST_STATUS_FID LAST_DT_ACTIVE        FIRST_ID_NEG  FIRST_DT_ACTIVE
```

```
##  0:  3059        Min.   :2018-01-01   Min.   : 1.0    Min.   :2018-01-01
##  1:366413        1st Qu.:2018-04-15   1st Qu.: 6.0    1st Qu.:2018-04-15
##                  Median :2018-08-10   Median :23.0    Median :2018-08-09
##                  Mean   :2018-08-14   Mean   :22.1    Mean   :2018-08-14
##                  3rd Qu.:2018-11-30   3rd Qu.:36.0    3rd Qu.:2018-11-30
##                  Max.   :2019-05-11   Max.   :49.0    Max.   :2019-04-30
##  NUM_FIDs
##  1:368833
##  2:   617
##  3:    20
##  4:     2
##
##
```

```
#_____

#### FIRST LOOK of df_2 ####

str(df_2_cli_account)
```

```
## 'data.frame':    369472 obs. of  6 variables:
##  $ ID_CLI         : int  600125 729642 304639 292497 589492 638815 658338 883322 508481 871293 ...
##  $ EMAIL_PROVIDER : chr  "libero.it" "gmail.com" "yahoo.it" "libero.it" ...
##  $ W_PHONE        : int  NA NA 1 1 NA 1 1 1 1 1 ...
##  $ ID_ADDRESS     : int  584621 714144 284176 272563 573304 622947 642716 856157 488177 847360 ...
##  $ TYP_CLI_ACCOUNT: int  4 4 4 4 2 2 4 4 4 4 ...
##  $ TYP_JOB        : chr  NA NA NA NA ...
```

```
summary(df_2_cli_account)
```

```
##       ID_CLI       EMAIL_PROVIDER       W_PHONE       ID_ADDRESS
##  Min.   :     1   Length:369472      Min.   :1      Min.   :     1
##  1st Qu.:230783   Class :character   1st Qu.:1      1st Qu.:227903
##  Median :462063   Mode  :character   Median :1      Median :456720
##  Mean   :462541                      Mean   :1      Mean   :457283
##  3rd Qu.:693197                      3rd Qu.:1      3rd Qu.:686533
##  Max.   :934919                      Max.   :1      Max.   :900091
##                                      NA's   :27305
##  TYP_CLI_ACCOUNT   TYP_JOB
##  Min.   :2.000   Length:369472
##  1st Qu.:4.000   Class :character
##  Median :4.000   Mode  :character
##  Mean   :3.806
##  3rd Qu.:4.000
##  Max.   :4.000
##
```

```
#### START CLEANING df_2 ####

df_2_cli_account_clean <- df_2_cli_account

#### CLEANING DUPLICATE VALUES in df_2 ####
```

```
## check for duplicates
df_2_cli_account_clean %>%
  summarise(TOT_ID_CLIs = n_distinct(ID_CLI)
            , TOT_ROWs = n())
```

```
##   TOT_ID_CLIs TOT_ROWs
## 1      369472   369472
```

```
#!!! NOTE:  no duplicates !!!#

#### CLEANING DATA TYPES in df_2 ####

## format boolean as factor ##
df_2_cli_account_clean <- df_2_cli_account_clean %>%
  mutate(W_PHONE = as.factor(W_PHONE))

## format numerical categories as factor ##
df_2_cli_account_clean <- df_2_cli_account_clean %>%
  mutate(TYP_CLI_ACCOUNT = as.factor(TYP_CLI_ACCOUNT))

#### CLEANING MISSING VALUES in df_2 ####

## MISSING VALUES mapped as natural values ##
df_2_cli_account_clean <- df_2_cli_account_clean %>%
  mutate(W_PHONE = fct_explicit_na(W_PHONE, "0"))

## MISSING VALUES mapped as new level in categorical columns ##
df_2_cli_account_clean <- df_2_cli_account_clean %>%
  mutate(EMAIL_PROVIDER = fct_explicit_na(EMAIL_PROVIDER, "(missing)")) %>%
  mutate(TYP_JOB = fct_explicit_na(TYP_JOB, "(missing)"))

#### CONSISTENCY CHECK ID_CLI in df_1/df_2 ####

cons_idcli_df1_df2 <- df_1_cli_fid_clean %>%
  select(ID_CLI) %>%
  mutate(is_in_df_1 = 1) %>%
  distinct() %>%
  full_join(df_2_cli_account_clean %>%
              select(ID_CLI) %>%
              mutate(is_in_df_2 = 1) %>%
              distinct()
            , by = "ID_CLI"
  ) %>%
  group_by(is_in_df_1, is_in_df_2) %>%
  summarise(NUM_ID_CLIs = n_distinct(ID_CLI)) %>%
  as.data.frame()

cons_idcli_df1_df2
```

```
##   is_in_df_1 is_in_df_2 NUM_ID_CLIs
## 1          1          1      369472
```

```
#!!! NOTE: all ID_CLI in df_1 are also in df_2 and vice-versa !!!#

#### EXPLORE COLUMNS of df_2 ####

### Variable EMAIL_PROVIDER ###

## compute distribution
df_2_dist_emailprovider <- df_2_cli_account_clean %>%
  group_by(EMAIL_PROVIDER) %>%
  summarise(TOT_CLIs = n_distinct(ID_CLI)) %>%
  mutate(PERCENT = TOT_CLIs/sum(TOT_CLIs)) %>%
  arrange(desc(PERCENT)) %>%
  as.data.frame()

df_2_dist_emailprovider
```

```
##                 EMAIL_PROVIDER TOT_CLIs       PERCENT
## 1                    gmail.com   151508 4.100663e-01
## 2                    libero.it    57782 1.563907e-01
## 3                   hotmail.it    28698 7.767300e-02
## 4                     alice.it    18127 4.906190e-02
## 5                     yahoo.it    16538 4.476117e-02
## 6                  hotmail.com    10076 2.727135e-02
## 7                  virgilio.it     9161 2.479484e-02
## 8                   tiscali.it     8733 2.363643e-02
## 9                      live.it     7936 2.147930e-02
## 10                   (missing)     5889 1.593896e-02
## 11                   icloud.com     3735 1.010902e-02
## 12                   yahoo.com     3259 8.820695e-03
## 13                     gmail.it     2266 6.133076e-03
## 14                       tin.it     2183 5.908431e-03
## 15                   outlook.it     2039 5.518686e-03
## 16                fastwebnet.it     1749 4.733782e-03
## 17                    inwind.it     1514 4.097739e-03
## 18                     email.it     1103 2.985341e-03
## 19                       me.com     1034 2.798588e-03
## 20                     live.com      837 2.265395e-03
## 21                  outlook.com      695 1.881063e-03
## 22                      msn.com      653 1.767387e-03
## 23                       tim.it      462 1.250433e-03
## 24                    ymail.com      440 1.190889e-03
## 25                    teletu.it      421 1.139464e-03
## 26                    nomail.it      396 1.071800e-03
## 27                  vodafone.it      386 1.044734e-03
## 28                   libero.com      349 9.445912e-04
## 29                       pec.it      317 8.579811e-04
## 30                      mail.ru      301 8.146761e-04
## 31                        lm.it      281 7.605448e-04
## 32                     mail.com      246 6.658150e-04
## 33                     gmai.com      240 6.495756e-04
## 34                 istruzione.it      219 5.927377e-04
## 35                 katamail.com      208 5.629655e-04
## 36                     yhaoo.it      204 5.521393e-04
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## 37                            iol.it       183 4.953014e-04
## 38                 telecomitalia.it       160 4.330504e-04
## 39                        gamil.com       135 3.653863e-04
## 40                           qq.com       126 3.410272e-04
## 41                           gdf.it       125 3.383206e-04
## 42                      legalmail.it       124 3.356141e-04
## 43                      tiscalinet.it       124 3.356141e-04
## 44                             l.it       114 3.085484e-04
## 45                         poste.it       114 3.085484e-04
## 46                        email.com       112 3.031353e-04
## 47                        alice.com       105 2.841893e-04
## 48                        icloud.it       104 2.814828e-04
## 49                        yahoo.fr        97 2.625368e-04
## 50                       nomail.com        92 2.490040e-04
## 51                          info.it        90 2.435909e-04
## 52                        gmail.co        86 2.327646e-04
## 53                       bluewin.ch        81 2.192318e-04
## 54                    rocketmail.com        74 2.002858e-04
## 55                        gimail.com        72 1.948727e-04
## 56                          gmal.com        72 1.948727e-04
## 57                        gmail.con        71 1.921661e-04
## 58                         hotmai.it        68 1.840464e-04
## 59                           mac.com        68 1.840464e-04
## 60                      aliceposta.it        67 1.813399e-04
## 61                           aol.com        66 1.786333e-04
## 62                       hotmail.fr        65 1.759267e-04
## 63                          gmil.com        64 1.732202e-04
## 64                       interfree.it        64 1.732202e-04
## 65                       yahoo.co.uk        62 1.678070e-04
## 66               intesasanpaolo.com        61 1.651005e-04
## 67                           lib.it        60 1.623939e-04
## 68                          aruba.it        58 1.569808e-04
## 69                      virgilio.com        57 1.542742e-04
## 70                      giustizia.it        52 1.407414e-04
## 71                       uniroma1.it        52 1.407414e-04
## 72                       tiscali.com        51 1.380348e-04
## 73                        fastweb.it        47 1.272086e-04
## 74                          yahoo.es        47 1.272086e-04
## 75                     googlemail.com        45 1.217954e-04
## 76                         gmial.com        44 1.190889e-04
## 77                          liber.it        38 1.028495e-04
## 78                      vigilfuoco.it        36 9.743634e-05
## 79                           aol.it        35 9.472978e-05
## 80                            blu.it        35 9.472978e-05
## 81                         homail.it        35 9.472978e-05
## 82                          ibero.it        35 9.472978e-05
## 83                         gnail.com        34 9.202321e-05
## 84                       infinito.it        34 9.202321e-05
## 85                          libeo.it        34 9.202321e-05
## 86                      unicredit.eu        34 9.202321e-05
## 87                         yahho.it        34 9.202321e-05
## 88                          enel.com        33 8.931665e-05
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## 90                          unibo.it        33 8.931665e-05
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## 95                     yhaoo.com  31 8.390352e-05
## 96                     icluod.com  30 8.119695e-05
## 97              poliziadistato.it  30 8.119695e-05
## 98                       yaoo.it  30 8.119695e-05
## 99               beniculturali.it  28 7.578382e-05
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## 101                      163.com  27 7.307726e-05
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## 103                      gmx.com  26 7.037069e-05
## 104                    gamail.com  25 6.766413e-05
## 105                    iclaud.com  25 6.766413e-05
## 106                       rai.it  25 6.766413e-05
## 107                    hmail.com  24 6.495756e-05
## 108               hotmail.co.uk  24 6.495756e-05
## 109                     unipa.it  24 6.495756e-05
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## 111                    virglio.it  23 6.225100e-05
## 112                      yhoo.it  23 6.225100e-05
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## 114                  cheapnet.it  22 5.954443e-05
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## 116                   fideuram.it  22 5.954443e-05
## 117                      gmx.de  22 5.954443e-05
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## 124                     info.com  20 5.413130e-05
## 125                     libro.it  20 5.413130e-05
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## 130                   homail.com  19 5.142474e-05
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## 135                 virgiglio.it  19 5.142474e-05
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## 143                     unina.it  18 4.871817e-05
## 144                      web.de  18 4.871817e-05
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## 169               gmaill.com   14 3.789191e-05
## 170               hotamil.it   14 3.789191e-05
## 171               hotmail.de   14 3.789191e-05
## 172                htmail.it   14 3.789191e-05
## 173                   lin.it   14 3.789191e-05
## 174               omniway.sm   14 3.789191e-05
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## 182                    g.com   13 3.518535e-05
## 183               gmaiil.com   13 3.518535e-05
## 184                 gmail.om   13 3.518535e-05
## 185                 gmail.ru   13 3.518535e-05
## 186                hotmal.it   13 3.518535e-05
## 187                icoud.com   13 3.518535e-05
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## 189                 lbero.it   13 3.518535e-05
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## 191                linero.it   13 3.518535e-05
## 192               sunrise.ch   13 3.518535e-05
## 193                 tiscli.it   13 3.518535e-05
## 194              ubibanca.it   13 3.518535e-05
## 195                  ukr.net   13 3.518535e-05
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## 197                 yaooh.it   13 3.518535e-05
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## 202                gmx.net    12 3.247878e-05
## 203            hotamail.it    12 3.247878e-05
## 204             hotmail.es    12 3.247878e-05
## 205              micso.net    12 3.247878e-05
## 206             mit.gov.it    12 3.247878e-05
## 207                mps.it    12 3.247878e-05
## 208                msm.com    12 3.247878e-05
## 209              quipo.it    12 3.247878e-05
## 210           senzamail.com    12 3.247878e-05
## 211              simail.it    12 3.247878e-05
## 212            supereva.it    12 3.247878e-05
## 213          trenitalia.it    12 3.247878e-05
## 214              unito.it    12 3.247878e-05
## 215           fatwebnet.it    11 2.977222e-05
## 216                free.fr    11 2.977222e-05
## 217            galliera.it    11 2.977222e-05
## 218           generali.com    11 2.977222e-05
## 219              gmeil.com    11 2.977222e-05
## 220            hotnail.it    11 2.977222e-05
## 221                hsr.it    11 2.977222e-05
## 222            liberto.it    11 2.977222e-05
## 223      marina.difesa.it    11 2.977222e-05
## 224             otmail.it    11 2.977222e-05
## 225            ticino.com    11 2.977222e-05
## 226            virgili.it    11 2.977222e-05
## 227           viriglio.it    11 2.977222e-05
## 228          yahoo.com.br    11 2.977222e-05
## 229                 99.com    10 2.706565e-05
## 230       bresciaonline.it    10 2.706565e-05
## 231                com.it    10 2.706565e-05
## 232              gmaol.com    10 2.706565e-05
## 233     leonardocompany.com    10 2.706565e-05
## 234                 li.it    10 2.706565e-05
## 235             libeto.it    10 2.706565e-05
## 236               live.fr    10 2.706565e-05
## 237               live.vo    10 2.706565e-05
## 238            outloock.it    10 2.706565e-05
## 239              sirti.it    10 2.706565e-05
## 240                st.com    10 2.706565e-05
## 241          stradeanas.it    10 2.706565e-05
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## 249                bt.com     9 2.435909e-05
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## 251                cri.it     9 2.435909e-05
## 252          fastewebnet.it     9 2.435909e-05
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## 257                  interia.pl      9 2.435909e-05
## 258                  it.ibm.com      9 2.435909e-05
## 259                    jahoo.it      9 2.435909e-05
## 260                   libera.it      9 2.435909e-05
## 261                    liero.it      9 2.435909e-05
## 262                 mise.gov.it      9 2.435909e-05
## 263                    nonho.it      9 2.435909e-05
## 264                  outllok.it      9 2.435909e-05
## 265          regione.sicilia.it      9 2.435909e-05
## 266                     tin.com      9 2.435909e-05
## 267                   tiscal.it      9 2.435909e-05
## 268                    unibg.it      9 2.435909e-05
## 269                  unicatt.it      9 2.435909e-05
## 270                yahoo.com.ar      9 2.435909e-05
## 271             comune.roma.it      8 2.165252e-05
## 272            comune.torino.it      8 2.165252e-05
## 273               decathlon.com      8 2.165252e-05
## 274                     gma.com      8 2.165252e-05
## 275                   gmail.net      8 2.165252e-05
## 276                   gmail.org      8 2.165252e-05
## 277                   iclud.com      8 2.165252e-05
## 278                  icolud.com      8 2.165252e-05
## 279                  it.abb.com      8 2.165252e-05
## 280                   libeor.it      8 2.165252e-05
## 281                   liberp.it      8 2.165252e-05
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## 294                    unipd.it      8 2.165252e-05
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## 305            campus.unimib.it      7 1.894596e-05
## 306            comune.genova.it      7 1.894596e-05
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## 307              comune.palermo.it    7 1.894596e-05
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## 351                        fao.org    6 1.623939e-05
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## 357                       hayoo.it    6 1.623939e-05
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## 365                   iwind.it    6 1.623939e-05
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## 367                 liobero.it    6 1.623939e-05
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## 369                 livero.it     6 1.623939e-05
## 370                llibero.it     6 1.623939e-05
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## 384                 unive.it     6 1.623939e-05
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## 814       personal_mail_provider_816     3 8.119695e-06
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## 1169    personal_mail_provider_1354         2 5.413130e-06
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## 1522        personal_mail_provider_846          2 5.413130e-06
## 1523        personal_mail_provider_847          2 5.413130e-06
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## 1532        personal_mail_provider_856          2 5.413130e-06
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## 1544        personal_mail_provider_868          2 5.413130e-06
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## 1546        personal_mail_provider_870          2 5.413130e-06
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## 1643         personal_mail_provider_967       2 5.413130e-06
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## 1674      personal_mail_provider_998        2 5.413130e-06
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## 1694    personal_mail_provider_10018        1 2.706565e-06
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## 1698    personal_mail_provider_10022        1 2.706565e-06
## 1699    personal_mail_provider_10023        1 2.706565e-06
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## 1707    personal_mail_provider_10031        1 2.706565e-06
## 1708    personal_mail_provider_10032        1 2.706565e-06
## 1709    personal_mail_provider_10033        1 2.706565e-06
## 1710    personal_mail_provider_10034        1 2.706565e-06
```

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## 1717   personal_mail_provider_10041          1 2.706565e-06
## 1718   personal_mail_provider_10042          1 2.706565e-06
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## 1740   personal_mail_provider_10064          1 2.706565e-06
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```

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## 1852  personal_mail_provider_10176        1 2.706565e-06
## 1853  personal_mail_provider_10177        1 2.706565e-06
## 1854  personal_mail_provider_10178        1 2.706565e-06
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## 1857  personal_mail_provider_10181        1 2.706565e-06
## 1858  personal_mail_provider_10182        1 2.706565e-06
## 1859  personal_mail_provider_10183        1 2.706565e-06
## 1860  personal_mail_provider_10184        1 2.706565e-06
## 1861  personal_mail_provider_10185        1 2.706565e-06
## 1862  personal_mail_provider_10186        1 2.706565e-06
## 1863  personal_mail_provider_10187        1 2.706565e-06
## 1864  personal_mail_provider_10188        1 2.706565e-06
## 1865  personal_mail_provider_10189        1 2.706565e-06
## 1866  personal_mail_provider_10190        1 2.706565e-06
## 1867  personal_mail_provider_10191        1 2.706565e-06
## 1868  personal_mail_provider_10192        1 2.706565e-06
## 1869  personal_mail_provider_10193        1 2.706565e-06
## 1870  personal_mail_provider_10194        1 2.706565e-06
## 1871  personal_mail_provider_10195        1 2.706565e-06
## 1872  personal_mail_provider_10196        1 2.706565e-06
```

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## 1874    personal_mail_provider_10198              1 2.706565e-06
## 1875    personal_mail_provider_10199              1 2.706565e-06
## 1876    personal_mail_provider_10200              1 2.706565e-06
## 1877    personal_mail_provider_10201              1 2.706565e-06
## 1878    personal_mail_provider_10202              1 2.706565e-06
## 1879    personal_mail_provider_10203              1 2.706565e-06
## 1880    personal_mail_provider_10204              1 2.706565e-06
## 1881    personal_mail_provider_10205              1 2.706565e-06
## 1882    personal_mail_provider_10206              1 2.706565e-06
## 1883    personal_mail_provider_10207              1 2.706565e-06
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## 1885    personal_mail_provider_10209              1 2.706565e-06
## 1886    personal_mail_provider_10210              1 2.706565e-06
## 1887    personal_mail_provider_10211              1 2.706565e-06
## 1888    personal_mail_provider_10212              1 2.706565e-06
## 1889    personal_mail_provider_10213              1 2.706565e-06
## 1890    personal_mail_provider_10214              1 2.706565e-06
## 1891    personal_mail_provider_10215              1 2.706565e-06
## 1892    personal_mail_provider_10216              1 2.706565e-06
## 1893    personal_mail_provider_10217              1 2.706565e-06
## 1894    personal_mail_provider_10218              1 2.706565e-06
## 1895    personal_mail_provider_10219              1 2.706565e-06
## 1896    personal_mail_provider_10220              1 2.706565e-06
## 1897    personal_mail_provider_10221              1 2.706565e-06
## 1898    personal_mail_provider_10222              1 2.706565e-06
## 1899    personal_mail_provider_10223              1 2.706565e-06
## 1900    personal_mail_provider_10224              1 2.706565e-06
## 1901    personal_mail_provider_10225              1 2.706565e-06
## 1902    personal_mail_provider_10226              1 2.706565e-06
## 1903    personal_mail_provider_10227              1 2.706565e-06
## 1904    personal_mail_provider_10228              1 2.706565e-06
## 1905    personal_mail_provider_10229              1 2.706565e-06
## 1906    personal_mail_provider_10230              1 2.706565e-06
## 1907    personal_mail_provider_10231              1 2.706565e-06
## 1908    personal_mail_provider_10232              1 2.706565e-06
## 1909    personal_mail_provider_10233              1 2.706565e-06
## 1910    personal_mail_provider_10234              1 2.706565e-06
## 1911    personal_mail_provider_10235              1 2.706565e-06
## 1912    personal_mail_provider_10236              1 2.706565e-06
## 1913    personal_mail_provider_10237              1 2.706565e-06
## 1914    personal_mail_provider_10238              1 2.706565e-06
## 1915    personal_mail_provider_10239              1 2.706565e-06
## 1916    personal_mail_provider_10240              1 2.706565e-06
## 1917    personal_mail_provider_10241              1 2.706565e-06
## 1918    personal_mail_provider_10242              1 2.706565e-06
## 1919    personal_mail_provider_10243              1 2.706565e-06
## 1920    personal_mail_provider_10244              1 2.706565e-06
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## 1922    personal_mail_provider_10246              1 2.706565e-06
## 1923    personal_mail_provider_10247              1 2.706565e-06
## 1924    personal_mail_provider_10248              1 2.706565e-06
## 1925    personal_mail_provider_10249              1 2.706565e-06
## 1926    personal_mail_provider_10250              1 2.706565e-06
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## 1931   personal_mail_provider_10255         1 2.706565e-06
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## 1933   personal_mail_provider_10257         1 2.706565e-06
## 1934   personal_mail_provider_10258         1 2.706565e-06
## 1935   personal_mail_provider_10259         1 2.706565e-06
## 1936   personal_mail_provider_10260         1 2.706565e-06
## 1937   personal_mail_provider_10261         1 2.706565e-06
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## 1967   personal_mail_provider_10291         1 2.706565e-06
## 1968   personal_mail_provider_10292         1 2.706565e-06
## 1969   personal_mail_provider_10293         1 2.706565e-06
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## 1974   personal_mail_provider_10298         1 2.706565e-06
## 1975   personal_mail_provider_10299         1 2.706565e-06
## 1976   personal_mail_provider_10300         1 2.706565e-06
## 1977   personal_mail_provider_10301         1 2.706565e-06
## 1978   personal_mail_provider_10302         1 2.706565e-06
## 1979   personal_mail_provider_10303         1 2.706565e-06
## 1980   personal_mail_provider_10304         1 2.706565e-06
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## 1987  personal_mail_provider_10311          1 2.706565e-06
## 1988  personal_mail_provider_10312          1 2.706565e-06
## 1989  personal_mail_provider_10313          1 2.706565e-06
## 1990  personal_mail_provider_10314          1 2.706565e-06
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## 2203   personal_mail_provider_10527          1 2.706565e-06
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## 2566   personal_mail_provider_10890           1 2.706565e-06
## 2567   personal_mail_provider_10891           1 2.706565e-06
## 2568   personal_mail_provider_10892           1 2.706565e-06
## 2569   personal_mail_provider_10893           1 2.706565e-06
## 2570   personal_mail_provider_10894           1 2.706565e-06
## 2571   personal_mail_provider_10895           1 2.706565e-06
## 2572   personal_mail_provider_10896           1 2.706565e-06
## 2573   personal_mail_provider_10897           1 2.706565e-06
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## 2581    personal_mail_provider_10905         1 2.706565e-06
## 2582    personal_mail_provider_10906         1 2.706565e-06
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## 2673   personal_mail_provider_10997         1 2.706565e-06
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## 2877  personal_mail_provider_11201        1 2.706565e-06
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## 6609    personal_mail_provider_14934          1 2.706565e-06
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## 6612    personal_mail_provider_14937          1 2.706565e-06
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## 6615    personal_mail_provider_14940          1 2.706565e-06
## 6616    personal_mail_provider_14941          1 2.706565e-06
## 6617    personal_mail_provider_14942          1 2.706565e-06
## 6618    personal_mail_provider_14943          1 2.706565e-06
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## 6620    personal_mail_provider_14945          1 2.706565e-06
## 6621    personal_mail_provider_14946          1 2.706565e-06
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## 11361 personal_mail_provider_19421          1 2.706565e-06
## 11362 personal_mail_provider_19422          1 2.706565e-06
## 11363 personal_mail_provider_19423          1 2.706565e-06
## 11364 personal_mail_provider_19424          1 2.706565e-06
## 11365 personal_mail_provider_19425          1 2.706565e-06
## 11366 personal_mail_provider_19426          1 2.706565e-06
## 11367 personal_mail_provider_19427          1 2.706565e-06
## 11368 personal_mail_provider_19428          1 2.706565e-06
## 11369 personal_mail_provider_19429          1 2.706565e-06
## 11370  personal_mail_provider_1943          1 2.706565e-06
## 11371 personal_mail_provider_19430          1 2.706565e-06
## 11372 personal_mail_provider_19431          1 2.706565e-06
## 11373 personal_mail_provider_19432          1 2.706565e-06
## 11374 personal_mail_provider_19433          1 2.706565e-06
## 11375 personal_mail_provider_19434          1 2.706565e-06
## 11376 personal_mail_provider_19435          1 2.706565e-06
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## 11377 personal_mail_provider_19436        1 2.706565e-06
## 11378 personal_mail_provider_19437        1 2.706565e-06
## 11379 personal_mail_provider_19438        1 2.706565e-06
## 11380 personal_mail_provider_19439        1 2.706565e-06
## 11381  personal_mail_provider_1944        1 2.706565e-06
## 11382 personal_mail_provider_19440        1 2.706565e-06
## 11383 personal_mail_provider_19441        1 2.706565e-06
## 11384 personal_mail_provider_19442        1 2.706565e-06
## 11385 personal_mail_provider_19443        1 2.706565e-06
## 11386 personal_mail_provider_19444        1 2.706565e-06
## 11387 personal_mail_provider_19445        1 2.706565e-06
## 11388 personal_mail_provider_19446        1 2.706565e-06
## 11389 personal_mail_provider_19447        1 2.706565e-06
## 11390 personal_mail_provider_19448        1 2.706565e-06
## 11391 personal_mail_provider_19449        1 2.706565e-06
## 11392  personal_mail_provider_1945        1 2.706565e-06
## 11393 personal_mail_provider_19450        1 2.706565e-06
## 11394 personal_mail_provider_19451        1 2.706565e-06
## 11395 personal_mail_provider_19452        1 2.706565e-06
## 11396 personal_mail_provider_19453        1 2.706565e-06
## 11397 personal_mail_provider_19454        1 2.706565e-06
## 11398 personal_mail_provider_19455        1 2.706565e-06
## 11399 personal_mail_provider_19456        1 2.706565e-06
## 11400 personal_mail_provider_19457        1 2.706565e-06
## 11401 personal_mail_provider_19458        1 2.706565e-06
## 11402 personal_mail_provider_19459        1 2.706565e-06
## 11403  personal_mail_provider_1946        1 2.706565e-06
## 11404 personal_mail_provider_19460        1 2.706565e-06
## 11405 personal_mail_provider_19461        1 2.706565e-06
## 11406 personal_mail_provider_19462        1 2.706565e-06
## 11407 personal_mail_provider_19463        1 2.706565e-06
## 11408 personal_mail_provider_19464        1 2.706565e-06
## 11409 personal_mail_provider_19465        1 2.706565e-06
## 11410 personal_mail_provider_19466        1 2.706565e-06
## 11411 personal_mail_provider_19467        1 2.706565e-06
## 11412 personal_mail_provider_19468        1 2.706565e-06
## 11413 personal_mail_provider_19469        1 2.706565e-06
## 11414  personal_mail_provider_1947        1 2.706565e-06
## 11415 personal_mail_provider_19470        1 2.706565e-06
## 11416 personal_mail_provider_19471        1 2.706565e-06
## 11417 personal_mail_provider_19472        1 2.706565e-06
## 11418 personal_mail_provider_19473        1 2.706565e-06
## 11419 personal_mail_provider_19474        1 2.706565e-06
## 11420 personal_mail_provider_19475        1 2.706565e-06
## 11421 personal_mail_provider_19476        1 2.706565e-06
## 11422 personal_mail_provider_19477        1 2.706565e-06
## 11423 personal_mail_provider_19478        1 2.706565e-06
## 11424 personal_mail_provider_19479        1 2.706565e-06
## 11425  personal_mail_provider_1948        1 2.706565e-06
## 11426 personal_mail_provider_19480        1 2.706565e-06
## 11427 personal_mail_provider_19481        1 2.706565e-06
## 11428 personal_mail_provider_19482        1 2.706565e-06
## 11429 personal_mail_provider_19483        1 2.706565e-06
## 11430 personal_mail_provider_19484        1 2.706565e-06
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## 11431 personal_mail_provider_19485      1 2.706565e-06
## 11432 personal_mail_provider_19486      1 2.706565e-06
## 11433 personal_mail_provider_19487      1 2.706565e-06
## 11434 personal_mail_provider_19488      1 2.706565e-06
## 11435 personal_mail_provider_19489      1 2.706565e-06
## 11436  personal_mail_provider_1949      1 2.706565e-06
## 11437 personal_mail_provider_19490      1 2.706565e-06
## 11438 personal_mail_provider_19491      1 2.706565e-06
## 11439 personal_mail_provider_19492      1 2.706565e-06
## 11440 personal_mail_provider_19493      1 2.706565e-06
## 11441 personal_mail_provider_19494      1 2.706565e-06
## 11442 personal_mail_provider_19495      1 2.706565e-06
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## 11444 personal_mail_provider_19497      1 2.706565e-06
## 11445 personal_mail_provider_19498      1 2.706565e-06
## 11446 personal_mail_provider_19499      1 2.706565e-06
## 11447  personal_mail_provider_1950      1 2.706565e-06
## 11448 personal_mail_provider_19500      1 2.706565e-06
## 11449 personal_mail_provider_19501      1 2.706565e-06
## 11450 personal_mail_provider_19502      1 2.706565e-06
## 11451 personal_mail_provider_19503      1 2.706565e-06
## 11452 personal_mail_provider_19504      1 2.706565e-06
## 11453 personal_mail_provider_19505      1 2.706565e-06
## 11454 personal_mail_provider_19506      1 2.706565e-06
## 11455 personal_mail_provider_19507      1 2.706565e-06
## 11456 personal_mail_provider_19508      1 2.706565e-06
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## 11460 personal_mail_provider_19511      1 2.706565e-06
## 11461 personal_mail_provider_19512      1 2.706565e-06
## 11462 personal_mail_provider_19513      1 2.706565e-06
## 11463 personal_mail_provider_19514      1 2.706565e-06
## 11464 personal_mail_provider_19515      1 2.706565e-06
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## 11466 personal_mail_provider_19517      1 2.706565e-06
## 11467 personal_mail_provider_19518      1 2.706565e-06
## 11468 personal_mail_provider_19519      1 2.706565e-06
## 11469  personal_mail_provider_1952      1 2.706565e-06
## 11470 personal_mail_provider_19520      1 2.706565e-06
## 11471 personal_mail_provider_19521      1 2.706565e-06
## 11472 personal_mail_provider_19522      1 2.706565e-06
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## 11479 personal_mail_provider_19529      1 2.706565e-06
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## 11481 personal_mail_provider_19530      1 2.706565e-06
## 11482 personal_mail_provider_19531      1 2.706565e-06
## 11483 personal_mail_provider_19532      1 2.706565e-06
## 11484 personal_mail_provider_19533      1 2.706565e-06
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## 11485 personal_mail_provider_19534     1 2.706565e-06
## 11486 personal_mail_provider_19535     1 2.706565e-06
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## 11489 personal_mail_provider_19538     1 2.706565e-06
## 11490 personal_mail_provider_19539     1 2.706565e-06
## 11491  personal_mail_provider_1954     1 2.706565e-06
## 11492 personal_mail_provider_19540     1 2.706565e-06
## 11493 personal_mail_provider_19541     1 2.706565e-06
## 11494 personal_mail_provider_19542     1 2.706565e-06
## 11495 personal_mail_provider_19543     1 2.706565e-06
## 11496 personal_mail_provider_19544     1 2.706565e-06
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## 11500 personal_mail_provider_19548     1 2.706565e-06
## 11501 personal_mail_provider_19549     1 2.706565e-06
## 11502  personal_mail_provider_1955     1 2.706565e-06
## 11503 personal_mail_provider_19550     1 2.706565e-06
## 11504 personal_mail_provider_19551     1 2.706565e-06
## 11505 personal_mail_provider_19552     1 2.706565e-06
## 11506 personal_mail_provider_19553     1 2.706565e-06
## 11507 personal_mail_provider_19554     1 2.706565e-06
## 11508 personal_mail_provider_19555     1 2.706565e-06
## 11509 personal_mail_provider_19556     1 2.706565e-06
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## 11512 personal_mail_provider_19559     1 2.706565e-06
## 11513  personal_mail_provider_1956     1 2.706565e-06
## 11514 personal_mail_provider_19560     1 2.706565e-06
## 11515 personal_mail_provider_19561     1 2.706565e-06
## 11516 personal_mail_provider_19562     1 2.706565e-06
## 11517 personal_mail_provider_19563     1 2.706565e-06
## 11518 personal_mail_provider_19564     1 2.706565e-06
## 11519 personal_mail_provider_19565     1 2.706565e-06
## 11520 personal_mail_provider_19566     1 2.706565e-06
## 11521 personal_mail_provider_19567     1 2.706565e-06
## 11522 personal_mail_provider_19568     1 2.706565e-06
## 11523 personal_mail_provider_19569     1 2.706565e-06
## 11524  personal_mail_provider_1957     1 2.706565e-06
## 11525 personal_mail_provider_19570     1 2.706565e-06
## 11526 personal_mail_provider_19571     1 2.706565e-06
## 11527 personal_mail_provider_19572     1 2.706565e-06
## 11528 personal_mail_provider_19573     1 2.706565e-06
## 11529 personal_mail_provider_19574     1 2.706565e-06
## 11530 personal_mail_provider_19575     1 2.706565e-06
## 11531 personal_mail_provider_19576     1 2.706565e-06
## 11532 personal_mail_provider_19577     1 2.706565e-06
## 11533 personal_mail_provider_19578     1 2.706565e-06
## 11534 personal_mail_provider_19579     1 2.706565e-06
## 11535  personal_mail_provider_1958     1 2.706565e-06
## 11536 personal_mail_provider_19580     1 2.706565e-06
## 11537 personal_mail_provider_19581     1 2.706565e-06
## 11538 personal_mail_provider_19582     1 2.706565e-06
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## 11539 personal_mail_provider_19583         1 2.706565e-06
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## 11544 personal_mail_provider_19588         1 2.706565e-06
## 11545 personal_mail_provider_19589         1 2.706565e-06
## 11546  personal_mail_provider_1959         1 2.706565e-06
## 11547 personal_mail_provider_19590         1 2.706565e-06
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## 11550 personal_mail_provider_19593         1 2.706565e-06
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## 11554 personal_mail_provider_19597         1 2.706565e-06
## 11555 personal_mail_provider_19598         1 2.706565e-06
## 11556 personal_mail_provider_19599         1 2.706565e-06
## 11557  personal_mail_provider_1960         1 2.706565e-06
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## 11559 personal_mail_provider_19601         1 2.706565e-06
## 11560 personal_mail_provider_19602         1 2.706565e-06
## 11561 personal_mail_provider_19603         1 2.706565e-06
## 11562 personal_mail_provider_19604         1 2.706565e-06
## 11563 personal_mail_provider_19605         1 2.706565e-06
## 11564 personal_mail_provider_19606         1 2.706565e-06
## 11565 personal_mail_provider_19607         1 2.706565e-06
## 11566 personal_mail_provider_19608         1 2.706565e-06
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## 11570 personal_mail_provider_19611         1 2.706565e-06
## 11571 personal_mail_provider_19612         1 2.706565e-06
## 11572 personal_mail_provider_19613         1 2.706565e-06
## 11573 personal_mail_provider_19614         1 2.706565e-06
## 11574 personal_mail_provider_19615         1 2.706565e-06
## 11575 personal_mail_provider_19616         1 2.706565e-06
## 11576 personal_mail_provider_19617         1 2.706565e-06
## 11577 personal_mail_provider_19618         1 2.706565e-06
## 11578 personal_mail_provider_19619         1 2.706565e-06
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## 11580 personal_mail_provider_19620         1 2.706565e-06
## 11581 personal_mail_provider_19621         1 2.706565e-06
## 11582 personal_mail_provider_19622         1 2.706565e-06
## 11583 personal_mail_provider_19623         1 2.706565e-06
## 11584 personal_mail_provider_19624         1 2.706565e-06
## 11585 personal_mail_provider_19625         1 2.706565e-06
## 11586 personal_mail_provider_19626         1 2.706565e-06
## 11587 personal_mail_provider_19627         1 2.706565e-06
## 11588 personal_mail_provider_19628         1 2.706565e-06
## 11589 personal_mail_provider_19629         1 2.706565e-06
## 11590  personal_mail_provider_1963         1 2.706565e-06
## 11591 personal_mail_provider_19630         1 2.706565e-06
## 11592 personal_mail_provider_19631         1 2.706565e-06
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## 11593 personal_mail_provider_19632       1 2.706565e-06
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## 11598 personal_mail_provider_19637       1 2.706565e-06
## 11599 personal_mail_provider_19638       1 2.706565e-06
## 11600 personal_mail_provider_19639       1 2.706565e-06
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## 11602 personal_mail_provider_19640       1 2.706565e-06
## 11603 personal_mail_provider_19641       1 2.706565e-06
## 11604 personal_mail_provider_19642       1 2.706565e-06
## 11605 personal_mail_provider_19643       1 2.706565e-06
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## 11613 personal_mail_provider_19650       1 2.706565e-06
## 11614 personal_mail_provider_19651       1 2.706565e-06
## 11615 personal_mail_provider_19652       1 2.706565e-06
## 11616 personal_mail_provider_19653       1 2.706565e-06
## 11617 personal_mail_provider_19654       1 2.706565e-06
## 11618 personal_mail_provider_19655       1 2.706565e-06
## 11619 personal_mail_provider_19656       1 2.706565e-06
## 11620 personal_mail_provider_19657       1 2.706565e-06
## 11621 personal_mail_provider_19658       1 2.706565e-06
## 11622 personal_mail_provider_19659       1 2.706565e-06
## 11623  personal_mail_provider_1966       1 2.706565e-06
## 11624 personal_mail_provider_19660       1 2.706565e-06
## 11625 personal_mail_provider_19661       1 2.706565e-06
## 11626 personal_mail_provider_19662       1 2.706565e-06
## 11627 personal_mail_provider_19663       1 2.706565e-06
## 11628 personal_mail_provider_19664       1 2.706565e-06
## 11629 personal_mail_provider_19665       1 2.706565e-06
## 11630 personal_mail_provider_19666       1 2.706565e-06
## 11631 personal_mail_provider_19667       1 2.706565e-06
## 11632 personal_mail_provider_19668       1 2.706565e-06
## 11633 personal_mail_provider_19669       1 2.706565e-06
## 11634  personal_mail_provider_1967       1 2.706565e-06
## 11635 personal_mail_provider_19670       1 2.706565e-06
## 11636 personal_mail_provider_19671       1 2.706565e-06
## 11637 personal_mail_provider_19672       1 2.706565e-06
## 11638 personal_mail_provider_19673       1 2.706565e-06
## 11639 personal_mail_provider_19674       1 2.706565e-06
## 11640 personal_mail_provider_19675       1 2.706565e-06
## 11641 personal_mail_provider_19676       1 2.706565e-06
## 11642 personal_mail_provider_19677       1 2.706565e-06
## 11643 personal_mail_provider_19678       1 2.706565e-06
## 11644 personal_mail_provider_19679       1 2.706565e-06
## 11645  personal_mail_provider_1968       1 2.706565e-06
## 11646 personal_mail_provider_19680       1 2.706565e-06
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## 11650 personal_mail_provider_19684        1 2.706565e-06
## 11651 personal_mail_provider_19685        1 2.706565e-06
## 11652 personal_mail_provider_19686        1 2.706565e-06
## 11653 personal_mail_provider_19687        1 2.706565e-06
## 11654 personal_mail_provider_19688        1 2.706565e-06
## 11655 personal_mail_provider_19689        1 2.706565e-06
## 11656  personal_mail_provider_1969        1 2.706565e-06
## 11657 personal_mail_provider_19690        1 2.706565e-06
## 11658 personal_mail_provider_19691        1 2.706565e-06
## 11659 personal_mail_provider_19692        1 2.706565e-06
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## 11661 personal_mail_provider_19694        1 2.706565e-06
## 11662 personal_mail_provider_19695        1 2.706565e-06
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## 11669 personal_mail_provider_19701        1 2.706565e-06
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## 11672 personal_mail_provider_19704        1 2.706565e-06
## 11673 personal_mail_provider_19705        1 2.706565e-06
## 11674 personal_mail_provider_19706        1 2.706565e-06
## 11675 personal_mail_provider_19707        1 2.706565e-06
## 11676 personal_mail_provider_19708        1 2.706565e-06
## 11677 personal_mail_provider_19709        1 2.706565e-06
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## 11680 personal_mail_provider_19711        1 2.706565e-06
## 11681 personal_mail_provider_19712        1 2.706565e-06
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## 11684 personal_mail_provider_19715        1 2.706565e-06
## 11685 personal_mail_provider_19716        1 2.706565e-06
## 11686 personal_mail_provider_19717        1 2.706565e-06
## 11687 personal_mail_provider_19718        1 2.706565e-06
## 11688 personal_mail_provider_19719        1 2.706565e-06
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## 11690 personal_mail_provider_19720        1 2.706565e-06
## 11691 personal_mail_provider_19721        1 2.706565e-06
## 11692 personal_mail_provider_19722        1 2.706565e-06
## 11693 personal_mail_provider_19723        1 2.706565e-06
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## 11695 personal_mail_provider_19725        1 2.706565e-06
## 11696 personal_mail_provider_19726        1 2.706565e-06
## 11697 personal_mail_provider_19727        1 2.706565e-06
## 11698 personal_mail_provider_19728        1 2.706565e-06
## 11699 personal_mail_provider_19729        1 2.706565e-06
## 11700  personal_mail_provider_1973        1 2.706565e-06
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## 11705 personal_mail_provider_19734       1 2.706565e-06
## 11706 personal_mail_provider_19735       1 2.706565e-06
## 11707 personal_mail_provider_19736       1 2.706565e-06
## 11708 personal_mail_provider_19737       1 2.706565e-06
## 11709 personal_mail_provider_19738       1 2.706565e-06
## 11710 personal_mail_provider_19739       1 2.706565e-06
## 11711  personal_mail_provider_1974        1 2.706565e-06
## 11712 personal_mail_provider_19740       1 2.706565e-06
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## 11714 personal_mail_provider_19742       1 2.706565e-06
## 11715 personal_mail_provider_19743       1 2.706565e-06
## 11716 personal_mail_provider_19744       1 2.706565e-06
## 11717 personal_mail_provider_19745       1 2.706565e-06
## 11718 personal_mail_provider_19746       1 2.706565e-06
## 11719 personal_mail_provider_19747       1 2.706565e-06
## 11720 personal_mail_provider_19748       1 2.706565e-06
## 11721 personal_mail_provider_19749       1 2.706565e-06
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## 11723 personal_mail_provider_19750       1 2.706565e-06
## 11724 personal_mail_provider_19751       1 2.706565e-06
## 11725 personal_mail_provider_19752       1 2.706565e-06
## 11726 personal_mail_provider_19753       1 2.706565e-06
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## 11728 personal_mail_provider_19755       1 2.706565e-06
## 11729 personal_mail_provider_19756       1 2.706565e-06
## 11730 personal_mail_provider_19757       1 2.706565e-06
## 11731 personal_mail_provider_19758       1 2.706565e-06
## 11732 personal_mail_provider_19759       1 2.706565e-06
## 11733  personal_mail_provider_1976        1 2.706565e-06
## 11734 personal_mail_provider_19760       1 2.706565e-06
## 11735 personal_mail_provider_19761       1 2.706565e-06
## 11736 personal_mail_provider_19762       1 2.706565e-06
## 11737 personal_mail_provider_19763       1 2.706565e-06
## 11738 personal_mail_provider_19764       1 2.706565e-06
## 11739 personal_mail_provider_19765       1 2.706565e-06
## 11740 personal_mail_provider_19766       1 2.706565e-06
## 11741 personal_mail_provider_19767       1 2.706565e-06
## 11742 personal_mail_provider_19768       1 2.706565e-06
## 11743 personal_mail_provider_19769       1 2.706565e-06
## 11744  personal_mail_provider_1977        1 2.706565e-06
## 11745 personal_mail_provider_19770       1 2.706565e-06
## 11746 personal_mail_provider_19771       1 2.706565e-06
## 11747 personal_mail_provider_19772       1 2.706565e-06
## 11748 personal_mail_provider_19773       1 2.706565e-06
## 11749 personal_mail_provider_19774       1 2.706565e-06
## 11750 personal_mail_provider_19775       1 2.706565e-06
## 11751 personal_mail_provider_19776       1 2.706565e-06
## 11752 personal_mail_provider_19777       1 2.706565e-06
## 11753 personal_mail_provider_19778       1 2.706565e-06
## 11754 personal_mail_provider_19779       1 2.706565e-06
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## 11759 personal_mail_provider_19783     1 2.706565e-06
## 11760 personal_mail_provider_19784     1 2.706565e-06
## 11761 personal_mail_provider_19785     1 2.706565e-06
## 11762 personal_mail_provider_19786     1 2.706565e-06
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## 11774 personal_mail_provider_19797     1 2.706565e-06
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## 12064 personal_mail_provider_20060          1 2.706565e-06
## 12065 personal_mail_provider_20061          1 2.706565e-06
## 12066 personal_mail_provider_20062          1 2.706565e-06
## 12067 personal_mail_provider_20063          1 2.706565e-06
## 12068 personal_mail_provider_20064          1 2.706565e-06
## 12069 personal_mail_provider_20065          1 2.706565e-06
## 12070 personal_mail_provider_20066          1 2.706565e-06
## 12071 personal_mail_provider_20067          1 2.706565e-06
## 12072 personal_mail_provider_20068          1 2.706565e-06
## 12073 personal_mail_provider_20069          1 2.706565e-06
## 12074  personal_mail_provider_2007          1 2.706565e-06
## 12075 personal_mail_provider_20070          1 2.706565e-06
## 12076 personal_mail_provider_20071          1 2.706565e-06
## 12077 personal_mail_provider_20072          1 2.706565e-06
## 12078 personal_mail_provider_20073          1 2.706565e-06
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## 12079 personal_mail_provider_20074          1 2.706565e-06
## 12080 personal_mail_provider_20075          1 2.706565e-06
## 12081 personal_mail_provider_20076          1 2.706565e-06
## 12082 personal_mail_provider_20077          1 2.706565e-06
## 12083 personal_mail_provider_20078          1 2.706565e-06
## 12084 personal_mail_provider_20079          1 2.706565e-06
## 12085  personal_mail_provider_2008          1 2.706565e-06
## 12086 personal_mail_provider_20080          1 2.706565e-06
## 12087 personal_mail_provider_20081          1 2.706565e-06
## 12088 personal_mail_provider_20082          1 2.706565e-06
## 12089 personal_mail_provider_20083          1 2.706565e-06
## 12090 personal_mail_provider_20084          1 2.706565e-06
## 12091 personal_mail_provider_20085          1 2.706565e-06
## 12092 personal_mail_provider_20086          1 2.706565e-06
## 12093 personal_mail_provider_20087          1 2.706565e-06
## 12094 personal_mail_provider_20088          1 2.706565e-06
## 12095 personal_mail_provider_20089          1 2.706565e-06
## 12096  personal_mail_provider_2009          1 2.706565e-06
## 12097 personal_mail_provider_20090          1 2.706565e-06
## 12098 personal_mail_provider_20091          1 2.706565e-06
## 12099 personal_mail_provider_20092          1 2.706565e-06
## 12100 personal_mail_provider_20093          1 2.706565e-06
## 12101 personal_mail_provider_20094          1 2.706565e-06
## 12102 personal_mail_provider_20095          1 2.706565e-06
## 12103 personal_mail_provider_20096          1 2.706565e-06
## 12104 personal_mail_provider_20097          1 2.706565e-06
## 12105 personal_mail_provider_20098          1 2.706565e-06
## 12106 personal_mail_provider_20099          1 2.706565e-06
## 12107  personal_mail_provider_2010          1 2.706565e-06
## 12108 personal_mail_provider_20100          1 2.706565e-06
## 12109 personal_mail_provider_20101          1 2.706565e-06
## 12110 personal_mail_provider_20102          1 2.706565e-06
## 12111 personal_mail_provider_20103          1 2.706565e-06
## 12112 personal_mail_provider_20104          1 2.706565e-06
## 12113 personal_mail_provider_20105          1 2.706565e-06
## 12114 personal_mail_provider_20106          1 2.706565e-06
## 12115 personal_mail_provider_20107          1 2.706565e-06
## 12116 personal_mail_provider_20108          1 2.706565e-06
## 12117 personal_mail_provider_20109          1 2.706565e-06
## 12118  personal_mail_provider_2011          1 2.706565e-06
## 12119 personal_mail_provider_20110          1 2.706565e-06
## 12120 personal_mail_provider_20111          1 2.706565e-06
## 12121 personal_mail_provider_20112          1 2.706565e-06
## 12122 personal_mail_provider_20113          1 2.706565e-06
## 12123 personal_mail_provider_20114          1 2.706565e-06
## 12124 personal_mail_provider_20115          1 2.706565e-06
## 12125 personal_mail_provider_20116          1 2.706565e-06
## 12126 personal_mail_provider_20117          1 2.706565e-06
## 12127 personal_mail_provider_20118          1 2.706565e-06
## 12128 personal_mail_provider_20119          1 2.706565e-06
## 12129  personal_mail_provider_2012          1 2.706565e-06
## 12130 personal_mail_provider_20120          1 2.706565e-06
## 12131 personal_mail_provider_20121          1 2.706565e-06
## 12132 personal_mail_provider_20122          1 2.706565e-06
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## 12134 personal_mail_provider_20124        1 2.706565e-06
## 12135 personal_mail_provider_20125        1 2.706565e-06
## 12136 personal_mail_provider_20126        1 2.706565e-06
## 12137 personal_mail_provider_20127        1 2.706565e-06
## 12138 personal_mail_provider_20128        1 2.706565e-06
## 12139 personal_mail_provider_20129        1 2.706565e-06
## 12140  personal_mail_provider_2013        1 2.706565e-06
## 12141 personal_mail_provider_20130        1 2.706565e-06
## 12142 personal_mail_provider_20131        1 2.706565e-06
## 12143 personal_mail_provider_20132        1 2.706565e-06
## 12144 personal_mail_provider_20133        1 2.706565e-06
## 12145 personal_mail_provider_20134        1 2.706565e-06
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## 12150 personal_mail_provider_20139        1 2.706565e-06
## 12151  personal_mail_provider_2014        1 2.706565e-06
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## 12153 personal_mail_provider_20141        1 2.706565e-06
## 12154 personal_mail_provider_20142        1 2.706565e-06
## 12155 personal_mail_provider_20143        1 2.706565e-06
## 12156 personal_mail_provider_20144        1 2.706565e-06
## 12157 personal_mail_provider_20145        1 2.706565e-06
## 12158 personal_mail_provider_20146        1 2.706565e-06
## 12159 personal_mail_provider_20147        1 2.706565e-06
## 12160 personal_mail_provider_20148        1 2.706565e-06
## 12161 personal_mail_provider_20149        1 2.706565e-06
## 12162  personal_mail_provider_2015        1 2.706565e-06
## 12163 personal_mail_provider_20150        1 2.706565e-06
## 12164 personal_mail_provider_20151        1 2.706565e-06
## 12165 personal_mail_provider_20152        1 2.706565e-06
## 12166 personal_mail_provider_20153        1 2.706565e-06
## 12167 personal_mail_provider_20154        1 2.706565e-06
## 12168 personal_mail_provider_20155        1 2.706565e-06
## 12169 personal_mail_provider_20156        1 2.706565e-06
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## 12171 personal_mail_provider_20158        1 2.706565e-06
## 12172 personal_mail_provider_20159        1 2.706565e-06
## 12173  personal_mail_provider_2016        1 2.706565e-06
## 12174 personal_mail_provider_20160        1 2.706565e-06
## 12175 personal_mail_provider_20161        1 2.706565e-06
## 12176 personal_mail_provider_20162        1 2.706565e-06
## 12177 personal_mail_provider_20163        1 2.706565e-06
## 12178 personal_mail_provider_20164        1 2.706565e-06
## 12179 personal_mail_provider_20165        1 2.706565e-06
## 12180 personal_mail_provider_20166        1 2.706565e-06
## 12181 personal_mail_provider_20167        1 2.706565e-06
## 12182 personal_mail_provider_20168        1 2.706565e-06
## 12183 personal_mail_provider_20169        1 2.706565e-06
## 12184  personal_mail_provider_2017        1 2.706565e-06
## 12185 personal_mail_provider_20170        1 2.706565e-06
## 12186 personal_mail_provider_20171        1 2.706565e-06
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## 12187 personal_mail_provider_20172     1 2.706565e-06
## 12188 personal_mail_provider_20173     1 2.706565e-06
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## 12190 personal_mail_provider_20175     1 2.706565e-06
## 12191 personal_mail_provider_20176     1 2.706565e-06
## 12192 personal_mail_provider_20177     1 2.706565e-06
## 12193 personal_mail_provider_20178     1 2.706565e-06
## 12194 personal_mail_provider_20179     1 2.706565e-06
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## 12196 personal_mail_provider_20180     1 2.706565e-06
## 12197 personal_mail_provider_20181     1 2.706565e-06
## 12198 personal_mail_provider_20182     1 2.706565e-06
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## 12202 personal_mail_provider_20186     1 2.706565e-06
## 12203 personal_mail_provider_20187     1 2.706565e-06
## 12204 personal_mail_provider_20188     1 2.706565e-06
## 12205 personal_mail_provider_20189     1 2.706565e-06
## 12206  personal_mail_provider_2019     1 2.706565e-06
## 12207 personal_mail_provider_20190     1 2.706565e-06
## 12208 personal_mail_provider_20191     1 2.706565e-06
## 12209 personal_mail_provider_20192     1 2.706565e-06
## 12210 personal_mail_provider_20193     1 2.706565e-06
## 12211 personal_mail_provider_20194     1 2.706565e-06
## 12212 personal_mail_provider_20195     1 2.706565e-06
## 12213 personal_mail_provider_20196     1 2.706565e-06
## 12214 personal_mail_provider_20197     1 2.706565e-06
## 12215 personal_mail_provider_20198     1 2.706565e-06
## 12216 personal_mail_provider_20199     1 2.706565e-06
## 12217  personal_mail_provider_2020     1 2.706565e-06
## 12218 personal_mail_provider_20200     1 2.706565e-06
## 12219 personal_mail_provider_20201     1 2.706565e-06
## 12220 personal_mail_provider_20202     1 2.706565e-06
## 12221 personal_mail_provider_20203     1 2.706565e-06
## 12222 personal_mail_provider_20204     1 2.706565e-06
## 12223 personal_mail_provider_20205     1 2.706565e-06
## 12224 personal_mail_provider_20206     1 2.706565e-06
## 12225 personal_mail_provider_20207     1 2.706565e-06
## 12226 personal_mail_provider_20208     1 2.706565e-06
## 12227 personal_mail_provider_20209     1 2.706565e-06
## 12228  personal_mail_provider_2021     1 2.706565e-06
## 12229 personal_mail_provider_20210     1 2.706565e-06
## 12230 personal_mail_provider_20211     1 2.706565e-06
## 12231 personal_mail_provider_20212     1 2.706565e-06
## 12232 personal_mail_provider_20213     1 2.706565e-06
## 12233 personal_mail_provider_20214     1 2.706565e-06
## 12234 personal_mail_provider_20215     1 2.706565e-06
## 12235 personal_mail_provider_20216     1 2.706565e-06
## 12236 personal_mail_provider_20217     1 2.706565e-06
## 12237 personal_mail_provider_20218     1 2.706565e-06
## 12238 personal_mail_provider_20219     1 2.706565e-06
## 12239  personal_mail_provider_2022     1 2.706565e-06
## 12240 personal_mail_provider_20220     1 2.706565e-06
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## 12241 personal_mail_provider_20221         1 2.706565e-06
## 12242 personal_mail_provider_20222         1 2.706565e-06
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## 12244 personal_mail_provider_20224         1 2.706565e-06
## 12245 personal_mail_provider_20225         1 2.706565e-06
## 12246 personal_mail_provider_20226         1 2.706565e-06
## 12247 personal_mail_provider_20227         1 2.706565e-06
## 12248 personal_mail_provider_20228         1 2.706565e-06
## 12249 personal_mail_provider_20229         1 2.706565e-06
## 12250  personal_mail_provider_2023         1 2.706565e-06
## 12251 personal_mail_provider_20230         1 2.706565e-06
## 12252 personal_mail_provider_20231         1 2.706565e-06
## 12253 personal_mail_provider_20232         1 2.706565e-06
## 12254 personal_mail_provider_20233         1 2.706565e-06
## 12255 personal_mail_provider_20234         1 2.706565e-06
## 12256 personal_mail_provider_20235         1 2.706565e-06
## 12257 personal_mail_provider_20236         1 2.706565e-06
## 12258 personal_mail_provider_20237         1 2.706565e-06
## 12259 personal_mail_provider_20238         1 2.706565e-06
## 12260 personal_mail_provider_20239         1 2.706565e-06
## 12261  personal_mail_provider_2024         1 2.706565e-06
## 12262 personal_mail_provider_20240         1 2.706565e-06
## 12263 personal_mail_provider_20241         1 2.706565e-06
## 12264 personal_mail_provider_20242         1 2.706565e-06
## 12265 personal_mail_provider_20243         1 2.706565e-06
## 12266 personal_mail_provider_20244         1 2.706565e-06
## 12267 personal_mail_provider_20245         1 2.706565e-06
## 12268 personal_mail_provider_20246         1 2.706565e-06
## 12269 personal_mail_provider_20247         1 2.706565e-06
## 12270 personal_mail_provider_20248         1 2.706565e-06
## 12271 personal_mail_provider_20249         1 2.706565e-06
## 12272  personal_mail_provider_2025         1 2.706565e-06
## 12273 personal_mail_provider_20250         1 2.706565e-06
## 12274 personal_mail_provider_20251         1 2.706565e-06
## 12275 personal_mail_provider_20252         1 2.706565e-06
## 12276 personal_mail_provider_20253         1 2.706565e-06
## 12277 personal_mail_provider_20254         1 2.706565e-06
## 12278 personal_mail_provider_20255         1 2.706565e-06
## 12279 personal_mail_provider_20256         1 2.706565e-06
## 12280 personal_mail_provider_20257         1 2.706565e-06
## 12281 personal_mail_provider_20258         1 2.706565e-06
## 12282 personal_mail_provider_20259         1 2.706565e-06
## 12283  personal_mail_provider_2026         1 2.706565e-06
## 12284 personal_mail_provider_20260         1 2.706565e-06
## 12285 personal_mail_provider_20261         1 2.706565e-06
## 12286 personal_mail_provider_20262         1 2.706565e-06
## 12287 personal_mail_provider_20263         1 2.706565e-06
## 12288 personal_mail_provider_20264         1 2.706565e-06
## 12289 personal_mail_provider_20265         1 2.706565e-06
## 12290 personal_mail_provider_20266         1 2.706565e-06
## 12291 personal_mail_provider_20267         1 2.706565e-06
## 12292 personal_mail_provider_20268         1 2.706565e-06
## 12293 personal_mail_provider_20269         1 2.706565e-06
## 12294  personal_mail_provider_2027         1 2.706565e-06
```

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## 12296 personal_mail_provider_20271          1 2.706565e-06
## 12297 personal_mail_provider_20272          1 2.706565e-06
## 12298 personal_mail_provider_20273          1 2.706565e-06
## 12299 personal_mail_provider_20274          1 2.706565e-06
## 12300 personal_mail_provider_20275          1 2.706565e-06
## 12301 personal_mail_provider_20276          1 2.706565e-06
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## 12303 personal_mail_provider_20278          1 2.706565e-06
## 12304 personal_mail_provider_20279          1 2.706565e-06
## 12305  personal_mail_provider_2028          1 2.706565e-06
## 12306 personal_mail_provider_20280          1 2.706565e-06
## 12307 personal_mail_provider_20281          1 2.706565e-06
## 12308 personal_mail_provider_20282          1 2.706565e-06
## 12309 personal_mail_provider_20283          1 2.706565e-06
## 12310 personal_mail_provider_20284          1 2.706565e-06
## 12311 personal_mail_provider_20285          1 2.706565e-06
## 12312 personal_mail_provider_20286          1 2.706565e-06
## 12313 personal_mail_provider_20287          1 2.706565e-06
## 12314 personal_mail_provider_20288          1 2.706565e-06
## 12315 personal_mail_provider_20289          1 2.706565e-06
## 12316  personal_mail_provider_2029          1 2.706565e-06
## 12317 personal_mail_provider_20290          1 2.706565e-06
## 12318 personal_mail_provider_20291          1 2.706565e-06
## 12319 personal_mail_provider_20292          1 2.706565e-06
## 12320 personal_mail_provider_20293          1 2.706565e-06
## 12321 personal_mail_provider_20294          1 2.706565e-06
## 12322 personal_mail_provider_20295          1 2.706565e-06
## 12323 personal_mail_provider_20296          1 2.706565e-06
## 12324 personal_mail_provider_20297          1 2.706565e-06
## 12325 personal_mail_provider_20298          1 2.706565e-06
## 12326 personal_mail_provider_20299          1 2.706565e-06
## 12327  personal_mail_provider_2030          1 2.706565e-06
## 12328 personal_mail_provider_20300          1 2.706565e-06
## 12329 personal_mail_provider_20301          1 2.706565e-06
## 12330 personal_mail_provider_20302          1 2.706565e-06
## 12331 personal_mail_provider_20303          1 2.706565e-06
## 12332 personal_mail_provider_20304          1 2.706565e-06
## 12333 personal_mail_provider_20305          1 2.706565e-06
## 12334 personal_mail_provider_20306          1 2.706565e-06
## 12335 personal_mail_provider_20307          1 2.706565e-06
## 12336 personal_mail_provider_20308          1 2.706565e-06
## 12337 personal_mail_provider_20309          1 2.706565e-06
## 12338  personal_mail_provider_2031          1 2.706565e-06
## 12339 personal_mail_provider_20310          1 2.706565e-06
## 12340 personal_mail_provider_20311          1 2.706565e-06
## 12341 personal_mail_provider_20312          1 2.706565e-06
## 12342 personal_mail_provider_20313          1 2.706565e-06
## 12343 personal_mail_provider_20314          1 2.706565e-06
## 12344 personal_mail_provider_20315          1 2.706565e-06
## 12345 personal_mail_provider_20316          1 2.706565e-06
## 12346 personal_mail_provider_20317          1 2.706565e-06
## 12347 personal_mail_provider_20318          1 2.706565e-06
## 12348 personal_mail_provider_20319          1 2.706565e-06
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## 12350 personal_mail_provider_20320     1 2.706565e-06
## 12351 personal_mail_provider_20321     1 2.706565e-06
## 12352 personal_mail_provider_20322     1 2.706565e-06
## 12353 personal_mail_provider_20323     1 2.706565e-06
## 12354 personal_mail_provider_20324     1 2.706565e-06
## 12355 personal_mail_provider_20325     1 2.706565e-06
## 12356 personal_mail_provider_20326     1 2.706565e-06
## 12357 personal_mail_provider_20327     1 2.706565e-06
## 12358 personal_mail_provider_20328     1 2.706565e-06
## 12359 personal_mail_provider_20329     1 2.706565e-06
## 12360  personal_mail_provider_2033     1 2.706565e-06
## 12361 personal_mail_provider_20330     1 2.706565e-06
## 12362 personal_mail_provider_20331     1 2.706565e-06
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## 12370 personal_mail_provider_20339     1 2.706565e-06
## 12371  personal_mail_provider_2034     1 2.706565e-06
## 12372 personal_mail_provider_20340     1 2.706565e-06
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## 12379 personal_mail_provider_20347     1 2.706565e-06
## 12380 personal_mail_provider_20348     1 2.706565e-06
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## 12397 personal_mail_provider_20363     1 2.706565e-06
## 12398 personal_mail_provider_20364     1 2.706565e-06
## 12399 personal_mail_provider_20365     1 2.706565e-06
## 12400 personal_mail_provider_20366     1 2.706565e-06
## 12401 personal_mail_provider_20367     1 2.706565e-06
## 12402 personal_mail_provider_20368     1 2.706565e-06
```

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## 12403 personal_mail_provider_20369       1 2.706565e-06
## 12404  personal_mail_provider_2037       1 2.706565e-06
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## 12406 personal_mail_provider_20371       1 2.706565e-06
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## 12408 personal_mail_provider_20373       1 2.706565e-06
## 12409 personal_mail_provider_20374       1 2.706565e-06
## 12410 personal_mail_provider_20375       1 2.706565e-06
## 12411 personal_mail_provider_20376       1 2.706565e-06
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## 12413 personal_mail_provider_20378       1 2.706565e-06
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## 12417 personal_mail_provider_20381       1 2.706565e-06
## 12418 personal_mail_provider_20382       1 2.706565e-06
## 12419 personal_mail_provider_20383       1 2.706565e-06
## 12420 personal_mail_provider_20384       1 2.706565e-06
## 12421 personal_mail_provider_20385       1 2.706565e-06
## 12422 personal_mail_provider_20386       1 2.706565e-06
## 12423 personal_mail_provider_20387       1 2.706565e-06
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## 12425 personal_mail_provider_20389       1 2.706565e-06
## 12426  personal_mail_provider_2039       1 2.706565e-06
## 12427 personal_mail_provider_20390       1 2.706565e-06
## 12428 personal_mail_provider_20391       1 2.706565e-06
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## 12430 personal_mail_provider_20393       1 2.706565e-06
## 12431 personal_mail_provider_20394       1 2.706565e-06
## 12432 personal_mail_provider_20395       1 2.706565e-06
## 12433 personal_mail_provider_20396       1 2.706565e-06
## 12434 personal_mail_provider_20397       1 2.706565e-06
## 12435 personal_mail_provider_20398       1 2.706565e-06
## 12436 personal_mail_provider_20399       1 2.706565e-06
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## 12439 personal_mail_provider_20401       1 2.706565e-06
## 12440 personal_mail_provider_20402       1 2.706565e-06
## 12441 personal_mail_provider_20403       1 2.706565e-06
## 12442 personal_mail_provider_20404       1 2.706565e-06
## 12443 personal_mail_provider_20405       1 2.706565e-06
## 12444 personal_mail_provider_20406       1 2.706565e-06
## 12445 personal_mail_provider_20407       1 2.706565e-06
## 12446 personal_mail_provider_20408       1 2.706565e-06
## 12447 personal_mail_provider_20409       1 2.706565e-06
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## 12449 personal_mail_provider_20410       1 2.706565e-06
## 12450 personal_mail_provider_20411       1 2.706565e-06
## 12451 personal_mail_provider_20412       1 2.706565e-06
## 12452 personal_mail_provider_20413       1 2.706565e-06
## 12453 personal_mail_provider_20414       1 2.706565e-06
## 12454 personal_mail_provider_20415       1 2.706565e-06
## 12455 personal_mail_provider_20416       1 2.706565e-06
## 12456 personal_mail_provider_20417       1 2.706565e-06
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## 12463 personal_mail_provider_20423         1 2.706565e-06
## 12464 personal_mail_provider_20424         1 2.706565e-06
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## 12510 personal_mail_provider_20466         1 2.706565e-06
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## 12552 personal_mail_provider_20504      1 2.706565e-06
## 12553 personal_mail_provider_20505      1 2.706565e-06
## 12554 personal_mail_provider_20506      1 2.706565e-06
## 12555 personal_mail_provider_20507      1 2.706565e-06
## 12556 personal_mail_provider_20508      1 2.706565e-06
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## 12560 personal_mail_provider_20511      1 2.706565e-06
## 12561 personal_mail_provider_20512      1 2.706565e-06
## 12562 personal_mail_provider_20513      1 2.706565e-06
## 12563 personal_mail_provider_20514      1 2.706565e-06
## 12564 personal_mail_provider_20515      1 2.706565e-06
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## 12755      personal_mail_provider_2242           1 2.706565e-06
## 12756      personal_mail_provider_2243           1 2.706565e-06
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## 12761      personal_mail_provider_2248           1 2.706565e-06
## 12762      personal_mail_provider_2249           1 2.706565e-06
## 12763      personal_mail_provider_2250           1 2.706565e-06
## 12764      personal_mail_provider_2251           1 2.706565e-06
## 12765      personal_mail_provider_2252           1 2.706565e-06
## 12766      personal_mail_provider_2253           1 2.706565e-06
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## 12773      personal_mail_provider_2260           1 2.706565e-06
## 12774      personal_mail_provider_2261           1 2.706565e-06
## 12775      personal_mail_provider_2262           1 2.706565e-06
## 12776      personal_mail_provider_2263           1 2.706565e-06
## 12777      personal_mail_provider_2264           1 2.706565e-06
## 12778      personal_mail_provider_2265           1 2.706565e-06
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## 13096   personal_mail_provider_2583        1 2.706565e-06
## 13097   personal_mail_provider_2584        1 2.706565e-06
## 13098   personal_mail_provider_2585        1 2.706565e-06
## 13099   personal_mail_provider_2586        1 2.706565e-06
## 13100   personal_mail_provider_2587        1 2.706565e-06
## 13101   personal_mail_provider_2588        1 2.706565e-06
## 13102   personal_mail_provider_2589        1 2.706565e-06
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## 13104   personal_mail_provider_2591        1 2.706565e-06
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## 13112   personal_mail_provider_2599        1 2.706565e-06
## 13113   personal_mail_provider_2600        1 2.706565e-06
## 13114   personal_mail_provider_2601        1 2.706565e-06
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## 13117   personal_mail_provider_2604        1 2.706565e-06
## 13118   personal_mail_provider_2605        1 2.706565e-06
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## 13440   personal_mail_provider_2927        1 2.706565e-06
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## 13442   personal_mail_provider_2929        1 2.706565e-06
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## 13455   personal_mail_provider_2942        1 2.706565e-06
## 13456   personal_mail_provider_2943        1 2.706565e-06
## 13457   personal_mail_provider_2944        1 2.706565e-06
## 13458   personal_mail_provider_2945        1 2.706565e-06
## 13459   personal_mail_provider_2946        1 2.706565e-06
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## 13463   personal_mail_provider_2950        1 2.706565e-06
## 13464   personal_mail_provider_2951        1 2.706565e-06
## 13465   personal_mail_provider_2952        1 2.706565e-06
## 13466   personal_mail_provider_2953        1 2.706565e-06
## 13467   personal_mail_provider_2954        1 2.706565e-06
## 13468   personal_mail_provider_2955        1 2.706565e-06
## 13469   personal_mail_provider_2956        1 2.706565e-06
## 13470   personal_mail_provider_2957        1 2.706565e-06
## 13471   personal_mail_provider_2958        1 2.706565e-06
## 13472   personal_mail_provider_2959        1 2.706565e-06
## 13473   personal_mail_provider_2960        1 2.706565e-06
## 13474   personal_mail_provider_2961        1 2.706565e-06
## 13475   personal_mail_provider_2962        1 2.706565e-06
## 13476   personal_mail_provider_2963        1 2.706565e-06
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## 13478   personal_mail_provider_2965        1 2.706565e-06
## 13479   personal_mail_provider_2966        1 2.706565e-06
## 13480   personal_mail_provider_2967        1 2.706565e-06
## 13481   personal_mail_provider_2968        1 2.706565e-06
## 13482   personal_mail_provider_2969        1 2.706565e-06
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## 13487    personal_mail_provider_2974         1 2.706565e-06
## 13488    personal_mail_provider_2975         1 2.706565e-06
## 13489    personal_mail_provider_2976         1 2.706565e-06
## 13490    personal_mail_provider_2977         1 2.706565e-06
## 13491    personal_mail_provider_2978         1 2.706565e-06
## 13492    personal_mail_provider_2979         1 2.706565e-06
## 13493    personal_mail_provider_2980         1 2.706565e-06
## 13494    personal_mail_provider_2981         1 2.706565e-06
## 13495    personal_mail_provider_2982         1 2.706565e-06
## 13496    personal_mail_provider_2983         1 2.706565e-06
## 13497    personal_mail_provider_2984         1 2.706565e-06
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## 13499    personal_mail_provider_2986         1 2.706565e-06
## 13500    personal_mail_provider_2987         1 2.706565e-06
## 13501    personal_mail_provider_2988         1 2.706565e-06
## 13502    personal_mail_provider_2989         1 2.706565e-06
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## 13505    personal_mail_provider_2992         1 2.706565e-06
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## 13590   personal_mail_provider_3077          1 2.706565e-06
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## 13777   personal_mail_provider_3264       1 2.706565e-06
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## 13788   personal_mail_provider_3275       1 2.706565e-06
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## 13797   personal_mail_provider_3284       1 2.706565e-06
## 13798   personal_mail_provider_3285       1 2.706565e-06
## 13799   personal_mail_provider_3286       1 2.706565e-06
## 13800   personal_mail_provider_3287       1 2.706565e-06
## 13801   personal_mail_provider_3288       1 2.706565e-06
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## 13803   personal_mail_provider_3290       1 2.706565e-06
## 13804   personal_mail_provider_3291       1 2.706565e-06
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## 15476    personal_mail_provider_4963          1 2.706565e-06
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## 15478    personal_mail_provider_4965          1 2.706565e-06
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## 16494      personal_mail_provider_5981          1 2.706565e-06
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## 17826    personal_mail_provider_7313          1 2.706565e-06
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## 19174    personal_mail_provider_8661         1 2.706565e-06
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## 19176    personal_mail_provider_8663         1 2.706565e-06
## 19177    personal_mail_provider_8664         1 2.706565e-06
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## 19180    personal_mail_provider_8667         1 2.706565e-06
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## 19252    personal_mail_provider_8739        1 2.706565e-06
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## 19314    personal_mail_provider_8801        1 2.706565e-06
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## 19515    personal_mail_provider_9002          1 2.706565e-06
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## 19527    personal_mail_provider_9014          1 2.706565e-06
## 19528    personal_mail_provider_9015          1 2.706565e-06
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## 20179       personal_mail_provider_9666          1 2.706565e-06
## 20180       personal_mail_provider_9667          1 2.706565e-06
## 20181       personal_mail_provider_9668          1 2.706565e-06
## 20182       personal_mail_provider_9669          1 2.706565e-06
## 20183       personal_mail_provider_9670          1 2.706565e-06
## 20184       personal_mail_provider_9671          1 2.706565e-06
## 20185       personal_mail_provider_9672          1 2.706565e-06
## 20186       personal_mail_provider_9673          1 2.706565e-06
## 20187       personal_mail_provider_9674          1 2.706565e-06
## 20188       personal_mail_provider_9675          1 2.706565e-06
## 20189       personal_mail_provider_9676          1 2.706565e-06
## 20190       personal_mail_provider_9677          1 2.706565e-06
## 20191       personal_mail_provider_9678          1 2.706565e-06
## 20192       personal_mail_provider_9679          1 2.706565e-06
## 20193       personal_mail_provider_9680          1 2.706565e-06
## 20194       personal_mail_provider_9681          1 2.706565e-06
## 20195       personal_mail_provider_9682          1 2.706565e-06
## 20196       personal_mail_provider_9683          1 2.706565e-06
## 20197       personal_mail_provider_9684          1 2.706565e-06
## 20198       personal_mail_provider_9685          1 2.706565e-06
## 20199       personal_mail_provider_9686          1 2.706565e-06
## 20200       personal_mail_provider_9687          1 2.706565e-06
## 20201       personal_mail_provider_9688          1 2.706565e-06
## 20202       personal_mail_provider_9689          1 2.706565e-06
## 20203       personal_mail_provider_9690          1 2.706565e-06
## 20204       personal_mail_provider_9691          1 2.706565e-06
## 20205       personal_mail_provider_9692          1 2.706565e-06
## 20206       personal_mail_provider_9693          1 2.706565e-06
## 20207       personal_mail_provider_9694          1 2.706565e-06
## 20208       personal_mail_provider_9695          1 2.706565e-06
## 20209       personal_mail_provider_9696          1 2.706565e-06
## 20210       personal_mail_provider_9697          1 2.706565e-06
## 20211       personal_mail_provider_9698          1 2.706565e-06
## 20212       personal_mail_provider_9699          1 2.706565e-06
## 20213       personal_mail_provider_9700          1 2.706565e-06
## 20214       personal_mail_provider_9701          1 2.706565e-06
## 20215       personal_mail_provider_9702          1 2.706565e-06
## 20216       personal_mail_provider_9703          1 2.706565e-06
## 20217       personal_mail_provider_9704          1 2.706565e-06
## 20218       personal_mail_provider_9705          1 2.706565e-06
## 20219       personal_mail_provider_9706          1 2.706565e-06
## 20220       personal_mail_provider_9707          1 2.706565e-06
## 20221       personal_mail_provider_9708          1 2.706565e-06
## 20222       personal_mail_provider_9709          1 2.706565e-06
## 20223       personal_mail_provider_9710          1 2.706565e-06
## 20224       personal_mail_provider_9711          1 2.706565e-06
## 20225       personal_mail_provider_9712          1 2.706565e-06
## 20226       personal_mail_provider_9713          1 2.706565e-06
## 20227       personal_mail_provider_9714          1 2.706565e-06
## 20228       personal_mail_provider_9715          1 2.706565e-06
## 20229       personal_mail_provider_9716          1 2.706565e-06
## 20230       personal_mail_provider_9717          1 2.706565e-06
## 20231       personal_mail_provider_9718          1 2.706565e-06
## 20232       personal_mail_provider_9719          1 2.706565e-06
```

```
## 20233   personal_mail_provider_9720        1 2.706565e-06
## 20234   personal_mail_provider_9721        1 2.706565e-06
## 20235   personal_mail_provider_9722        1 2.706565e-06
## 20236   personal_mail_provider_9723        1 2.706565e-06
## 20237   personal_mail_provider_9724        1 2.706565e-06
## 20238   personal_mail_provider_9725        1 2.706565e-06
## 20239   personal_mail_provider_9726        1 2.706565e-06
## 20240   personal_mail_provider_9727        1 2.706565e-06
## 20241   personal_mail_provider_9728        1 2.706565e-06
## 20242   personal_mail_provider_9729        1 2.706565e-06
## 20243   personal_mail_provider_9730        1 2.706565e-06
## 20244   personal_mail_provider_9731        1 2.706565e-06
## 20245   personal_mail_provider_9732        1 2.706565e-06
## 20246   personal_mail_provider_9733        1 2.706565e-06
## 20247   personal_mail_provider_9734        1 2.706565e-06
## 20248   personal_mail_provider_9735        1 2.706565e-06
## 20249   personal_mail_provider_9736        1 2.706565e-06
## 20250   personal_mail_provider_9737        1 2.706565e-06
## 20251   personal_mail_provider_9738        1 2.706565e-06
## 20252   personal_mail_provider_9739        1 2.706565e-06
## 20253   personal_mail_provider_9740        1 2.706565e-06
## 20254   personal_mail_provider_9741        1 2.706565e-06
## 20255   personal_mail_provider_9742        1 2.706565e-06
## 20256   personal_mail_provider_9743        1 2.706565e-06
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## 20267   personal_mail_provider_9754        1 2.706565e-06
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## 20269   personal_mail_provider_9756        1 2.706565e-06
## 20270   personal_mail_provider_9757        1 2.706565e-06
## 20271   personal_mail_provider_9758        1 2.706565e-06
## 20272   personal_mail_provider_9759        1 2.706565e-06
## 20273   personal_mail_provider_9760        1 2.706565e-06
## 20274   personal_mail_provider_9761        1 2.706565e-06
## 20275   personal_mail_provider_9762        1 2.706565e-06
## 20276   personal_mail_provider_9763        1 2.706565e-06
## 20277   personal_mail_provider_9764        1 2.706565e-06
## 20278   personal_mail_provider_9765        1 2.706565e-06
## 20279   personal_mail_provider_9766        1 2.706565e-06
## 20280   personal_mail_provider_9767        1 2.706565e-06
## 20281   personal_mail_provider_9768        1 2.706565e-06
## 20282   personal_mail_provider_9769        1 2.706565e-06
## 20283   personal_mail_provider_9770        1 2.706565e-06
## 20284   personal_mail_provider_9771        1 2.706565e-06
## 20285   personal_mail_provider_9772        1 2.706565e-06
## 20286   personal_mail_provider_9773        1 2.706565e-06
```

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## 20318    personal_mail_provider_9805    1 2.706565e-06
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## 20322    personal_mail_provider_9809    1 2.706565e-06
## 20323    personal_mail_provider_9810    1 2.706565e-06
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## 20328    personal_mail_provider_9815    1 2.706565e-06
## 20329    personal_mail_provider_9816    1 2.706565e-06
## 20330    personal_mail_provider_9817    1 2.706565e-06
## 20331    personal_mail_provider_9818    1 2.706565e-06
## 20332    personal_mail_provider_9819    1 2.706565e-06
## 20333    personal_mail_provider_9820    1 2.706565e-06
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## 20336    personal_mail_provider_9823    1 2.706565e-06
## 20337    personal_mail_provider_9824    1 2.706565e-06
## 20338    personal_mail_provider_9825    1 2.706565e-06
## 20339    personal_mail_provider_9826    1 2.706565e-06
## 20340    personal_mail_provider_9827    1 2.706565e-06
```

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## 20348    personal_mail_provider_9835         1 2.706565e-06
## 20349    personal_mail_provider_9836         1 2.706565e-06
## 20350    personal_mail_provider_9837         1 2.706565e-06
## 20351    personal_mail_provider_9838         1 2.706565e-06
## 20352    personal_mail_provider_9839         1 2.706565e-06
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## 20359    personal_mail_provider_9846         1 2.706565e-06
## 20360    personal_mail_provider_9847         1 2.706565e-06
## 20361    personal_mail_provider_9848         1 2.706565e-06
## 20362    personal_mail_provider_9849         1 2.706565e-06
## 20363    personal_mail_provider_9850         1 2.706565e-06
## 20364    personal_mail_provider_9851         1 2.706565e-06
## 20365    personal_mail_provider_9852         1 2.706565e-06
## 20366    personal_mail_provider_9853         1 2.706565e-06
## 20367    personal_mail_provider_9854         1 2.706565e-06
## 20368    personal_mail_provider_9855         1 2.706565e-06
## 20369    personal_mail_provider_9856         1 2.706565e-06
## 20370    personal_mail_provider_9857         1 2.706565e-06
## 20371    personal_mail_provider_9858         1 2.706565e-06
## 20372    personal_mail_provider_9859         1 2.706565e-06
## 20373    personal_mail_provider_9860         1 2.706565e-06
## 20374    personal_mail_provider_9861         1 2.706565e-06
## 20375    personal_mail_provider_9862         1 2.706565e-06
## 20376    personal_mail_provider_9863         1 2.706565e-06
## 20377    personal_mail_provider_9864         1 2.706565e-06
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## 20379    personal_mail_provider_9866         1 2.706565e-06
## 20380    personal_mail_provider_9867         1 2.706565e-06
## 20381    personal_mail_provider_9868         1 2.706565e-06
## 20382    personal_mail_provider_9869         1 2.706565e-06
## 20383    personal_mail_provider_9870         1 2.706565e-06
## 20384    personal_mail_provider_9871         1 2.706565e-06
## 20385    personal_mail_provider_9872         1 2.706565e-06
## 20386    personal_mail_provider_9873         1 2.706565e-06
## 20387    personal_mail_provider_9874         1 2.706565e-06
## 20388    personal_mail_provider_9875         1 2.706565e-06
## 20389    personal_mail_provider_9876         1 2.706565e-06
## 20390    personal_mail_provider_9877         1 2.706565e-06
## 20391    personal_mail_provider_9878         1 2.706565e-06
## 20392    personal_mail_provider_9879         1 2.706565e-06
## 20393    personal_mail_provider_9880         1 2.706565e-06
## 20394    personal_mail_provider_9881         1 2.706565e-06
```

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## 20397     personal_mail_provider_9884          1 2.706565e-06
## 20398     personal_mail_provider_9885          1 2.706565e-06
## 20399     personal_mail_provider_9886          1 2.706565e-06
## 20400     personal_mail_provider_9887          1 2.706565e-06
## 20401     personal_mail_provider_9888          1 2.706565e-06
## 20402     personal_mail_provider_9889          1 2.706565e-06
## 20403     personal_mail_provider_9890          1 2.706565e-06
## 20404     personal_mail_provider_9891          1 2.706565e-06
## 20405     personal_mail_provider_9892          1 2.706565e-06
## 20406     personal_mail_provider_9893          1 2.706565e-06
## 20407     personal_mail_provider_9894          1 2.706565e-06
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## 20409     personal_mail_provider_9896          1 2.706565e-06
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## 20412     personal_mail_provider_9899          1 2.706565e-06
## 20413     personal_mail_provider_9900          1 2.706565e-06
## 20414     personal_mail_provider_9901          1 2.706565e-06
## 20415     personal_mail_provider_9902          1 2.706565e-06
## 20416     personal_mail_provider_9903          1 2.706565e-06
## 20417     personal_mail_provider_9904          1 2.706565e-06
## 20418     personal_mail_provider_9905          1 2.706565e-06
## 20419     personal_mail_provider_9906          1 2.706565e-06
## 20420     personal_mail_provider_9907          1 2.706565e-06
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## 20423     personal_mail_provider_9910          1 2.706565e-06
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## 20426     personal_mail_provider_9913          1 2.706565e-06
## 20427     personal_mail_provider_9914          1 2.706565e-06
## 20428     personal_mail_provider_9915          1 2.706565e-06
## 20429     personal_mail_provider_9916          1 2.706565e-06
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## 20431     personal_mail_provider_9918          1 2.706565e-06
## 20432     personal_mail_provider_9919          1 2.706565e-06
## 20433     personal_mail_provider_9920          1 2.706565e-06
## 20434     personal_mail_provider_9921          1 2.706565e-06
## 20435     personal_mail_provider_9922          1 2.706565e-06
## 20436     personal_mail_provider_9923          1 2.706565e-06
## 20437     personal_mail_provider_9924          1 2.706565e-06
## 20438     personal_mail_provider_9925          1 2.706565e-06
## 20439     personal_mail_provider_9926          1 2.706565e-06
## 20440     personal_mail_provider_9927          1 2.706565e-06
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## 20442     personal_mail_provider_9929          1 2.706565e-06
## 20443     personal_mail_provider_9930          1 2.706565e-06
## 20444     personal_mail_provider_9931          1 2.706565e-06
## 20445     personal_mail_provider_9932          1 2.706565e-06
## 20446     personal_mail_provider_9933          1 2.706565e-06
## 20447     personal_mail_provider_9934          1 2.706565e-06
## 20448     personal_mail_provider_9935          1 2.706565e-06
```

```
## 20449    personal_mail_provider_9936        1 2.706565e-06
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## 20453    personal_mail_provider_9940        1 2.706565e-06
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## 20457    personal_mail_provider_9944        1 2.706565e-06
## 20458    personal_mail_provider_9945        1 2.706565e-06
## 20459    personal_mail_provider_9946        1 2.706565e-06
## 20460    personal_mail_provider_9947        1 2.706565e-06
## 20461    personal_mail_provider_9948        1 2.706565e-06
## 20462    personal_mail_provider_9949        1 2.706565e-06
## 20463    personal_mail_provider_9950        1 2.706565e-06
## 20464    personal_mail_provider_9951        1 2.706565e-06
## 20465    personal_mail_provider_9952        1 2.706565e-06
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## 20467    personal_mail_provider_9954        1 2.706565e-06
## 20468    personal_mail_provider_9955        1 2.706565e-06
## 20469    personal_mail_provider_9956        1 2.706565e-06
## 20470    personal_mail_provider_9957        1 2.706565e-06
## 20471    personal_mail_provider_9958        1 2.706565e-06
## 20472    personal_mail_provider_9959        1 2.706565e-06
## 20473    personal_mail_provider_9960        1 2.706565e-06
## 20474    personal_mail_provider_9961        1 2.706565e-06
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## 20478    personal_mail_provider_9965        1 2.706565e-06
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## 20482    personal_mail_provider_9969        1 2.706565e-06
## 20483    personal_mail_provider_9970        1 2.706565e-06
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## 20485    personal_mail_provider_9972        1 2.706565e-06
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## 20488    personal_mail_provider_9975        1 2.706565e-06
## 20489    personal_mail_provider_9976        1 2.706565e-06
## 20490    personal_mail_provider_9977        1 2.706565e-06
## 20491    personal_mail_provider_9978        1 2.706565e-06
## 20492    personal_mail_provider_9979        1 2.706565e-06
## 20493    personal_mail_provider_9980        1 2.706565e-06
## 20494    personal_mail_provider_9981        1 2.706565e-06
## 20495    personal_mail_provider_9982        1 2.706565e-06
## 20496    personal_mail_provider_9983        1 2.706565e-06
## 20497    personal_mail_provider_9984        1 2.706565e-06
## 20498    personal_mail_provider_9985        1 2.706565e-06
## 20499    personal_mail_provider_9986        1 2.706565e-06
## 20500    personal_mail_provider_9987        1 2.706565e-06
## 20501    personal_mail_provider_9988        1 2.706565e-06
## 20502    personal_mail_provider_9989        1 2.706565e-06
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## 20504    personal_mail_provider_9991      1 2.706565e-06
## 20505    personal_mail_provider_9992      1 2.706565e-06
## 20506    personal_mail_provider_9993      1 2.706565e-06
## 20507    personal_mail_provider_9994      1 2.706565e-06
## 20508    personal_mail_provider_9995      1 2.706565e-06
## 20509    personal_mail_provider_9996      1 2.706565e-06
## 20510    personal_mail_provider_9997      1 2.706565e-06
## 20511    personal_mail_provider_9998      1 2.706565e-06
## 20512    personal_mail_provider_9999      1 2.706565e-06
```

```r
tot_emailproviders <- n_distinct(df_2_dist_emailprovider$EMAIL_PROVIDER)


tot_emailproviders
```

```
## [1] 20512
```

```r
#!!! NOTE: too many different values for EMAIL_PROVIDER to be an useful category !!!#

#### TO DO df_2 ####
# COMPUTE THE DISTRIBUTION for the remaining df_2_cli_fid_clean variables

#### RESHAPING df_2 ####

## keep the most frequent EMAIL_PROVIDER values and add a common factor level "OTHER" for the remaining
df_2_dist_emailprovider %>%
  arrange(desc(PERCENT)) %>%
  mutate(PERCENT_COVERED = cumsum(TOT_CLIs)/sum(TOT_CLIs)) %>%
  as.data.frame() %>%
  head(20)
```

```
##      EMAIL_PROVIDER TOT_CLIs      PERCENT PERCENT_COVERED
## 1        gmail.com   151508 0.410066257       0.4100663
## 2        libero.it    57782 0.156390741       0.5664570
## 3       hotmail.it    28698 0.077673004       0.6441300
## 4         alice.it    18127 0.049061905       0.6931919
## 5         yahoo.it    16538 0.044761173       0.7379531
## 6       hotmail.com    10076 0.027271349       0.7652244
## 7       virgilio.it     9161 0.024794842       0.7900193
## 8        tiscali.it     8733 0.023636433       0.8136557
## 9          live.it     7936 0.021479300       0.8351350
## 10       (missing)     5889 0.015938962       0.8510740
## 11       icloud.com     3735 0.010109020       0.8611830
## 12        yahoo.com     3259 0.008820695       0.8700037
## 13         gmail.it     2266 0.006133076       0.8761368
## 14           tin.it     2183 0.005908431       0.8820452
## 15       outlook.it     2039 0.005518686       0.8875639
## 16    fastwebnet.it     1749 0.004733782       0.8922977
## 17        inwind.it     1514 0.004097739       0.8963954
## 18         email.it     1103 0.002985341       0.8993807
## 19           me.com     1034 0.002798588       0.9021793
## 20         live.com      837 0.002265395       0.9044447
```

```r
## always keep the (missing) level for technical reasons
## select levels that cover the 85% of the cases, the remaining 15%
clean_email_providers <- df_2_dist_emailprovider %>%
  arrange(desc(PERCENT)) %>%
  mutate(PERCENT_COVERED = cumsum(TOT_CLIs)/sum(TOT_CLIs)) %>%
  mutate(EMAIL_PROVIDER = as.character(EMAIL_PROVIDER)) %>%
  mutate(AUX = if_else(PERCENT_COVERED < 0.85 | (PERCENT_COVERED > 0.85 & lag(PERCENT_COVERED) < 0.85),
  mutate(EMAIL_PROVIDER_CLEAN = if_else(AUX | EMAIL_PROVIDER == "(missing)", EMAIL_PROVIDER, "others"))

head(clean_email_providers, 20)
```

```
##      EMAIL_PROVIDER TOT_CLIs      PERCENT PERCENT_COVERED AUX EMAIL_PROVIDER_CLEAN
## 1        gmail.com   151508 0.410066257       0.4100663   1            gmail.com
## 2        libero.it    57782 0.156390741       0.5664570   1            libero.it
## 3       hotmail.it    28698 0.077673004       0.6441300   1           hotmail.it
## 4         alice.it    18127 0.049061905       0.6931919   1             alice.it
## 5        yahoo.it    16538 0.044761173       0.7379531   1             yahoo.it
## 6      hotmail.com    10076 0.027271349       0.7652244   1          hotmail.com
## 7      virgilio.it     9161 0.024794842       0.7900193   1          virgilio.it
## 8       tiscali.it     8733 0.023636433       0.8136557   1           tiscali.it
## 9          live.it     7936 0.021479300       0.8351350   1              live.it
## 10       (missing)     5889 0.015938962       0.8510740   1            (missing)
## 11      icloud.com     3735 0.010109020       0.8611830   0               others
## 12       yahoo.com     3259 0.008820695       0.8700037   0               others
## 13         gmail.it     2266 0.006133076       0.8761368   0               others
## 14          tin.it     2183 0.005908431       0.8820452   0               others
## 15      outlook.it     2039 0.005518686       0.8875639   0               others
## 16    fastwebnet.it     1749 0.004733782       0.8922977   0               others
## 17        inwind.it     1514 0.004097739       0.8963954   0               others
## 18        email.it     1103 0.002985341       0.8993807   0               others
## 19          me.com     1034 0.002798588       0.9021793   0               others
## 20        live.com      837 0.002265395       0.9044447   0               others
```

```r
## add clean EMAIL_PROVIDER ##
df_2_cli_account_clean <- df_2_cli_account_clean %>%
  mutate(EMAIL_PROVIDER = as.character(EMAIL_PROVIDER)) %>%
  left_join(clean_email_providers %>%
              select(EMAIL_PROVIDER, EMAIL_PROVIDER_CLEAN)
            , by = "EMAIL_PROVIDER") %>%
  select(-EMAIL_PROVIDER) %>%
  mutate(EMAIL_PROVIDER_CLEAN = as.factor(EMAIL_PROVIDER_CLEAN))


#### EXPLORE NEW COLUMNS EMAIL_PROVIDER_CLEAN in df_2 ####

## compute distribution
df2_dist_emailproviderclean <- df_2_cli_account_clean %>%
  group_by(EMAIL_PROVIDER_CLEAN) %>%
  summarise(TOT_CLIs = n_distinct(ID_CLI)) %>%
  mutate(PERCENT = TOT_CLIs/sum(TOT_CLIs)) %>%
  arrange(desc(PERCENT))

df2_dist_emailproviderclean
```

```
## # A tibble: 11 x 3
##    EMAIL_PROVIDER_CLEAN TOT_CLIs PERCENT
##    <fct>                   <int>   <dbl>
##  1 gmail.com              151508  0.410
##  2 libero.it               57782  0.156
##  3 others                  55024  0.149
##  4 hotmail.it              28698  0.0777
##  5 alice.it                18127  0.0491
##  6 yahoo.it                16538  0.0448
##  7 hotmail.com             10076  0.0273
##  8 virgilio.it              9161  0.0248
##  9 tiscali.it               8733  0.0236
## 10 live.it                  7936  0.0215
## 11 (missing)                5889  0.0159
```

```r
## plot distribution
plot_df2_dist_emailproviderclean <- (
  ggplot(data=df2_dist_emailproviderclean
         , aes(x=EMAIL_PROVIDER_CLEAN, y=TOT_CLIs)) +
    geom_bar(stat="identity"
             , fill="steelblue") +
    theme_minimal()
)

plot_df2_dist_emailproviderclean
```
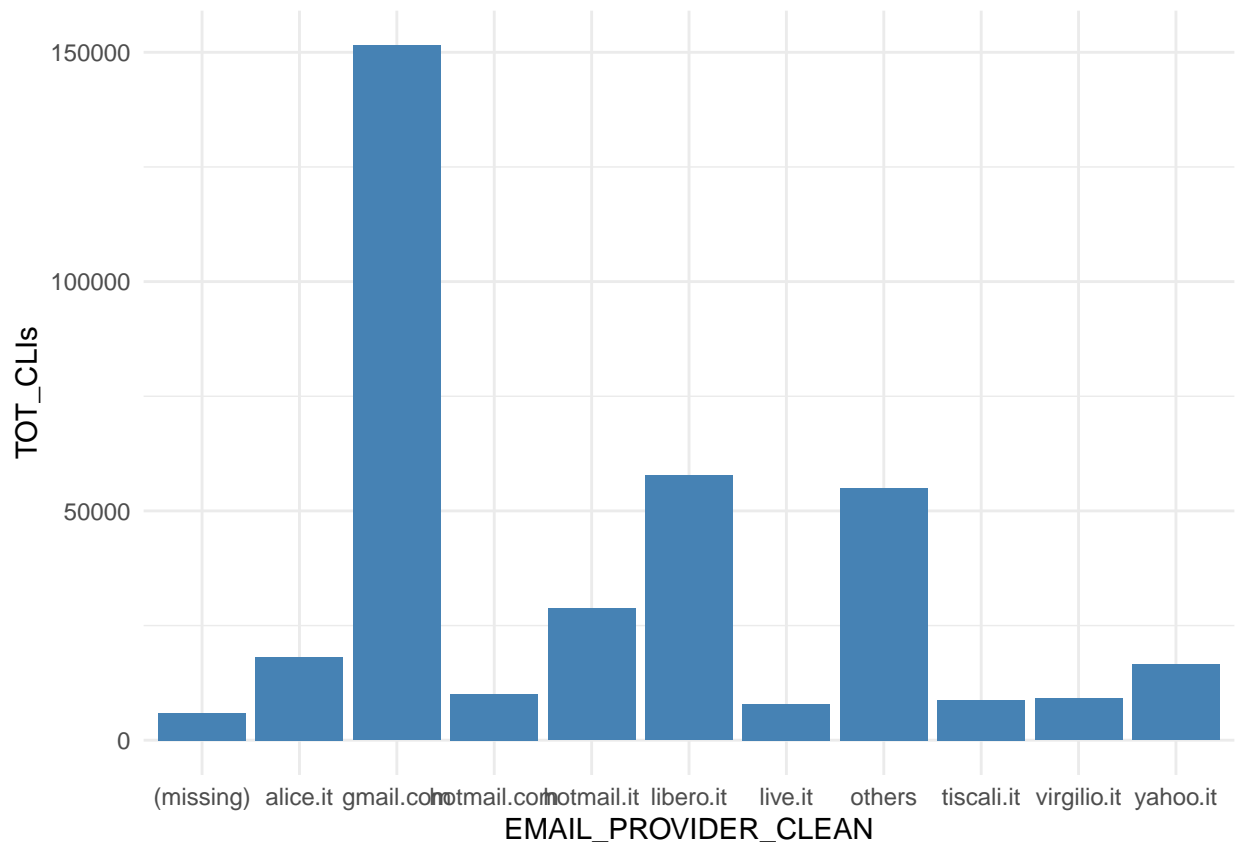
```r
#### TO DO df_2 ####
# EXPLORE the remaining df_2_cli_account_clean relevant variables

### W_PHONE variable

df2_dist_wphone <- df_2_cli_account_clean %>%
  group_by(W_PHONE) %>%
  summarise(TOT_CLIs = n_distinct(ID_CLI)) %>%
  mutate(PERCENT = TOT_CLIs/sum(TOT_CLIs)) %>%
  arrange(desc(PERCENT))

df2_dist_wphone
```

```
## # A tibble: 2 x 3
##   W_PHONE TOT_CLIs PERCENT
##   <fct>      <int>   <dbl>
## 1 1         342167  0.926
## 2 0          27305  0.0739
```

```r
## plot distribution
plot_df2_dist_wphone <- (
  ggplot(data=df2_dist_wphone
         , aes(x=W_PHONE, y=TOT_CLIs)) +
    geom_bar(stat="identity"
             , fill="steelblue") +
    theme_minimal()
)

plot_df2_dist_wphone
```
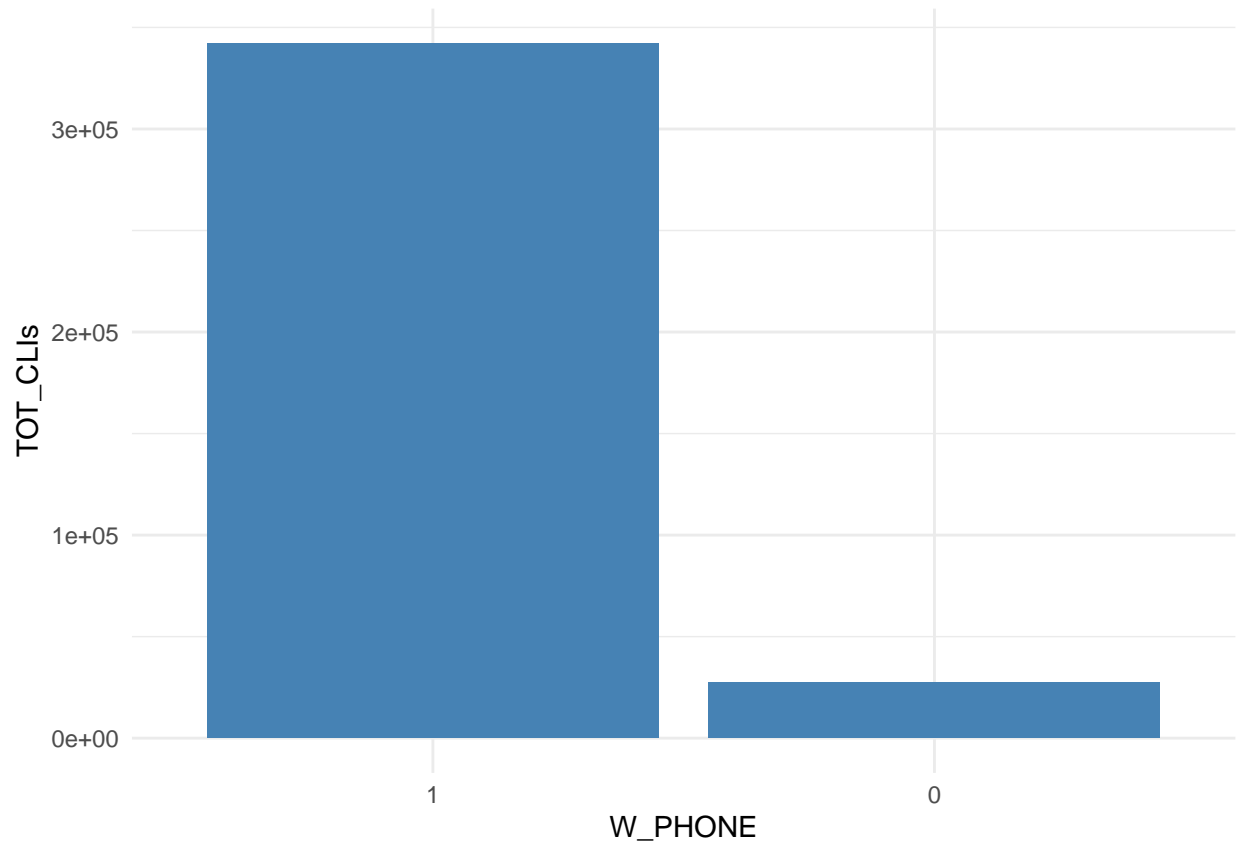
```
### ID_ADDRESS variable forse NO SENSE

df2_dist_IDaddress <- df_2_cli_account_clean %>%
  group_by(ID_ADDRESS) %>%
  summarise(TOT_CLIs = n_distinct(ID_CLI)) %>%
  mutate(PERCENT = TOT_CLIs/sum(TOT_CLIs)) %>%
  arrange(desc(PERCENT))

df2_dist_IDaddress
```

```
## # A tibble: 361,385 x 3
##    ID_ADDRESS TOT_CLIs   PERCENT
##         <int>    <int>     <dbl>
## 1     900091     6974 0.0189
## 2      13539        3 0.00000812
## 3     745497        3 0.00000812
## 4        332        2 0.00000541
## 5       3342        2 0.00000541
## 6       3460        2 0.00000541
## 7       3921        2 0.00000541
## 8       4503        2 0.00000541
## 9       4523        2 0.00000541
## 10      4620        2 0.00000541
## # ... with 361,375 more rows
```

```
## plot distribution
plot_df2_dist_IDaddress <- (
  ggplot(data=df2_dist_IDaddress
         , aes(x=ID_ADDRESS, y=TOT_CLIs)) +
    geom_bar(stat="identity"
             , fill="steelblue") +
    theme_minimal()
)

plot_df2_dist_IDaddress
```
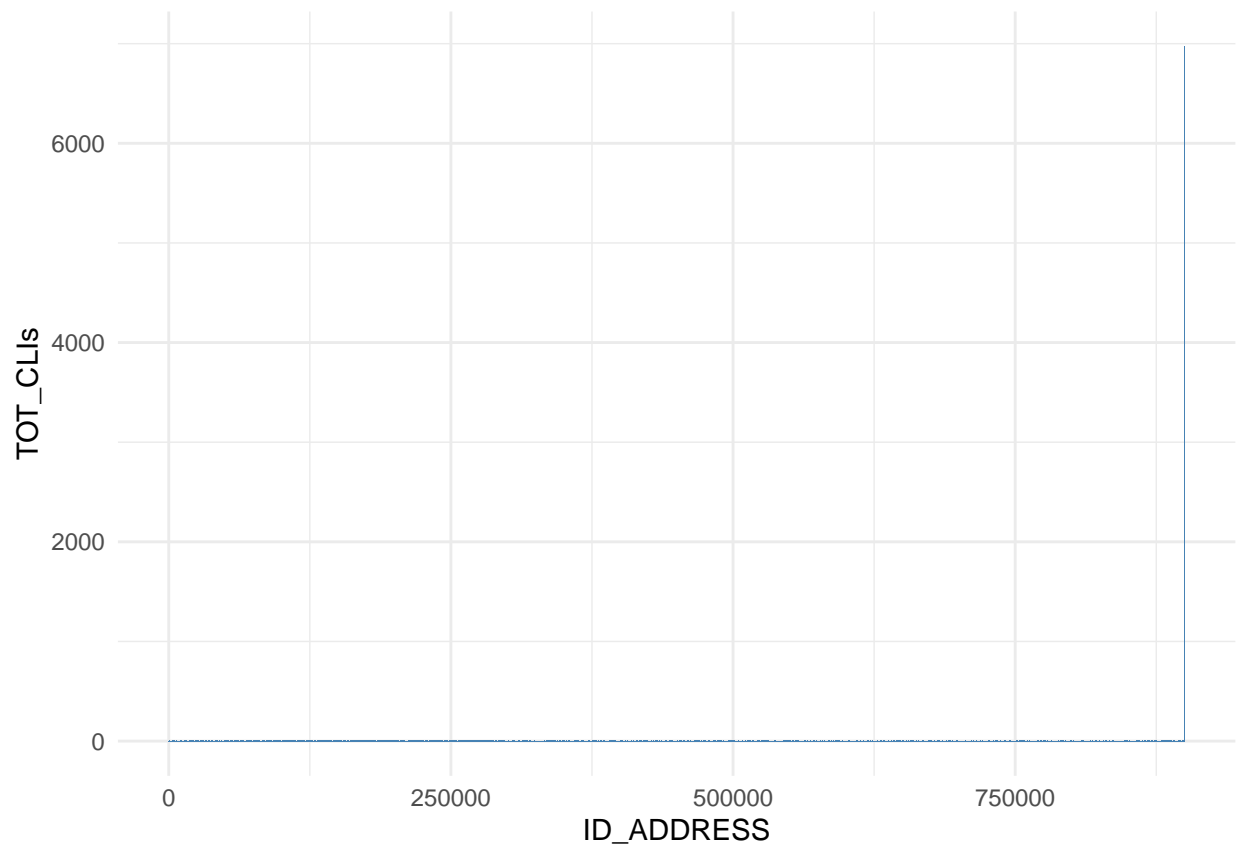


```
### TYP_CLI_ACCOUNT variable

df2_dist_TYP_CLI_ACCOUNT <- df_2_cli_account_clean %>%
  group_by(TYP_CLI_ACCOUNT) %>%
  summarise(TOT_CLIs = n_distinct(ID_CLI)) %>%
  mutate(PERCENT = TOT_CLIs/sum(TOT_CLIs)) %>%
  arrange(desc(PERCENT))

df2_dist_TYP_CLI_ACCOUNT
```

```
## # A tibble: 2 x 3
##   TYP_CLI_ACCOUNT TOT_CLIs PERCENT
##   <fct>              <int>   <dbl>
## 1 4                 333656   0.903
```

```
## 2 2                      35816  0.0969
```

```
## plot distribution
plot_df2_dist_TYP_CLI_ACCOUNT <- (
  ggplot(data=df2_dist_TYP_CLI_ACCOUNT
         , aes(x=TYP_CLI_ACCOUNT, y=TOT_CLIs)) +
    geom_bar(stat="identity"
             , fill="steelblue") +
    theme_minimal()
)

plot_df2_dist_TYP_CLI_ACCOUNT
```
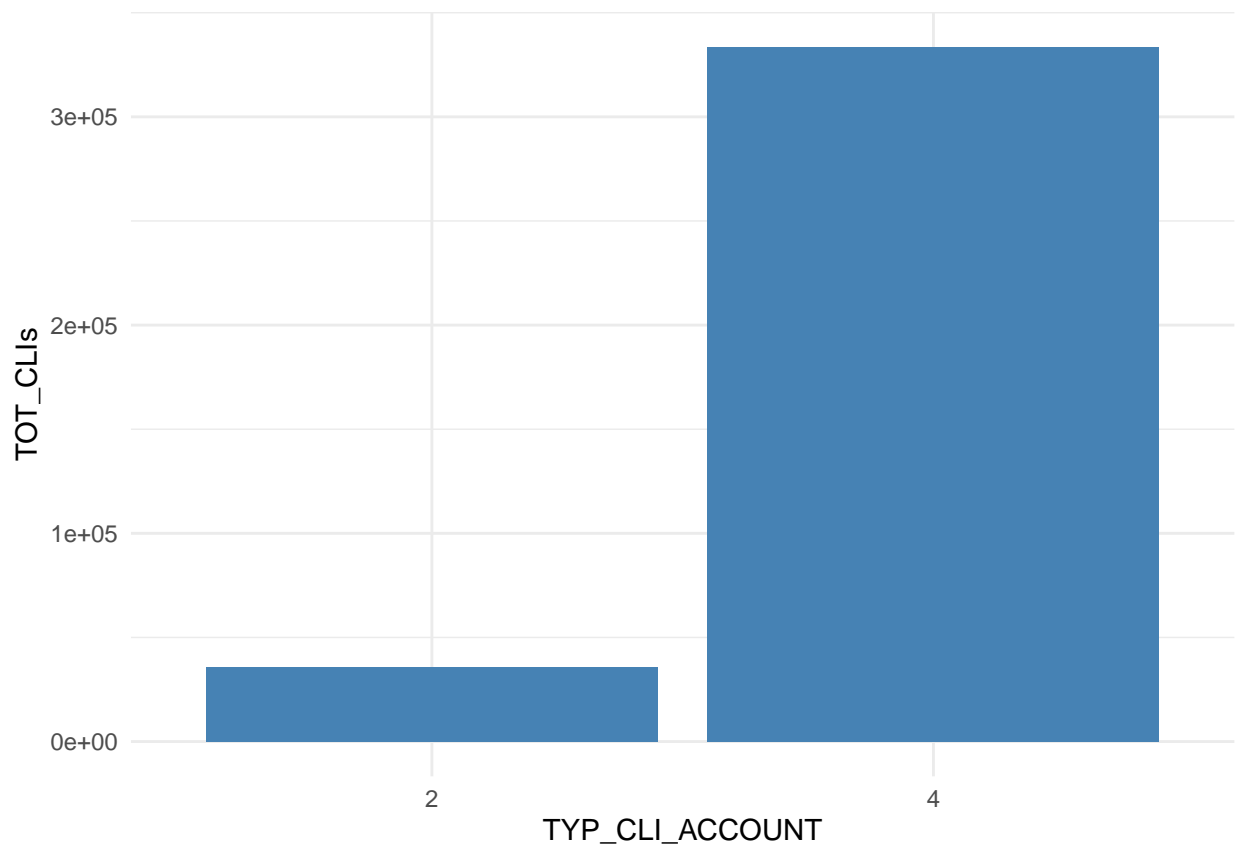

TYP_JOB variable

```
df2_dist_TYP_JOB <- df_2_cli_account_clean %>%
  group_by(TYP_JOB) %>%
  summarise(TOT_CLIs = n_distinct(ID_CLI)) %>%
  mutate(PERCENT = TOT_CLIs/sum(TOT_CLIs)) %>%
  arrange(desc(PERCENT))

df2_dist_TYP_JOB
```

```
## # A tibble: 15 x 3
##    TYP_JOB                      TOT_CLIs   PERCENT
```

```
##      <fct>                                <int>      <dbl>
##  1 (missing)                             360810 0.977
##  2 Libero professionista                   3970 0.0107
##  3 Impiegato/a                             1560 0.00422
##  4 Altro                                    784 0.00212
##  5 Pensionato/a                             641 0.00173
##  6 Operaio/a                                482 0.00130
##  7 Dirigente/Quadro/Funzionario             354 0.000958
##  8 Non Dichiara                             218 0.000590
##  9 Casalinga                                191 0.000517
## 10 Artigiano                                131 0.000355
## 11 Imprenditore                             108 0.000292
## 12 In cerca di occupazione                   79 0.000214
## 13 Commerciante/Esercente                    71 0.000192
## 14 Studente                                  54 0.000146
## 15 Rappresentante/Agente Commerciale         19 0.0000514
```

```r
## plot distribution
plot_df2_dist_TYP_JOB <- (
  ggplot(data=df2_dist_TYP_JOB
         , aes(x=TYP_JOB, y=TOT_CLIs)) +
    geom_bar(stat="identity"
             , fill="steelblue") +
    theme_minimal()
)

plot_df2_dist_TYP_JOB
```
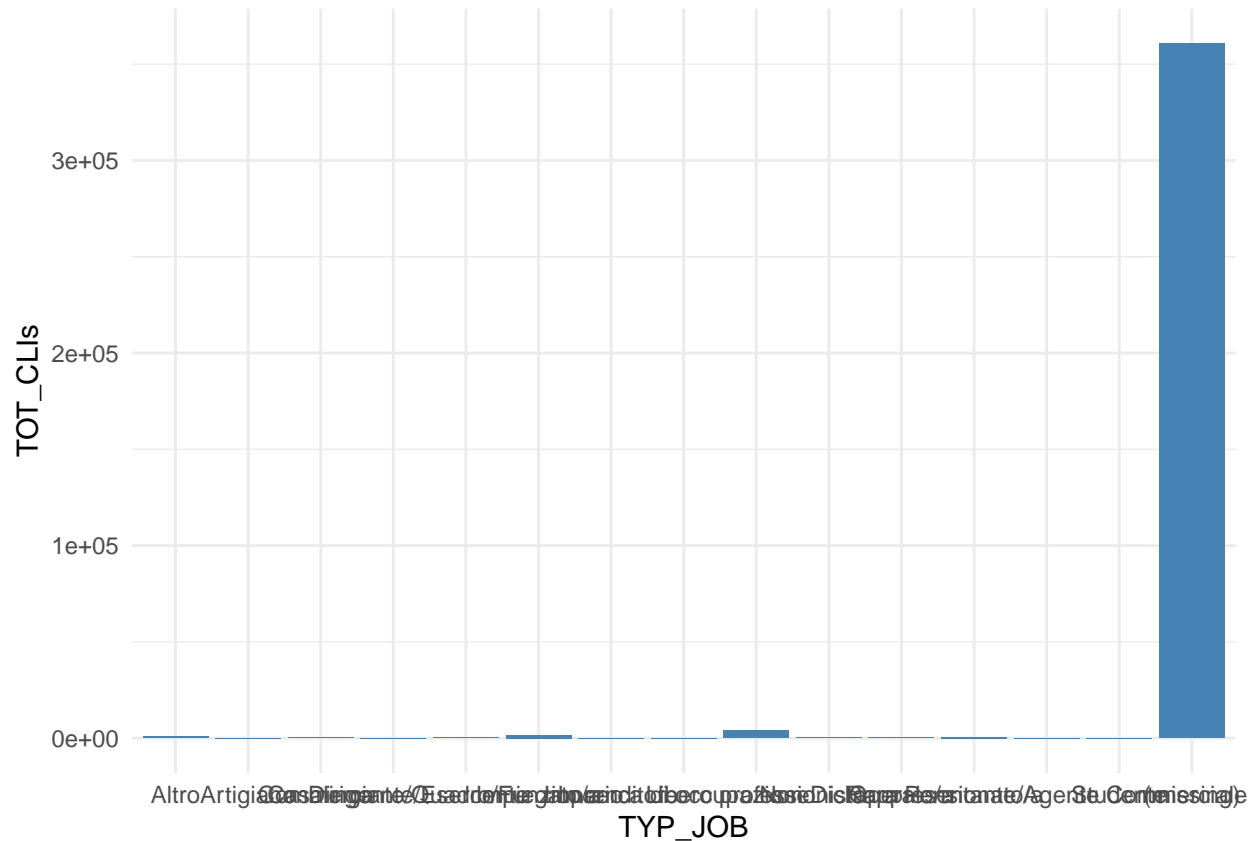
FINAL REVIEW df_2_clean

```
str(df_2_cli_account_clean)
```

```
## 'data.frame':    369472 obs. of  6 variables:
##  $ ID_CLI             : int  600125 729642 304639 292497 589492 638815 658338 883322 508481 871293
##  $ W_PHONE            : Factor w/ 2 levels "1","0": 2 2 1 1 2 1 1 1 1 1 ...
##  $ ID_ADDRESS         : int  584621 714144 284176 272563 573304 622947 642716 856157 488177 847360
##  $ TYP_CLI_ACCOUNT    : Factor w/ 2 levels "2","4": 2 2 2 2 1 1 2 2 2 2 ...
##  $ TYP_JOB            : Factor w/ 15 levels "Altro","Artigiano",..: 15 15 15 15 15 15 15 15 15 15 .
##  $ EMAIL_PROVIDER_CLEAN: Factor w/ 11 levels "(missing)","alice.it",..: 6 3 11 6 3 8 6 6 6 5 ...
```

```
summary(df_2_cli_account_clean)
```

```
##       ID_CLI         W_PHONE       ID_ADDRESS      TYP_CLI_ACCOUNT
##  Min.   :     1   1:342167   Min.   :     1   2: 35816
##  1st Qu.:230783   0: 27305   1st Qu.:227903   4:333656
##  Median :462063              Median :456720
##  Mean   :462541              Mean   :457283
##  3rd Qu.:693197              3rd Qu.:686533
##  Max.   :934919              Max.   :900091
##
##                  TYP_JOB        EMAIL_PROVIDER_CLEAN
##  (missing)          :360810   gmail.com :151508
##  Libero professionista: 3970   libero.it : 57782
```

```
##  Impiegato/a         :  1560    others     : 55024
##  Altro               :   784    hotmail.it: 28698
##  Pensionato/a        :   641    alice.it  : 18127
##  Operaio/a           :   482    yahoo.it  : 16538
##  (Other)             :  1225    (Other)   : 41795
```

```
#_____
```

```
#### FIRST LOOK of df_3 ####
```

```
str(df_3_cli_address)
```

```
## 'data.frame':    1211332 obs. of  4 variables:
##  $ ID_ADDRESS: int  1337 1344 1347 1347 1347 1347 1347 1347 1347 1347 ...
##  $ CAP       : chr  "20083" "20024" "20090" "20090" ...
##  $ PRV       : chr  "MI" "MI" "MI" "MI" ...
##  $ REGION    : chr  "LOMBARDIA" "LOMBARDIA" "LOMBARDIA" "LOMBARDIA" ...
```

```
summary(df_3_cli_address)
```

```
##    ID_ADDRESS          CAP                PRV               REGION
##  Min.   :     1   Length:1211332     Length:1211332     Length:1211332
##  1st Qu.:221063   Class :character   Class :character   Class :character
##  Median :437083   Mode  :character   Mode  :character   Mode  :character
##  Mean   :443391
##  3rd Qu.:664931
##  Max.   :900090
```

```
#### START CLEANING df_3 ####
```

```
df_3_cli_address_clean <- df_3_cli_address
```

```
#### CLEANING DUPLICATE VALUES in df_3 ####
```

```
## check for duplicates
df_3_cli_address_clean %>%
  summarise(TOT_ID_ADDRESSes = n_distinct(ID_ADDRESS)
            , TOT_ROWs = n())
```

```
##   TOT_ID_ADDRESSes TOT_ROWs
## 1           361330  1211332
```

```
#!!! NOTE:  there are duplicates !!!#
```

```
df_3_cli_address_clean <- df_3_cli_address_clean %>%
  distinct()
```

```
#### CLEANING DATA TYPES in df_3 ####
```

```
## format string as factors ##
df_3_cli_address_clean <- df_3_cli_address_clean %>%
  mutate(CAP = as.character(CAP))
```

```
#### CLEANING MISSING VALUES in df_3 ####

df_3_cli_address_clean %>%
  group_by(w_CAP = !is.na(CAP)
           , w_PRV = !is.na(PRV)
           , w_REGION = !is.na(REGION)) %>%
  summarise(TOT_ADDs = n_distinct(ID_ADDRESS))
```

```
## # A tibble: 4 x 4
## # Groups:   w_CAP, w_PRV [3]
##    w_CAP w_PRV w_REGION TOT_ADDs
##    <lgl> <lgl> <lgl>       <int>
## 1 FALSE FALSE FALSE         121
## 2 TRUE  FALSE FALSE       23148
## 3 TRUE  TRUE  FALSE         595
## 4 TRUE  TRUE  TRUE       337466
```

```
## let examine in details some of these missing cases
df_3_cli_address_clean %>% filter(is.na(PRV) & !is.na(REGION))
```

```
## [1] ID_ADDRESS CAP        PRV        REGION
## <0 rows> (or 0-length row.names)
```

```
## MISSING VALUES rows are removed ##
df_3_cli_address_clean <- df_3_cli_address_clean %>%
  filter(!is.na(CAP) & !is.na(PRV) & !is.na(REGION))

#### CONSISTENCY CHECK ID_ADDRESS in df_2/df_3 ####

cons_idaddress_df2_df3 <- df_2_cli_account_clean %>%
  select(ID_ADDRESS) %>%
  mutate(is_in_df_2 = 1) %>%
  distinct() %>%
  full_join(df_3_cli_address_clean %>%
              select(ID_ADDRESS) %>%
              mutate(is_in_df_3 = 1) %>%
              distinct()
            , by = "ID_ADDRESS"
  ) %>%
  group_by(is_in_df_2, is_in_df_3) %>%
  summarise(NUM_ID_ADDRESSes = n_distinct(ID_ADDRESS)) %>%
  as.data.frame()

cons_idaddress_df2_df3
```

```
##   is_in_df_2 is_in_df_3 NUM_ID_ADDRESSes
## 1          1          1           337466
## 2          1         NA            23919
```

```
#!!! NOTE:   there are ID_ADDRESSes actually not mapped in df_3 !!!#
#!!!         this issue should be taken into account in joining these two tables !!!#

#### EXPLORE COLUMNS of df_3 ####

#### TO DO df_3 ####
# EXPLORE the df_3_cli_address_clean relevant variables

# COMPUTE THE DISTRIBUTION OF REGION

## compute distribution
df_3_cli_address_clean_region_distrib <- df_3_cli_address_clean %>%
  group_by(REGION) %>%
  summarise(TOT_IDs = n_distinct(ID_ADDRESS)) %>%
  mutate(PERCENT = TOT_IDs/sum(TOT_IDs)) %>%
  arrange(desc(PERCENT))

df_3_cli_address_clean_region_distrib
```

```
## # A tibble: 20 x 3
##    REGION                 TOT_IDs  PERCENT
##    <chr>                    <int>    <dbl>
##  1 LOMBARDIA                97181 0.288
##  2 LAZIO                    32058 0.0950
##  3 CAMPANIA                 30570 0.0906
##  4 VENETO                   29696 0.0880
##  5 SICILIA                  28329 0.0839
##  6 PIEMONTE                 24377 0.0722
##  7 EMILIA ROMAGNA           22515 0.0667
##  8 PUGLIA                   21582 0.0640
##  9 TOSCANA                  15369 0.0455
## 10 LIGURIA                   9994 0.0296
## 11 ABRUZZO                   6856 0.0203
## 12 FRIULI VENEZIA GIULIA     5969 0.0177
## 13 UMBRIA                    4771 0.0141
## 14 MARCHE                    1931 0.00572
## 15 CALABRIA                  1837 0.00544
## 16 BASILICATA                1382 0.00410
## 17 SARDEGNA                  1124 0.00333
## 18 TRENTINO ALTO ADIGE        982 0.00291
## 19 MOLISE                     668 0.00198
## 20 VALLE D'AOSTA              277 0.000821
```

```
## plot distribution
plot_df_3_cli_address_clean_region_distrib <- (
  ggplot(data=df_3_cli_address_clean_region_distrib
         , aes(x=REGION, y=PERCENT)) +
    geom_bar(stat="identity"
             , fill="steelblue") +
    theme_minimal()
)

plot_df_3_cli_address_clean_region_distrib
```
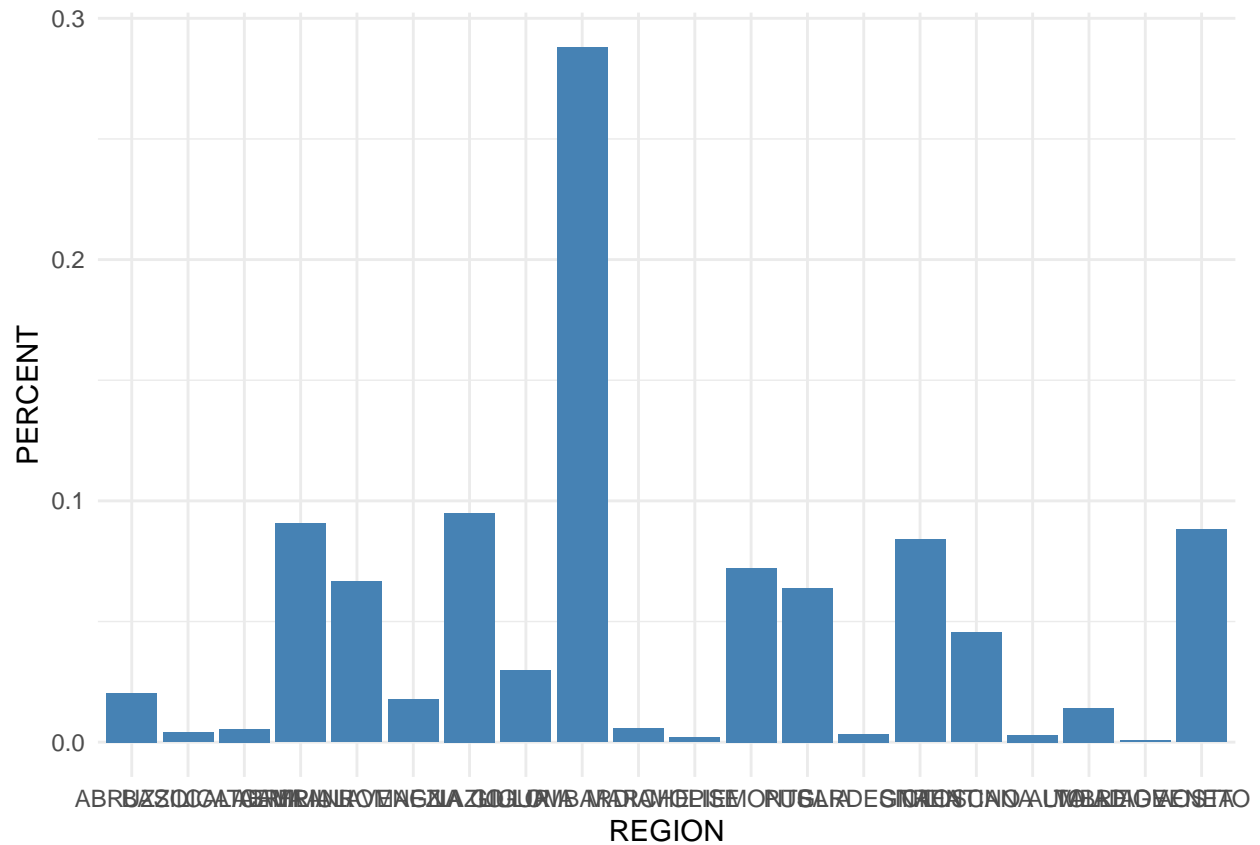
```r
# COMPUTE THE DISTRIBUTION OF PRV

## compute distribution
df_3_cli_address_clean_prv_distrib <- df_3_cli_address_clean %>%
  group_by(PRV) %>%
  summarise(TOT_IDs = n_distinct(ID_ADDRESS)) %>%
  mutate(PERCENT = TOT_IDs/sum(TOT_IDs)) %>%
  arrange(desc(PERCENT))

df_3_cli_address_clean_prv_distrib
```

```
## # A tibble: 110 x 3
##     PRV   TOT_IDs PERCENT
##     <chr>   <int>   <dbl>
##  1 MI      38850  0.115
##  2 RM      29529  0.0875
##  3 NA      22374  0.0663
##  4 TO      18322  0.0543
##  5 PA      17448  0.0517
##  6 MB      14751  0.0437
##  7 BG      13659  0.0405
##  8 BA      10698  0.0317
##  9 BO       9634  0.0285
## 10 GE       8234  0.0244
## # ... with 100 more rows
```

```
## plot distribution
plot_df_3_cli_address_clean_prv_distrib <- (
  ggplot(data=df_3_cli_address_clean_prv_distrib
         , aes(x=PRV, y=PERCENT)) +
    geom_bar(stat="identity"
             , fill="steelblue") +
    theme_minimal()
)

plot_df_3_cli_address_clean_prv_distrib
```
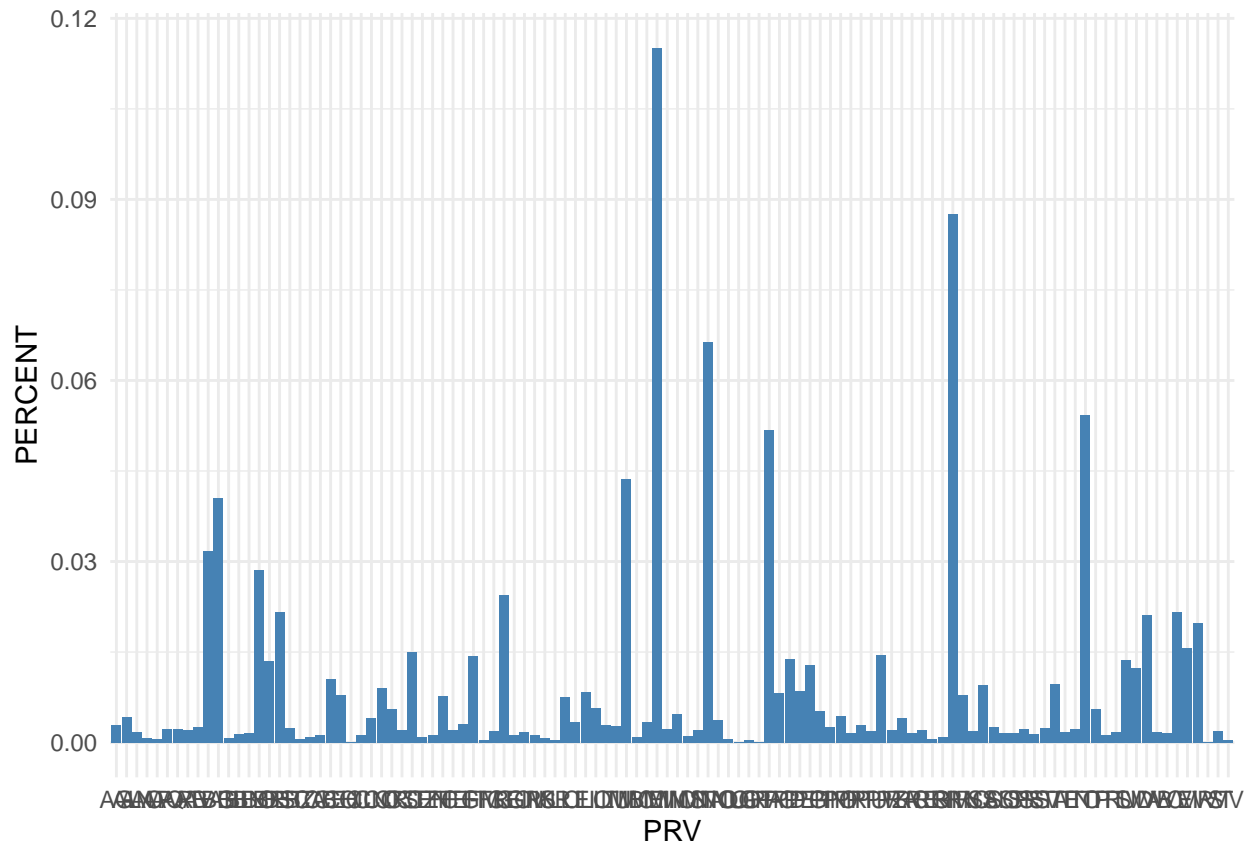


```
# COMPUTE THE DISTRIBUTION OF CAPs - NOT MEANINGFUL AS IT CALCULATES THE PERCENTAGE OF PEOPLE LIVING IN

## compute distribution
df_3_cli_address_clean_cap_distrib <- df_3_cli_address_clean %>%
  group_by(CAP) %>%
  summarise(TOT_IDs = n_distinct(ID_ADDRESS)) %>%
  mutate(PERCENT = TOT_IDs/sum(TOT_IDs)) %>%
  arrange(desc(PERCENT))

df_3_cli_address_clean_cap_distrib
```

```
## # A tibble: 4,784 x 3
##    CAP    TOT_IDs PERCENT
##    <chr>    <int>   <dbl>
```

```
##  1 20090     3146 0.00932
##  2 20900     2499 0.00741
##  3 20060     2030 0.00602
##  4 24040     1703 0.00505
##  5 70010     1453 0.00431
##  6 24030     1403 0.00416
##  7 72100     1367 0.00405
##  8 80014     1352 0.00401
##  9 90100     1323 0.00392
## 10 36100     1292 0.00383
## # ... with 4,774 more rows
```

```r
## plot distribution
plot_df_3_cli_address_clean_cap_distrib <- (
  ggplot(data=df_3_cli_address_clean_cap_distrib
         , aes(x=CAP, y=PERCENT)) +
    geom_bar(stat="identity"
             , fill="steelblue") +
    theme_minimal()
)

plot_df_3_cli_address_clean_cap_distrib
```
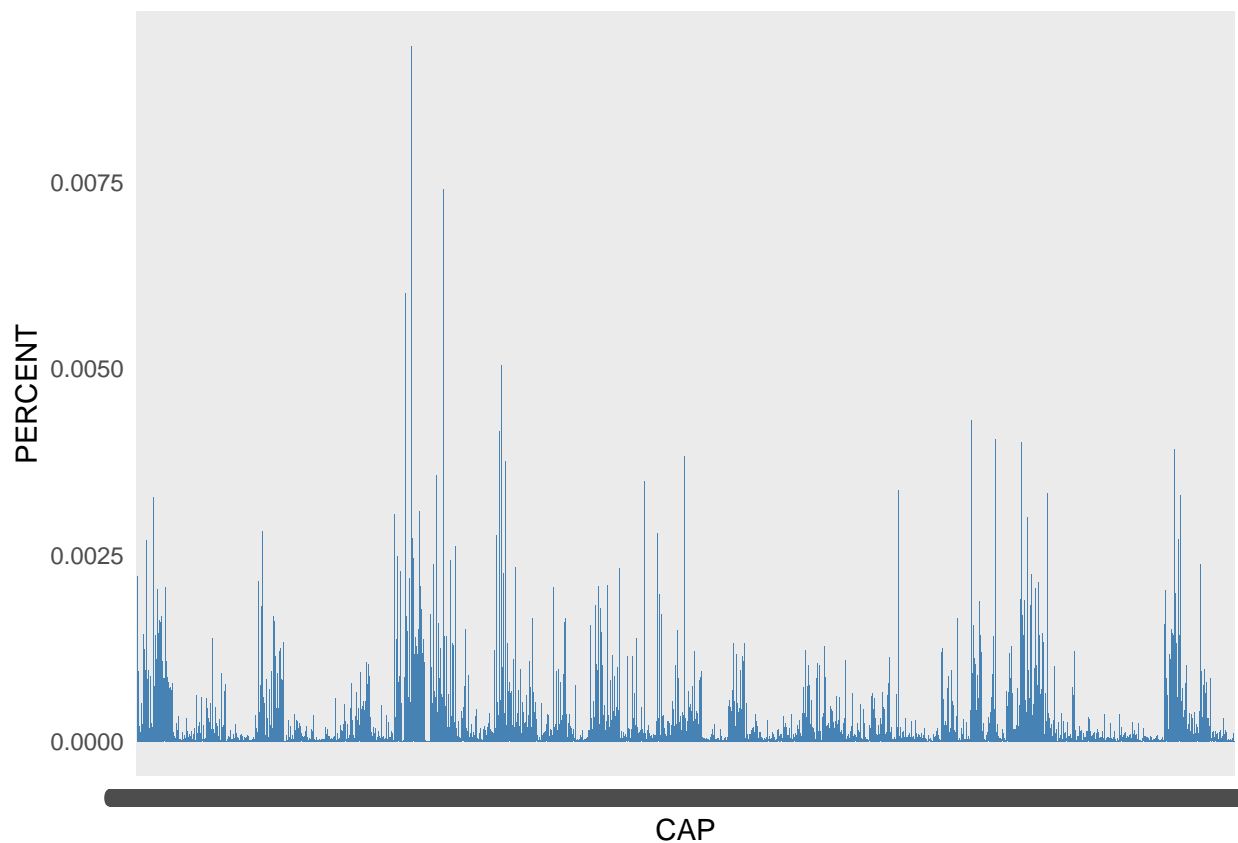


```r
#### FINAL REVIEW df_3_clean ####
```

```r
str(df_3_cli_address_clean)
```

```
## 'data.frame':    337468 obs. of  4 variables:
##  $ ID_ADDRESS: int  1337 1344 1347 1352 1353 1355 1361 1379 1384 1387 ...
##  $ CAP       : chr  "20083" "20024" "20090" "20123" ...
##  $ PRV       : chr  "MI" "MI" "MI" "MI" ...
##  $ REGION    : chr  "LOMBARDIA" "LOMBARDIA" "LOMBARDIA" "LOMBARDIA" ...
```

summary(df_3_cli_address_clean)

```
##    ID_ADDRESS          CAP                PRV                REGION
##  Min.   :     1   Length:337468      Length:337468      Length:337468
##  1st Qu.:219149   Class :character   Class :character   Class :character
##  Median :441844   Mode  :character   Mode  :character   Mode  :character
##  Mean   :444313
##  3rd Qu.:667976
##  Max.   :900090
```

FIRST LOOK of df_4

str(df_4_cli_privacy)

```
## 'data.frame':    369472 obs. of  4 variables:
##  $ ID_CLI         : int  4691 3434 3533 9866 5799 4660 8441 502 13290 6448 ...
##  $ FLAG_PRIVACY_1 : int  1 0 1 1 1 0 0 1 1 1 ...
##  $ FLAG_PRIVACY_2 : int  1 1 1 1 1 1 1 1 1 1 ...
##  $ FLAG_DIRECT_MKT: int  1 0 1 1 1 0 0 1 1 1 ...
```

summary(df_4_cli_privacy)

```
##      ID_CLI       FLAG_PRIVACY_1   FLAG_PRIVACY_2   FLAG_DIRECT_MKT
##  Min.   :     1   Min.   :0.0000   Min.   :0.0000   Min.   :0.0000
##  1st Qu.:230783   1st Qu.:0.0000   1st Qu.:1.0000   1st Qu.:0.0000
##  Median :462063   Median :1.0000   Median :1.0000   Median :1.0000
##  Mean   :462541   Mean   :0.6557   Mean   :0.9356   Mean   :0.6707
##  3rd Qu.:693197   3rd Qu.:1.0000   3rd Qu.:1.0000   3rd Qu.:1.0000
##  Max.   :934919   Max.   :1.0000   Max.   :1.0000   Max.   :1.0000
```

START CLEANING df_4

df_4_cli_privacy_clean <- df_4_cli_privacy

CLEANING DUPLICATE VALUES in df_4

check for duplicates
df_4_cli_privacy_clean **%>%**
  summarise(TOT_ID_CLIs = **n_distinct**(ID_CLI)
           , TOT_ROWs = **n**())

```
##   TOT_ID_CLIs TOT_ROWs
## 1      369472   369472
```

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```
#!!! NOTE:  no duplicates !!!#

#### CLEANING DATA TYPES in df_4 ####

## formatting boolean as factor ##
df_4_cli_privacy_clean <- df_4_cli_privacy_clean %>%
  mutate(FLAG_PRIVACY_1 = as.factor(FLAG_PRIVACY_1)) %>%
  mutate(FLAG_PRIVACY_2 = as.factor(FLAG_PRIVACY_2)) %>%
  mutate(FLAG_DIRECT_MKT = as.factor(FLAG_DIRECT_MKT))

#### CONSISTENCY CHECK ID_CLI in df_1/df_4 ####

cons_idcli_df1_df4 <- df_1_cli_fid_clean %>%
  select(ID_CLI) %>%
  mutate(is_in_df_1 = 1) %>%
  distinct() %>%
  full_join(df_4_cli_privacy_clean %>%
              select(ID_CLI) %>%
              mutate(is_in_df_4 = 1) %>%
              distinct()
            , by = "ID_CLI"
  ) %>%
  group_by(is_in_df_1, is_in_df_4) %>%
  summarise(NUM_ID_CLIs = n_distinct(ID_CLI)) %>%
  as.data.frame()

cons_idcli_df1_df4
```

```
##   is_in_df_1 is_in_df_4 NUM_ID_CLIs
## 1          1          1      369472
```

```
#!!! NOTE: all ID_CLI in df_1 are also in df_4 and vice-versa !!!#

#### EXPLORE COLUMNS of df_4 ####

#### TO DO df_4 ####
# EXPLORE the df_4_cli_privacy_clean relevant variables

# COMPUTE THE DISTRIBUTION OF FLAG_PRIVACY_1

## compute distribution
df_4_cli_privacy_clean_flag1_distrib <- df_4_cli_privacy_clean %>%
  group_by(FLAG_PRIVACY_1) %>%
  summarise(TOT_IDs = n_distinct(ID_CLI)) %>%
  mutate(PERCENT = TOT_IDs/sum(TOT_IDs)) %>%
  arrange(desc(PERCENT))

df_4_cli_privacy_clean_flag1_distrib
```

```
## # A tibble: 2 x 3
##   FLAG_PRIVACY_1 TOT_IDs PERCENT
##   <fct>            <int>   <dbl>
## 1 1               242251   0.656
```

```
## 2 0                    127221    0.344
```

```
## plot distribution
plot_df_4_cli_privacy_clean_flag1_distrib <- (
  ggplot(data=df_4_cli_privacy_clean_flag1_distrib
         , aes(x=FLAG_PRIVACY_1, y=PERCENT)) +
    geom_bar(stat="identity"
             , fill="steelblue") +
    theme_minimal()
)

plot_df_4_cli_privacy_clean_flag1_distrib
```
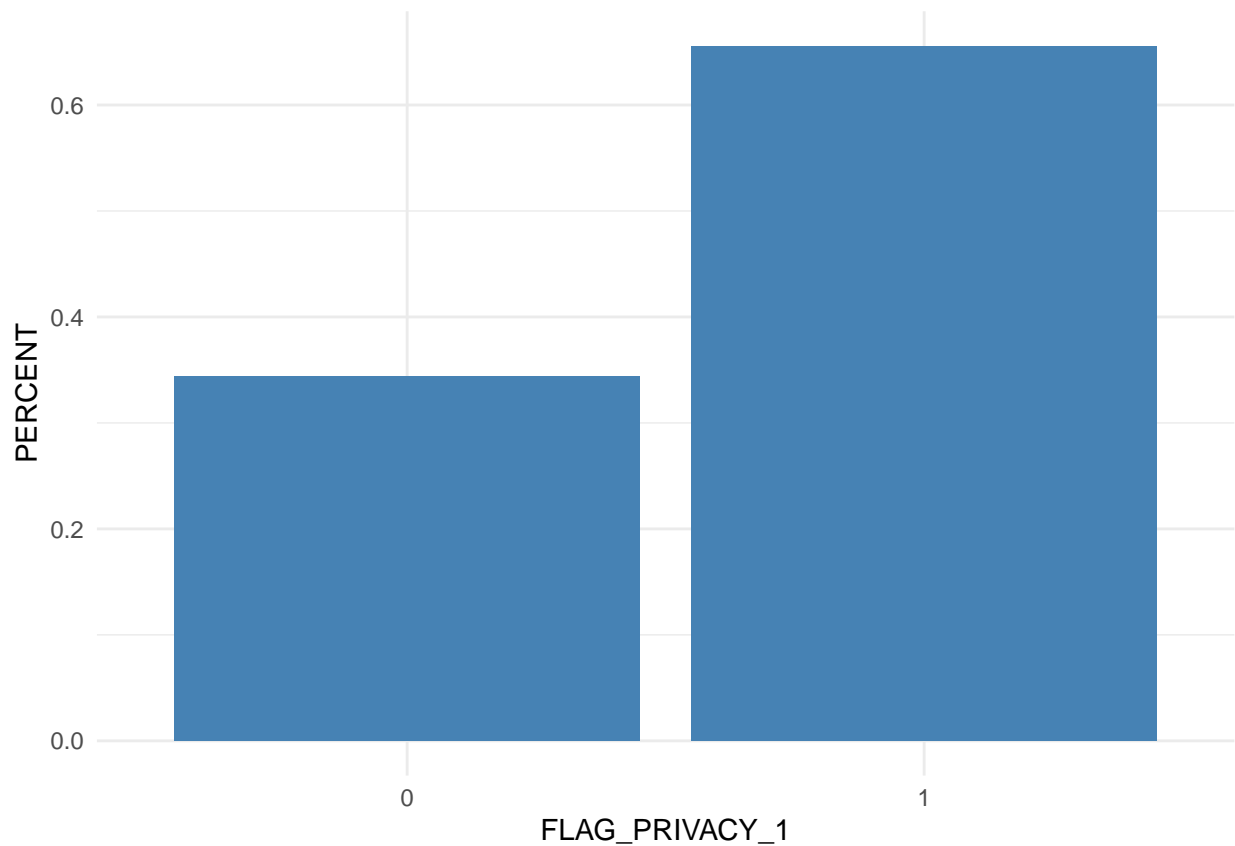


```
# COMPUTE THE DISTRIBUTION OF FLAG_PRIVACY_2

## compute distribution
df_4_cli_privacy_clean_flag2_distrib <- df_4_cli_privacy_clean %>%
  group_by(FLAG_PRIVACY_2) %>%
  summarise(TOT_IDs = n_distinct(ID_CLI)) %>%
  mutate(PERCENT = TOT_IDs/sum(TOT_IDs)) %>%
  arrange(desc(PERCENT))

df_4_cli_privacy_clean_flag2_distrib
```

```
## # A tibble: 2 x 3
```

```
##   FLAG_PRIVACY_2 TOT_IDs PERCENT
##   <fct>            <int>   <dbl>
## 1 1               345682   0.936
## 2 0                23790   0.0644
```

```r
## plot distribution
plot_df_4_cli_privacy_clean_flag2_distrib <- (
  ggplot(data=df_4_cli_privacy_clean_flag2_distrib
         , aes(x=FLAG_PRIVACY_2, y=PERCENT)) +
    geom_bar(stat="identity"
             , fill="steelblue") +
    theme_minimal()
)

plot_df_4_cli_privacy_clean_flag2_distrib
```
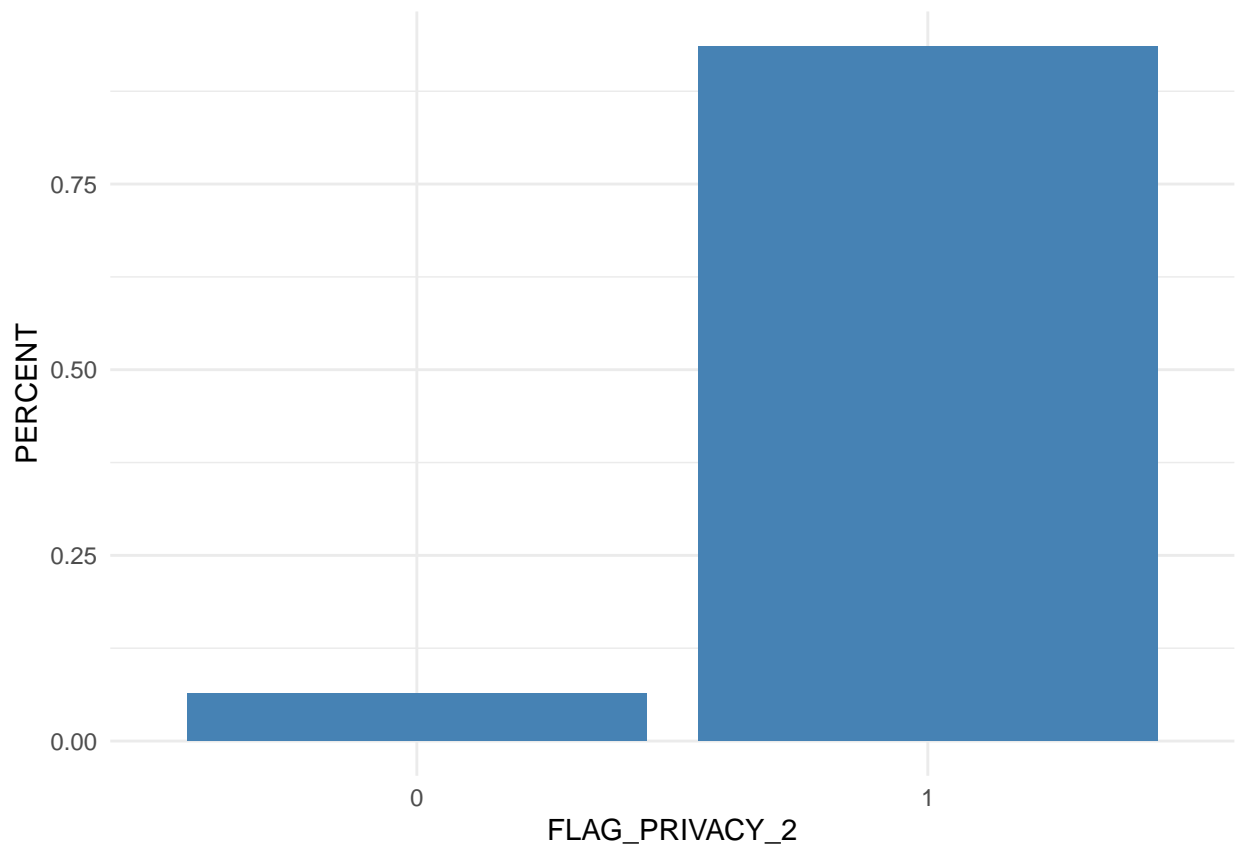


```r
# COMPUTE THE DISTRIBUTION OF FLAG_DIRECT_MKT

## compute distribution
df_4_cli_privacy_clean_flag_mkt_distrib <- df_4_cli_privacy_clean %>%
  group_by(FLAG_DIRECT_MKT) %>%
  summarise(TOT_IDs = n_distinct(ID_CLI)) %>%
  mutate(PERCENT = TOT_IDs/sum(TOT_IDs)) %>%
  arrange(desc(PERCENT))

df_4_cli_privacy_clean_flag_mkt_distrib
```

```
## # A tibble: 2 x 3
##   FLAG_DIRECT_MKT TOT_IDs PERCENT
##   <fct>             <int>   <dbl>
## 1 1                247790   0.671
## 2 0                121682   0.329
```

```r
## plot distribution
plot_df_4_cli_privacy_clean_flag_mkt_distrib <- (
  ggplot(data=df_4_cli_privacy_clean_flag_mkt_distrib
         , aes(x=FLAG_DIRECT_MKT, y=PERCENT)) +
    geom_bar(stat="identity"
             , fill="steelblue") +
    theme_minimal()
)

plot_df_4_cli_privacy_clean_flag_mkt_distrib
```
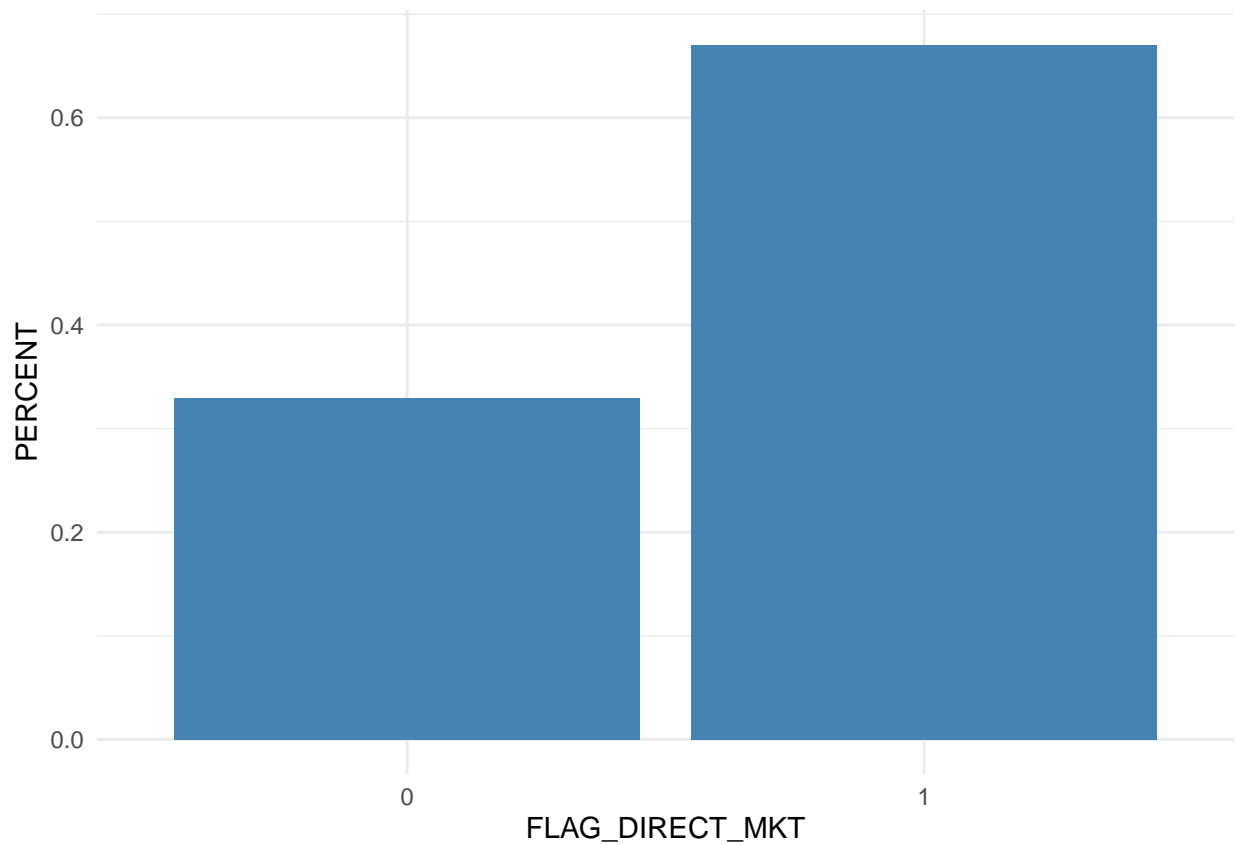


```r
#### FINAL REVIEW df_4_clean ####

str(df_4_cli_privacy_clean)
```

```
## 'data.frame':    369472 obs. of  4 variables:
##  $ ID_CLI        : int  4691 3434 3533 9866 5799 4660 8441 502 13290 6448 ...
##  $ FLAG_PRIVACY_1 : Factor w/ 2 levels "0","1": 2 1 2 2 2 1 1 2 2 2 ...
##  $ FLAG_PRIVACY_2 : Factor w/ 2 levels "0","1": 2 2 2 2 2 2 2 2 2 2 ...
##  $ FLAG_DIRECT_MKT: Factor w/ 2 levels "0","1": 2 1 2 2 2 1 1 2 2 2 ...
```

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```r
summary(df_4_cli_privacy_clean)
```

```
##       ID_CLI       FLAG_PRIVACY_1 FLAG_PRIVACY_2 FLAG_DIRECT_MKT
## Min.   :     1   0:127221       0: 23790       0:121682
## 1st Qu.:230783   1:242251       1:345682       1:247790
## Median :462063
## Mean   :462541
## 3rd Qu.:693197
## Max.   :934919
```

FIRST LOOK of df_5

```r
str(df_5_camp_cat)
```

```
## 'data.frame':    848 obs. of  3 variables:
##  $ ID_CAMP     : int  757 759 760 761 762 763 764 765 767 769 ...
##  $ TYP_CAMP    : chr  "PERSONALIZED" "PERSONALIZED" "PERSONALIZED" "PERSONALIZED" ...
##  $ CHANNEL_CAMP: chr  "EMAIL" "EMAIL" "EMAIL" "EMAIL" ...
```

```r
summary(df_5_camp_cat)
```

```
##      ID_CAMP        TYP_CAMP         CHANNEL_CAMP
## Min.   :   5.0   Length:848         Length:848
## 1st Qu.: 327.8   Class :character   Class :character
## Median : 561.5   Mode  :character   Mode  :character
## Mean   : 559.6
## 3rd Qu.: 812.2
## Max.   :1052.0
```

START CLEANING df_5

```r
df_5_camp_cat_clean <- df_5_camp_cat
```

CLEANING LOW VARIANCE in df_5

```r
df_5_camp_cat_clean <- df_5_camp_cat_clean %>%
  select(-CHANNEL_CAMP)
```

EXPLORE COLUMNS of df_5

TO DO df_5
 # EXPLORE the df_5_camp_cat_clean relevant variables

 # COMPUTE THE DISTRIBUTION OF TYP_CAMP

compute distribution
```r
df_5_camp_cat_clean_TYP_CAMP <- df_5_camp_cat_clean %>%
  group_by(TYP_CAMP) %>%
  summarise(TOT_IDs = n_distinct(ID_CAMP)) %>%
  mutate(PERCENT = TOT_IDs/sum(TOT_IDs)) %>%
  arrange(desc(PERCENT))

df_5_camp_cat_clean_TYP_CAMP
```

```
## # A tibble: 5 x 3
##   TYP_CAMP     TOT_IDs PERCENT
##   <chr>          <int>   <dbl>
## 1 PRODUCT          372  0.439
## 2 PERSONALIZED     169  0.199
## 3 NATIONAL         150  0.177
## 4 NEWSLETTER       109  0.129
## 5 LOCAL             48  0.0566
```

```
## plot distribution
plot_df_5_camp_cat_clean_TYP_CAMP <- (
  ggplot(data=df_5_camp_cat_clean_TYP_CAMP
         , aes(x=TYP_CAMP, y=PERCENT)) +
    geom_bar(stat="identity"
             , fill="steelblue") +
    theme_minimal()
)

plot_df_5_camp_cat_clean_TYP_CAMP
```
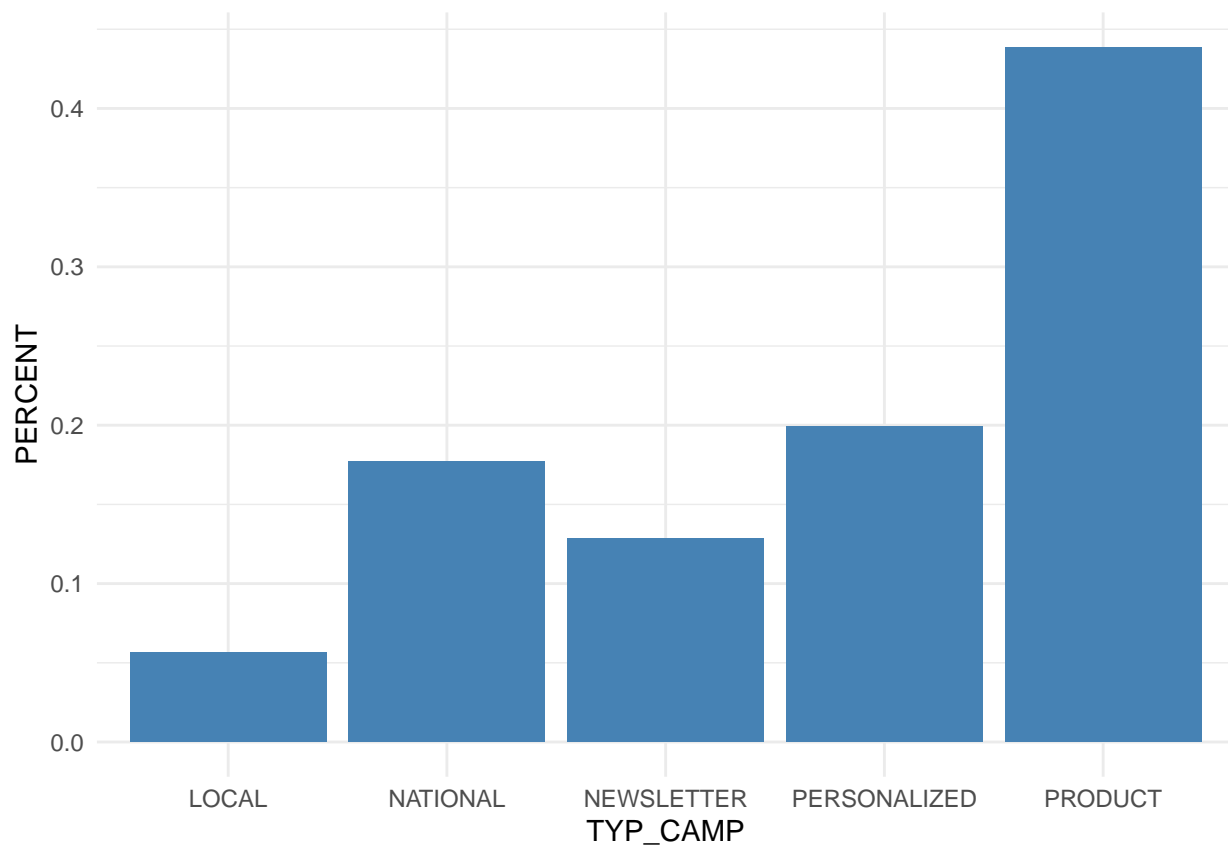


```
#### FINAL REVIEW df_5_clean ####
```

```
str(df_5_camp_cat_clean)
```

```
## 'data.frame':    848 obs. of  2 variables:
```

```
## $ ID_CAMP : int  757 759 760 761 762 763 764 765 767 769 ...
## $ TYP_CAMP: chr  "PERSONALIZED" "PERSONALIZED" "PERSONALIZED" "PERSONALIZED" ...
```

```r
summary(df_5_camp_cat_clean)
```

```
##     ID_CAMP        TYP_CAMP
## Min.   :   5.0   Length:848
## 1st Qu.: 327.8   Class :character
## Median : 561.5   Mode  :character
## Mean   : 559.6
## 3rd Qu.: 812.2
## Max.   :1052.0
```

```r
#_____
```

```r
#### FIRST LOOK of df_6 ####
```

```r
str(df_6_camp_event)
```

```
## 'data.frame':    2060360 obs. of  6 variables:
## $ ID_EVENT   : int  11548588 11548640 11548572 11548515 11548609 11548497 11548441 11548490 1154862!
## $ ID_CLI     : int  411925 313259 327299 627427 265258 693938 610832 515395 59640 515395 ...
## $ ID_CAMP    : int  948 949 941 923 950 955 946 829 951 951 ...
## $ ID_DELIVERY: int  8996 8997 8817 8263 8998 9115 8970 8876 9032 9032 ...
## $ TYP_EVENT  : chr  "V" "V" "V" "V" ...
## $ EVENT_DATE : chr  "2019-01-01T01:42:24" "2019-01-01T02:54:04" "2019-01-01T01:23:29" "2019-01-01T0(
```

```r
summary(df_6_camp_event)
```

```
##    ID_EVENT            ID_CLI           ID_CAMP         ID_DELIVERY
## Min.   :11548441   Min.   :     1   Min.   : 148.0   Min.   : 7680
## 1st Qu.:13526812   1st Qu.:208129   1st Qu.: 970.0   1st Qu.:10066
## Median :14867410   Median :398084   Median : 991.0   Median :10585
## Mean   :14757544   Mean   :413793   Mean   : 928.9   Mean   :10534
## 3rd Qu.:16284762   3rd Qu.:618440   3rd Qu.:1024.0   3rd Qu.:11151
## Max.   :17650340   Max.   :931973   Max.   :1048.0   Max.   :11509
##   TYP_EVENT          EVENT_DATE
## Length:2060360     Length:2060360
## Class :character   Class :character
## Mode  :character   Mode  :character
##
##
##
```

```r
#### START CLEANING df_6 ####
```

```r
df_6_camp_event_clean <- df_6_camp_event
```

```r
#### CLEANING DATA TYPES in df_6 ####
```

```
## formatting dates and times ##
df_6_camp_event_clean <- df_6_camp_event_clean %>%
  mutate(EVENT_DATETIME = as.POSIXct(EVENT_DATE, format="%Y-%m-%dT%H:%M:%S")) %>%
  mutate(EVENT_HOUR = hour(EVENT_DATETIME)) %>%
  mutate(EVENT_DATE = as.Date(EVENT_DATETIME))


#### CONSISTENCY CHECK ID_CLI in df_1/df_6 ####

cons_idcli_df1_df6 <- df_1_cli_fid_clean %>%
  select(ID_CLI) %>%
  distinct() %>%
  mutate(is_in_df_1 = 1) %>%
  distinct() %>%
  full_join(df_6_camp_event_clean %>%
              select(ID_CLI) %>%
              distinct() %>%
              mutate(is_in_df_6 = 1) %>%
              distinct()
            , by = "ID_CLI"
  ) %>%
  group_by(is_in_df_1, is_in_df_6) %>%
  summarise(NUM_ID_CLIs = n_distinct(ID_CLI)) %>%
  as.data.frame()

cons_idcli_df1_df6
```

```
##   is_in_df_1 is_in_df_6 NUM_ID_CLIs
## 1          1          1      202023
## 2          1         NA      167449
```

```
#!!! NOTE: all ID_CLI in df_6 are mapped in df_1, but not all ID_CLI in df_1 are mapped in df_6 !!!#

#### CONSISTENCY CHECK ID_CAMP in df_5/df_6 ####

cons_idcamp_df5_df6 <- df_5_camp_cat_clean %>%
  select(ID_CAMP) %>%
  distinct() %>%
  mutate(is_in_df_5 = 1) %>%
  distinct() %>%
  full_join(df_6_camp_event_clean %>%
              select(ID_CAMP) %>%
              distinct() %>%
              mutate(is_in_df_6 = 1) %>%
              distinct()
            , by = "ID_CAMP"
  ) %>%
  group_by(is_in_df_5, is_in_df_6) %>%
  summarise(NUM_ID_CAMPs = n_distinct(ID_CAMP)) %>%
  as.data.frame()

cons_idcamp_df5_df6
```

```
##   is_in_df_5 is_in_df_6 NUM_ID_CAMPs
```

```
## 1              1              1              149
## 2              1              NA             699
```

#!!! NOTE: all ID_CAMP in df_6 are mapped in df_5, but not all ID_CAMP in df_5 are mapped in df_6 !!!#

RESHAPING df_6

remapping TYPE_EVENT values "E" [ERROR] and "B" [BOUNCE] into a level "F" [FAILURE]
df_6_camp_event_clean <- df_6_camp_event_clean %>%
  mutate(TYP_EVENT = as.factor(if_else(TYP_EVENT == "E" | TYP_EVENT == "B", "F", as.character(TYP_EVENT)

adding type from df_5
df_6_camp_event_clean <- df_6_camp_event_clean %>%
  left_join(df_5_camp_cat_clean
            , by = "ID_CAMP")

organize the data adding to each sending event the corresponding opens/clicks/fails

# sends
df_sends <- df_6_camp_event_clean %>%
  filter(TYP_EVENT == "S") %>%
  select(-TYP_EVENT) %>%
  select(ID_EVENT_S = ID_EVENT, ID_CLI, ID_CAMP, TYP_CAMP, ID_DELIVERY, SEND_DATE = EVENT_DATE) %>% as.

opens
there could be multiple opens of the same communication
1- count the open events
2- consider explicitly only the first open

df_opens_prep <- df_6_camp_event_clean %>%
  filter(TYP_EVENT == "V") %>%
  select(-TYP_EVENT) %>%
  select(ID_EVENT_O = ID_EVENT
         , ID_CLI
         , ID_CAMP
         , TYP_CAMP
         , ID_DELIVERY
         , OPEN_DATETIME = EVENT_DATETIME
         , OPEN_DATE = EVENT_DATE)

total_opens <- df_opens_prep %>%
  group_by(ID_CLI
           , ID_CAMP
           , ID_DELIVERY) %>%
  summarise(NUM_OPENs = n_distinct(ID_EVENT_O))

df_opens <- df_opens_prep %>%
  left_join(total_opens
            , by = c("ID_CLI", "ID_CAMP", "ID_DELIVERY")) %>%
  group_by(ID_CLI
           , ID_CAMP
           , ID_DELIVERY) %>%
  filter(OPEN_DATETIME == min(OPEN_DATETIME)) %>%
  filter(row_number() == 1) %>%
```

```r
  ungroup() %>%
  as.data.frame()

# clicks
# there could be multiple clicks of the same communication
# 1- count the click events
# 2- consider explicitely only the first click

df_clicks_prep <- df_6_camp_event_clean %>%
  filter(TYP_EVENT == "C") %>%
  select(-TYP_EVENT) %>%
  select(ID_EVENT_C = ID_EVENT
        , ID_CLI
        , ID_CAMP
        , TYP_CAMP
        , ID_DELIVERY
        , CLICK_DATETIME = EVENT_DATETIME
        , CLICK_DATE = EVENT_DATE)

total_clicks <- df_clicks_prep %>%
  group_by(ID_CLI
          , ID_CAMP
          , ID_DELIVERY) %>%
  summarise(NUM_CLICKs = n_distinct(ID_EVENT_C))

df_clicks <- df_clicks_prep %>%
  left_join(total_clicks
            , by = c("ID_CLI", "ID_CAMP", "ID_DELIVERY")) %>%
  group_by(ID_CLI
          , ID_CAMP
          , ID_DELIVERY) %>%
  filter(CLICK_DATETIME == min(CLICK_DATETIME)) %>%
  filter(row_number() == 1) %>%
  ungroup() %>%
  as.data.frame()

# fails
df_fails <- df_6_camp_event_clean %>%
  filter(TYP_EVENT == "F") %>%
  select(-TYP_EVENT) %>%
  select(ID_EVENT_F = ID_EVENT
        , ID_CLI
        , ID_CAMP
        , TYP_CAMP
        , ID_DELIVERY
        , FAIL_DATETIME = EVENT_DATETIME
        , FAIL_DATE = EVENT_DATE) %>%
  group_by(ID_CLI, ID_CAMP, ID_DELIVERY) %>%
  filter(FAIL_DATETIME == min(FAIL_DATETIME)) %>%
  filter(row_number() == 1) %>%
  ungroup() %>%
  as.data.frame()
```

```r
# combine sends opens clicks and fails
df_6_camp_event_clean_final <- df_sends %>%
  left_join(df_opens
            , by = c("ID_CLI", "ID_CAMP", "ID_DELIVERY", "TYP_CAMP")
  ) %>%
  filter(is.na(OPEN_DATE) | SEND_DATE <= OPEN_DATE) %>%
  left_join(df_clicks
            , by = c("ID_CLI", "ID_CAMP", "ID_DELIVERY", "TYP_CAMP")
  ) %>%
  filter(is.na(CLICK_DATE) | OPEN_DATE <= CLICK_DATE) %>%
  left_join(df_fails
            , by = c("ID_CLI", "ID_CAMP", "ID_DELIVERY", "TYP_CAMP")
  ) %>%
  filter(is.na(FAIL_DATE) | SEND_DATE <= FAIL_DATE) %>%
  mutate(OPENED = !is.na(ID_EVENT_O)) %>%
  mutate(CLICKED = !is.na(ID_EVENT_C)) %>%
  mutate(FAILED = !is.na(ID_EVENT_F)) %>%
  mutate(DAYS_TO_OPEN = as.integer(OPEN_DATE - SEND_DATE)) %>%
  select(ID_EVENT_S
         , ID_CLI
         , ID_CAMP
         , TYP_CAMP
         , ID_DELIVERY
         , SEND_DATE

         , OPENED
         , OPEN_DATE
         , DAYS_TO_OPEN
         , NUM_OPENs

         , CLICKED
         , CLICK_DATE
         , NUM_CLICKs

         , FAILED
  )

#### EXPLORE VARIABLES in df_6 ####

### GENERAL OVERVIEW ###

## compute aggregate
df6_overview <- df_6_camp_event_clean_final %>%
  summarise(MIN_DATE = min(SEND_DATE)
            , MAX_DATE = max(SEND_DATE)
            , TOT_EVENTs = n_distinct(ID_EVENT_S)
            , TOT_CLIs = n_distinct(ID_CLI))

df6_overview
```

```
##     MIN_DATE   MAX_DATE TOT_EVENTs TOT_CLIs
## 1 2019-01-03 2019-04-30    1556646   190427
```

```
### GENERAL OVERVIEW by TYP_CAMP ###

## compute aggregate
df6_overviewbytyp <- df_6_camp_event_clean_final %>%
  group_by(TYP_CAMP) %>%
  summarise(MIN_DATE = min(SEND_DATE)
            , MAX_DATE = max(SEND_DATE)
            , TOT_EVENTs = n_distinct(ID_EVENT_S)
            , TOT_CLIs = n_distinct(ID_CLI))

df6_overviewbytyp
```

```
## # A tibble: 4 x 5
##   TYP_CAMP     MIN_DATE   MAX_DATE   TOT_EVENTs TOT_CLIs
##   <chr>        <date>     <date>          <int>    <int>
## 1 LOCAL        2019-02-02 2019-04-02     151719    87894
## 2 NATIONAL     2019-01-07 2019-04-23     833085   177153
## 3 PERSONALIZED 2019-01-03 2019-04-30     194840   133908
## 4 PRODUCT      2019-01-03 2019-04-25     377002    69724
```

```
## plot aggregate
plot_df6_overviewbytyp <- (
  ggplot(data=df6_overviewbytyp
         , aes(x=TYP_CAMP, y=TOT_EVENTs)) +
    geom_bar(stat="identity", fill="steelblue") +
    theme_minimal()
)

plot_df6_overviewbytyp
```
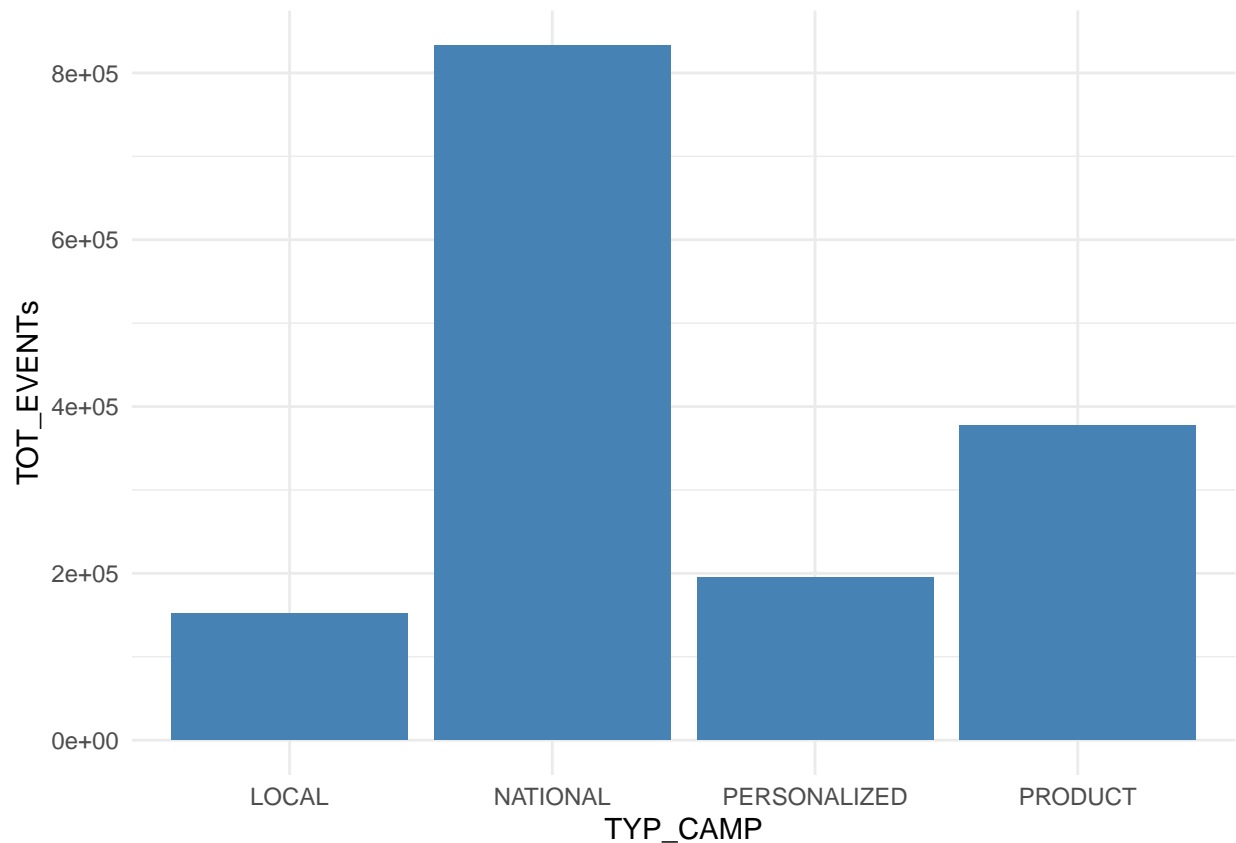
```
### Variable OPENED ###

## compute aggregate
df6_dist_opened <- df_6_camp_event_clean_final %>%
  group_by(OPENED) %>%
  summarise(TOT_EVENTs = n_distinct(ID_EVENT_S)
            , TOT_CLIs = n_distinct(ID_CLI)) %>%
  mutate(TYP_CAMP = 'ALL') %>%
  mutate(PERCENT_EVENTs = TOT_EVENTs/df6_overview$TOT_EVENTs
        , PERCENT_CLIs = TOT_CLIs/df6_overview$TOT_CLIs)

df6_dist_opened
```

```
## # A tibble: 2 x 6
##    OPENED TOT_EVENTs TOT_CLIs TYP_CAMP PERCENT_EVENTs PERCENT_CLIs
##    <lgl>       <int>    <int> <chr>             <dbl>        <dbl>
## 1 FALSE     1278264   178378 ALL               0.821        0.937
## 2 TRUE       278382    83420 ALL               0.179        0.438
```

```
## plot aggregate
plot_df6_dist_opened <- (
  ggplot(data=df6_dist_opened
         , aes(fill=OPENED, x=TYP_CAMP, y=TOT_EVENTs)) +
    geom_bar(stat="identity", position="fill") +
    theme_minimal()
```

```
)

plot_df6_dist_opened
```
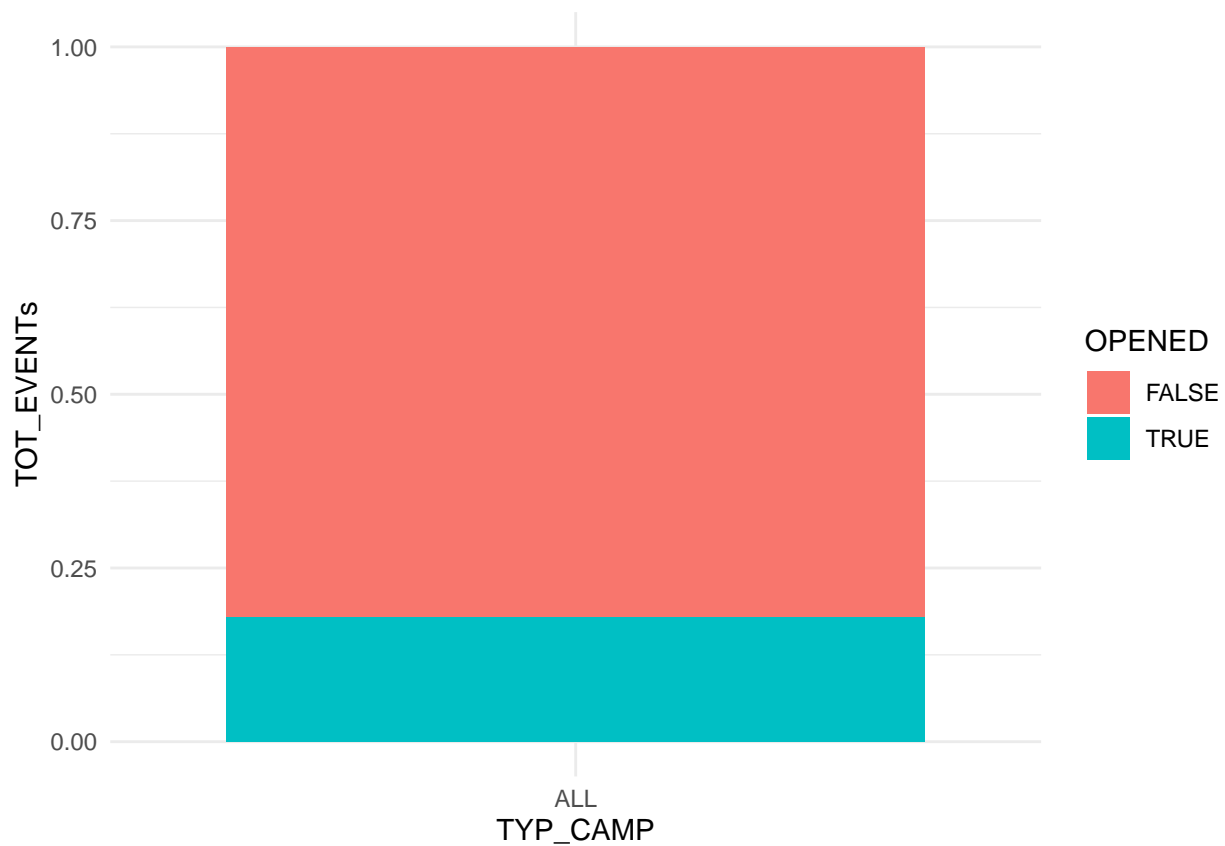
```
### Variable OPENED by TYP_CAMP ###

## compute aggregate
df6_dist_openedbytyp <- df_6_camp_event_clean_final %>%
  group_by(TYP_CAMP, OPENED) %>%
  summarise(TOT_EVENTs = n_distinct(ID_EVENT_S)
            , TOT_CLIs = n_distinct(ID_CLI)) %>%
  left_join(df6_overviewbytyp %>%
              select(TYP_CAMP
                     , ALL_TOT_EVENTs = TOT_EVENTs
                     , ALL_TOT_CLIs = TOT_CLIs)
            , by='TYP_CAMP') %>%
  mutate(PERCENT_EVENTs = TOT_EVENTs/ALL_TOT_EVENTs
         , PERCENT_CLIs = TOT_CLIs/ALL_TOT_CLIs) %>%
  select(TYP_CAMP
         , OPENED
         , TOT_EVENTs
         , TOT_CLIs
         , PERCENT_EVENTs
         , PERCENT_CLIs
  )
```

```
df6_dist_openedbytyp
```

```
## # A tibble: 8 x 6
## # Groups:   TYP_CAMP [4]
##    TYP_CAMP      OPENED TOT_EVENTs TOT_CLIs PERCENT_EVENTs PERCENT_CLIs
##    <chr>         <lgl>       <int>    <int>          <dbl>        <dbl>
## 1 LOCAL         FALSE      126700    76835          0.835        0.874
## 2 LOCAL         TRUE        25019    18029          0.165        0.205
## 3 NATIONAL      FALSE      710721   162049          0.853        0.915
## 4 NATIONAL      TRUE       122364    62964          0.147        0.355
## 5 PERSONALIZED  FALSE      156431   111942          0.803        0.836
## 6 PERSONALIZED  TRUE        38409    31327          0.197        0.234
## 7 PRODUCT       FALSE      284412    62356          0.754        0.894
## 8 PRODUCT       TRUE        92590    29605          0.246        0.425
```

```r
## plot aggregate
plot_df6_dist_openedbytyp <- (
  ggplot(data=df6_dist_openedbytyp
         , aes(fill=OPENED, x=TYP_CAMP, y=TOT_EVENTs)) +
    geom_bar(stat="identity") +
    theme_minimal()
)

plot_df6_dist_openedbytyp
```
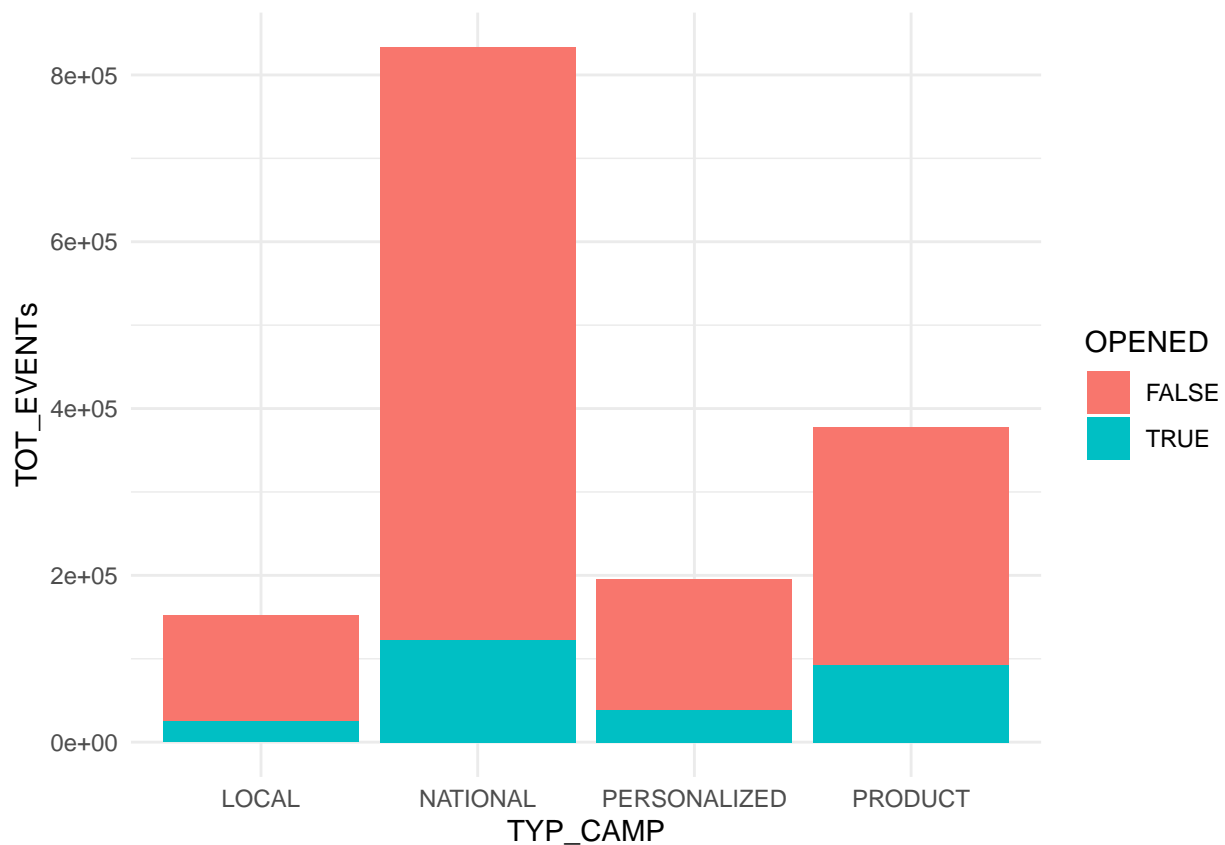
```
## plot aggregate percent
plot_df6_dist_openedbytyp_percent <- (
  ggplot(data=df6_dist_openedbytyp
         , aes(fill=OPENED, x=TYP_CAMP, y=TOT_EVENTs)) +
    geom_bar(position="fill", stat="identity") +
    theme_minimal()
)

plot_df6_dist_openedbytyp_percent
```
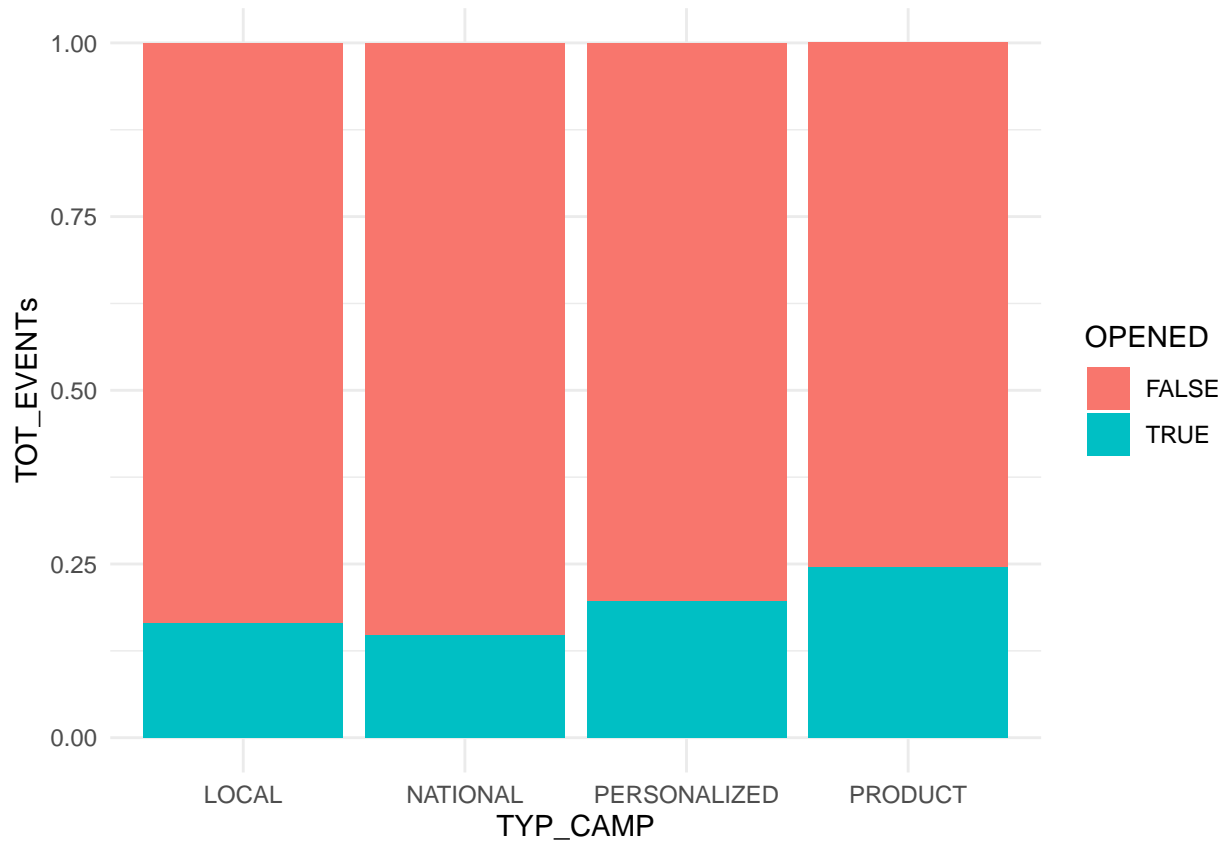


```
### Variable DAYS_TO_OPEN

## compute aggregate
df6_dist_daystoopen <- df_6_camp_event_clean_final %>%
  filter(OPENED) %>%
  group_by(ID_CLI) %>%
  summarise(AVG_DAYS_TO_OPEN = floor(mean(DAYS_TO_OPEN))) %>%
  ungroup() %>%
  group_by(AVG_DAYS_TO_OPEN) %>%
  summarise(TOT_CLIs = n_distinct(ID_CLI))

df6_dist_daystoopen
```

```
## # A tibble: 59 x 2
##    AVG_DAYS_TO_OPEN TOT_CLIs
```

```
##                 <dbl>    <int>
##  1                 0    53379
##  2                 1    12221
##  3                 2     4849
##  4                 3     3036
##  5                 4     2131
##  6                 5     1467
##  7                 6     1158
##  8                 7      786
##  9                 8      573
## 10                 9      469
## # ... with 49 more rows
```

```r
## plot aggregate
plot_df6_dist_daystoopen <- (
  ggplot(data=df6_dist_daystoopen %>%
           filter(AVG_DAYS_TO_OPEN < 14)
         , aes(x=AVG_DAYS_TO_OPEN, y=TOT_CLIs)) +
    geom_bar(stat="identity", fill="steelblue") +
    theme_minimal()
)

plot_df6_dist_daystoopen
```
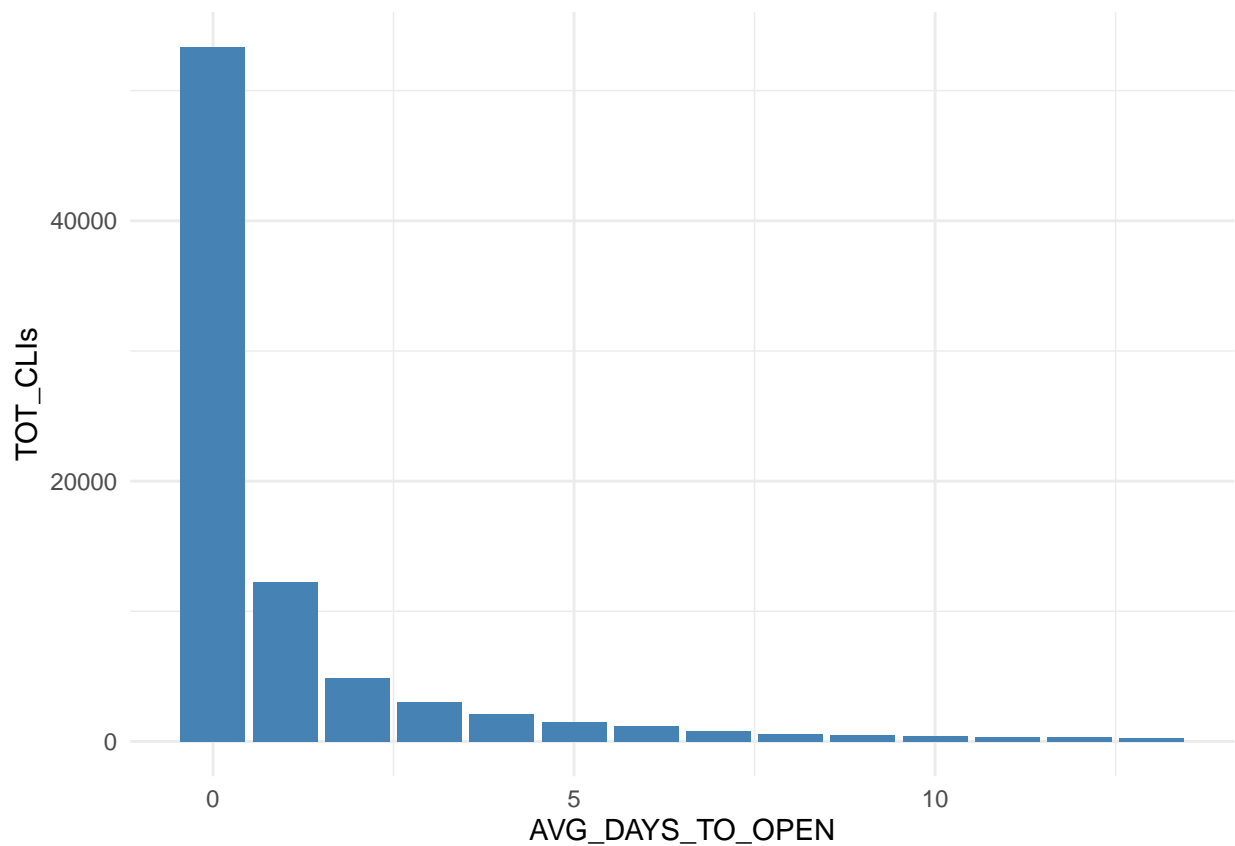
```
### DAYS_TO_OPEN vs CUMULATE PERCENT ###

## compute aggregate
df6_dist_daystoopen_vs_cumulate <- df6_dist_daystoopen %>%
  arrange(AVG_DAYS_TO_OPEN) %>%
  mutate(PERCENT_COVERED = cumsum(TOT_CLIs)/sum(TOT_CLIs))

## plot aggregate
plot_df6_dist_daystoopen_vs_cumulate <- (
  ggplot(data=df6_dist_daystoopen_vs_cumulate %>%
          filter(AVG_DAYS_TO_OPEN < 14)
        , aes(x=AVG_DAYS_TO_OPEN, y=PERCENT_COVERED)) +
    geom_line() +
    geom_point() +
    scale_x_continuous(breaks=seq(0,14,2), minor_breaks=0:14) +
    theme_minimal()
)

plot_df6_dist_daystoopen_vs_cumulate
```
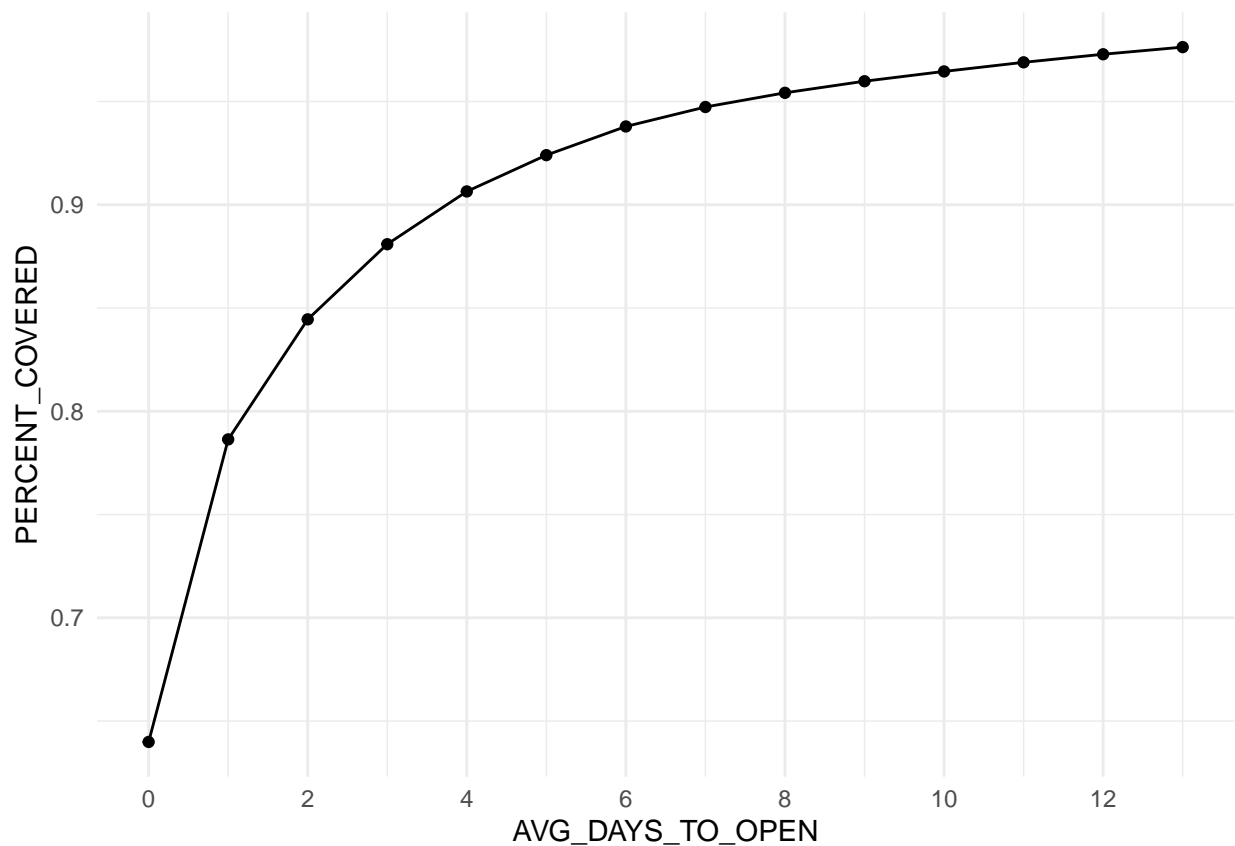


```
#### TO DO df_6 ####
# EXPLORE the following relevant variables in df_6_camp_event_clean_final:

# - CLICKED/CLICKED by TYP_CAMP
## compute aggregate
```

```
df6_dist_clickedbytyp <- df_6_camp_event_clean_final %>%
  group_by(TYP_CAMP, CLICKED)  %>%
  summarise(TOT_EVENTs = n_distinct(ID_EVENT_S)
            , TOT_CLIs = n_distinct(ID_CLI)) %>%
  left_join(df6_overviewbytyp %>%
              select(TYP_CAMP
                     , ALL_TOT_EVENTs = TOT_EVENTs
                     , ALL_TOT_CLIs = TOT_CLIs)
            , by='TYP_CAMP') %>%
  mutate(PERCENT_EVENTs = TOT_EVENTs/ALL_TOT_EVENTs
         , PERCENT_CLIs = TOT_CLIs/ALL_TOT_CLIs) %>%
  select(TYP_CAMP
         , CLICKED
         , TOT_EVENTs
         , TOT_CLIs
         , PERCENT_EVENTs
         , PERCENT_CLIs
  )


df6_dist_clickedbytyp
```

```
## # A tibble: 8 x 6
## # Groups:   TYP_CAMP [4]
##   TYP_CAMP     CLICKED TOT_EVENTs TOT_CLIs PERCENT_EVENTs PERCENT_CLIs
##   <chr>        <lgl>        <int>    <int>          <dbl>        <dbl>
## 1 LOCAL        FALSE       150374    87332          0.991        0.994
## 2 LOCAL        TRUE          1345     1280          0.00887      0.0146
## 3 NATIONAL     FALSE       815796   175939          0.979        0.993
## 4 NATIONAL     TRUE         17289    14216          0.0208       0.0802
## 5 PERSONALIZED FALSE       192741   133043          0.989        0.994
## 6 PERSONALIZED TRUE          2099     2016          0.0108       0.0151
## 7 PRODUCT      FALSE       362551    69373          0.962        0.995
## 8 PRODUCT      TRUE         14451     8800          0.0383       0.126
```

```
## plot aggregate
plot_df6_dist_clickedbytyp <- (
  ggplot(data=df6_dist_clickedbytyp
         , aes(fill=CLICKED, x=TYP_CAMP, y=TOT_EVENTs)) +
    geom_bar(stat="identity") +
    theme_minimal()
)


plot_df6_dist_clickedbytyp
```
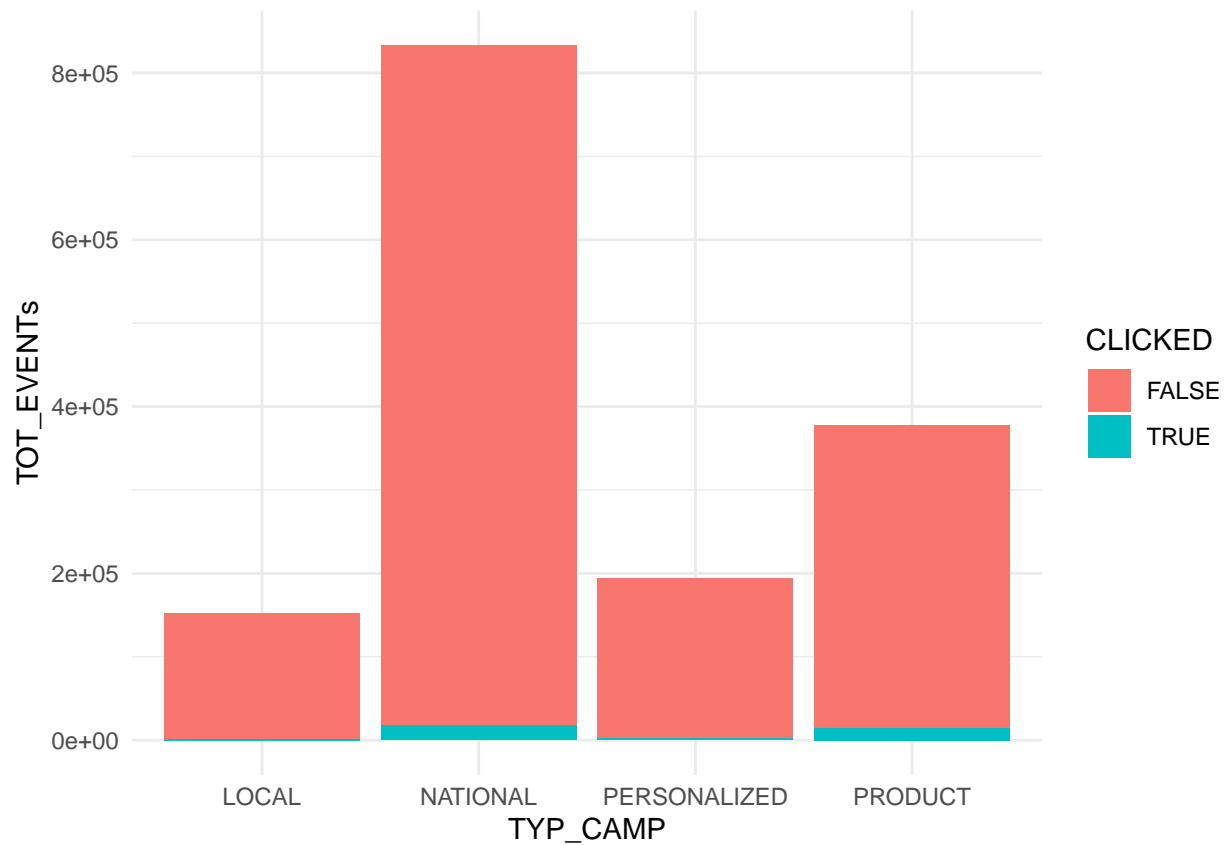
```
## plot aggregate percent
plot_df6_dist_clickedbytyp_percent <- (
  ggplot(data=df6_dist_clickedbytyp
         , aes(fill=CLICKED, x=TYP_CAMP, y=TOT_EVENTs)) +
    geom_bar(position="fill", stat="identity") +
    theme_minimal()
)

plot_df6_dist_clickedbytyp_percent
```
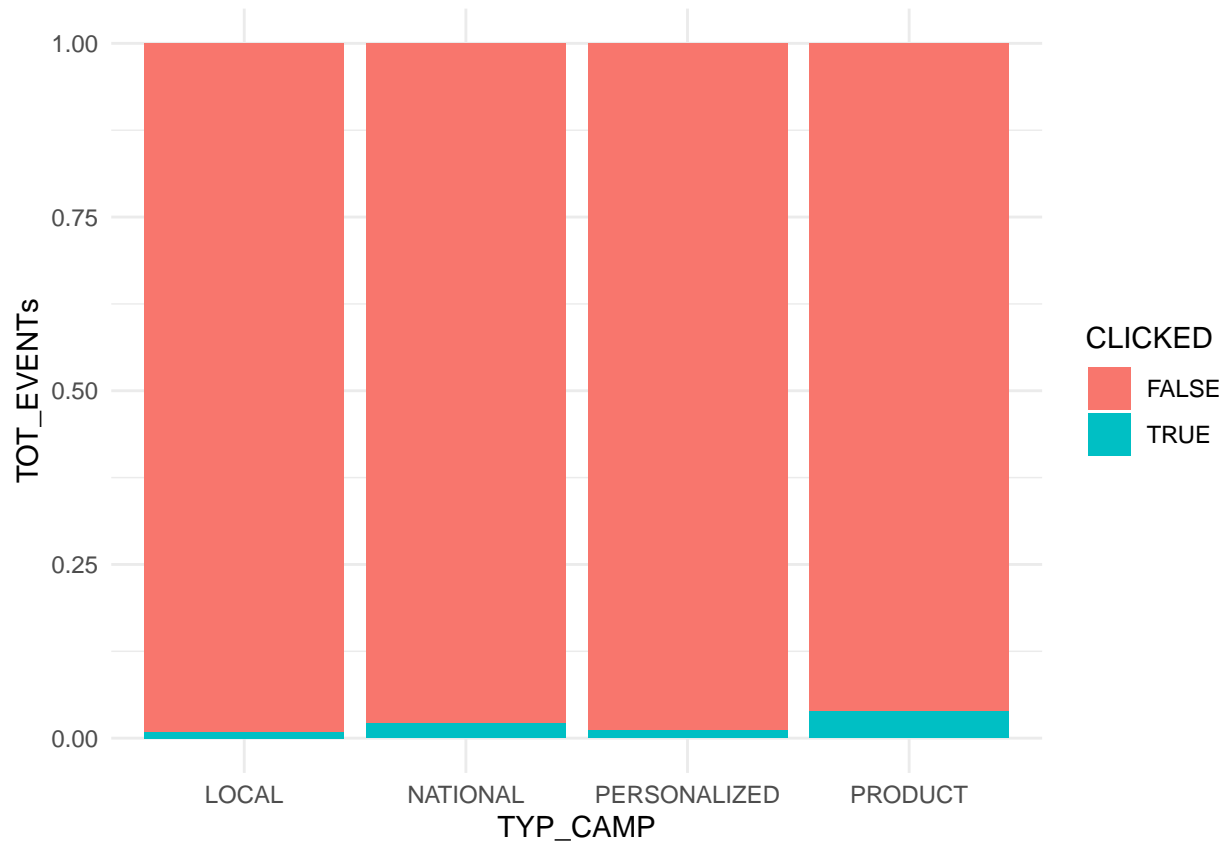
```
# - FAILED/FAILED by TYP_CAP

## compute aggregate
df6_dist_failedbytyp <- df_6_camp_event_clean_final %>%
  group_by(TYP_CAMP, FAILED)  %>%
  summarise(TOT_EVENTs = n_distinct(ID_EVENT_S)
            , TOT_CLIs = n_distinct(ID_CLI)) %>%
  left_join(df6_overviewbytyp %>%
              select(TYP_CAMP
                     , ALL_TOT_EVENTs = TOT_EVENTs
                     , ALL_TOT_CLIs = TOT_CLIs)
            , by='TYP_CAMP') %>%
  mutate(PERCENT_EVENTs = TOT_EVENTs/ALL_TOT_EVENTs
         , PERCENT_CLIs = TOT_CLIs/ALL_TOT_CLIs) %>%
  select(TYP_CAMP
         , FAILED
         , TOT_EVENTs
         , TOT_CLIs
         , PERCENT_EVENTs
         , PERCENT_CLIs
  )

df6_dist_failedbytyp
```

```
## # A tibble: 8 x 6
```

```
## # Groups:   TYP_CAMP [4]
##   TYP_CAMP    FAILED TOT_EVENTs TOT_CLIs PERCENT_EVENTs PERCENT_CLIs
##   <chr>       <lgl>      <int>    <int>          <dbl>        <dbl>
## 1 LOCAL       FALSE     149189    86540          0.983        0.985
## 2 LOCAL       TRUE        2530     1653         0.0167       0.0188
## 3 NATIONAL    FALSE     814897   174425          0.978        0.985
## 4 NATIONAL    TRUE       18188     7045         0.0218       0.0398
## 5 PERSONALIZED FALSE    192844   132774          0.990        0.992
## 6 PERSONALIZED TRUE       1996     1690         0.0102       0.0126
## 7 PRODUCT     FALSE     371788    68960          0.986        0.989
## 8 PRODUCT     TRUE        5214     1729         0.0138       0.0248
```

```
## plot aggregate
plot_df6_dist_failedbytyp <- (
  ggplot(data=df6_dist_failedbytyp
         , aes(fill=FAILED, x=TYP_CAMP, y=TOT_EVENTs)) +
    geom_bar(stat="identity") +
    theme_minimal()
)

plot_df6_dist_failedbytyp
```
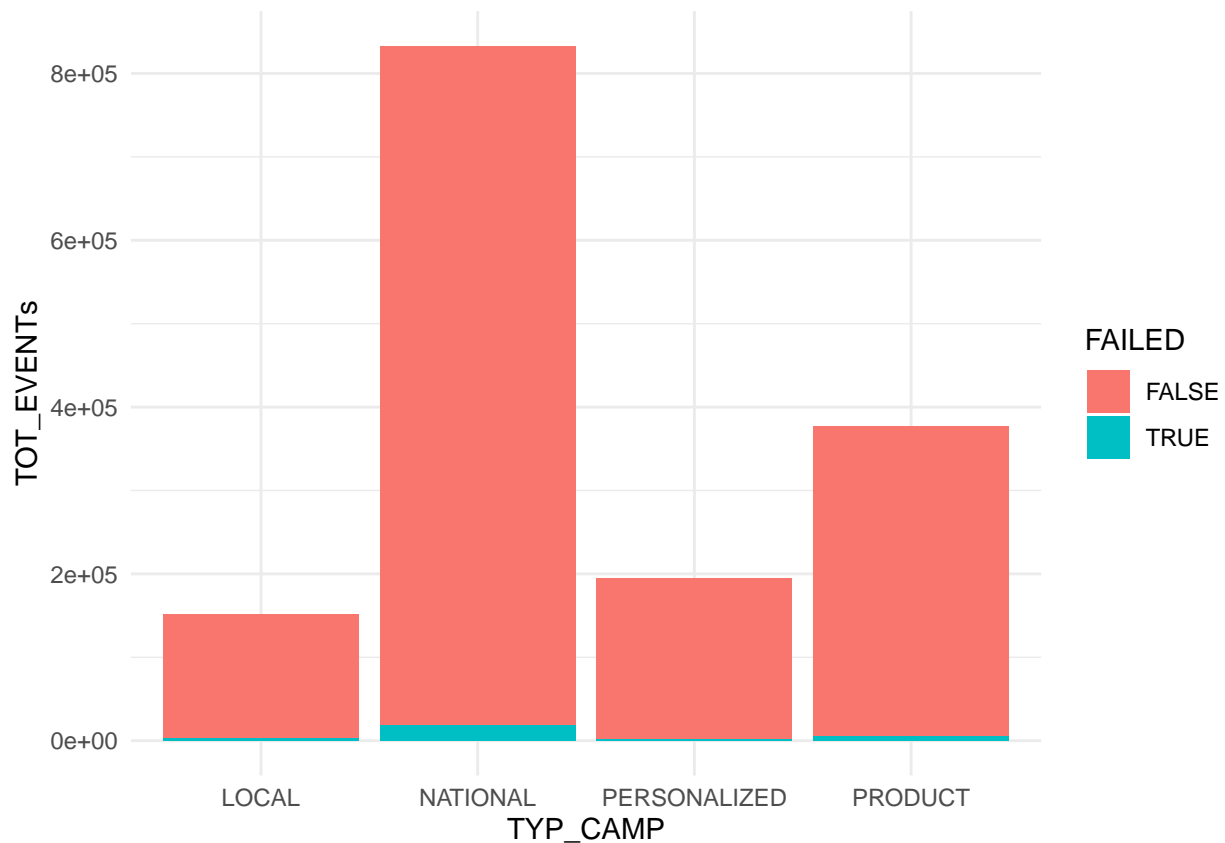


```
## plot aggregate percent
plot_df6_dist_failedbytyp_percent <- (
  ggplot(data=df6_dist_failedbytyp
```

```
          , aes(fill=FAILED, x=TYP_CAMP, y=TOT_EVENTs)) +
    geom_bar(position="fill", stat="identity") +
    theme_minimal()
)

plot_df6_dist_failedbytyp_percent
```
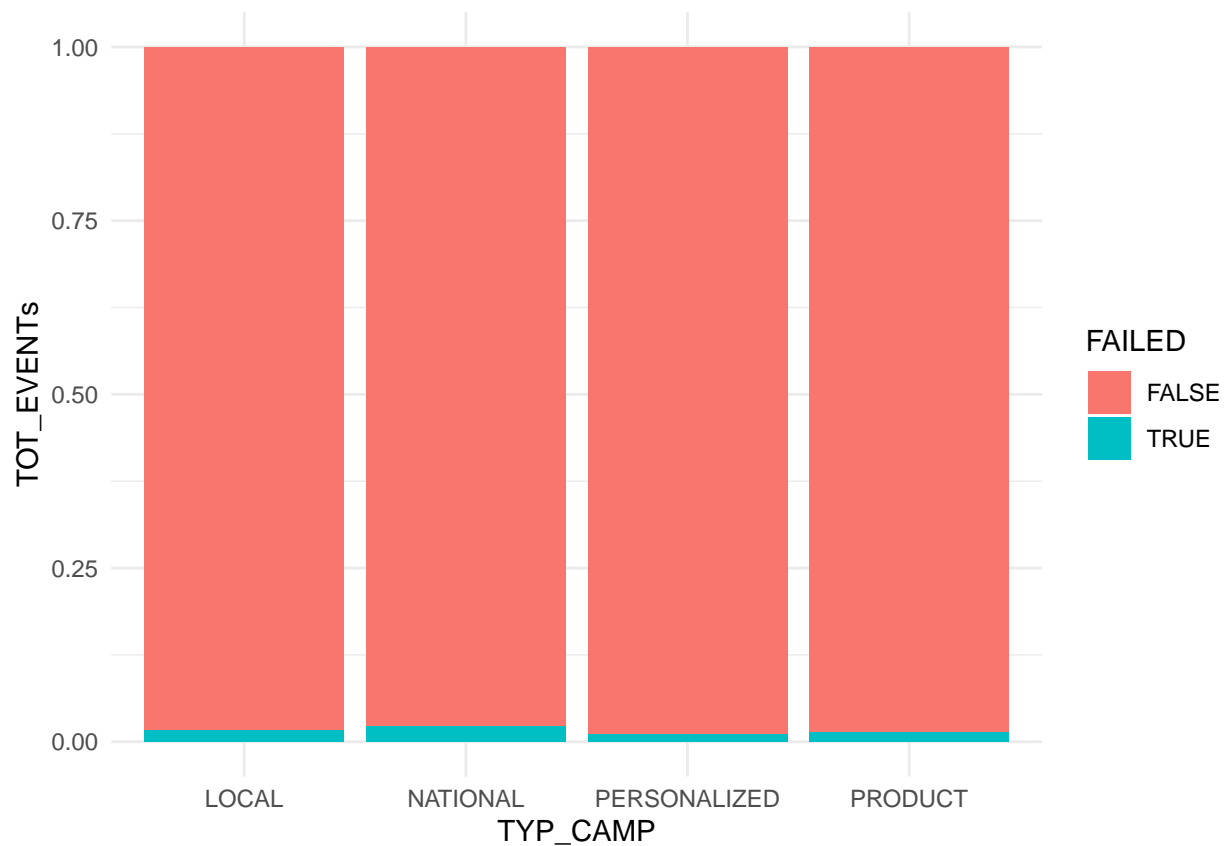


```
# - NUM_OPENs

# compute aggregate
df6_dist_num_opens <- df_6_camp_event_clean_final %>%
  filter(OPENED) %>%
  group_by(ID_CLI) %>%
  summarise(AVG_OPENs = floor(mean(NUM_OPENs))) %>%
  ungroup() %>%
  group_by(AVG_OPENs) %>%
  summarise(TOT_CLIs = n_distinct(ID_CLI))

df6_dist_num_opens
```

```
## # A tibble: 32 x 2
##    AVG_OPENs TOT_CLIs
##        <dbl>    <int>
## 1          1    73265
## 2          2     7075
```

```
##  3           3      1685
##  4           4       643
##  5           5       290
##  6           6       156
##  7           7       110
##  8           8        71
##  9           9        30
## 10          10        23
## # ... with 22 more rows
```

```r
## plot
plot_df6_dist_num_opens <- (
  ggplot(data=df6_dist_num_opens
         , aes(x=AVG_OPENs, y=TOT_CLIs)) +
    geom_bar(stat="identity", fill="steelblue") +
    theme_minimal()
)

plot_df6_dist_num_opens
```
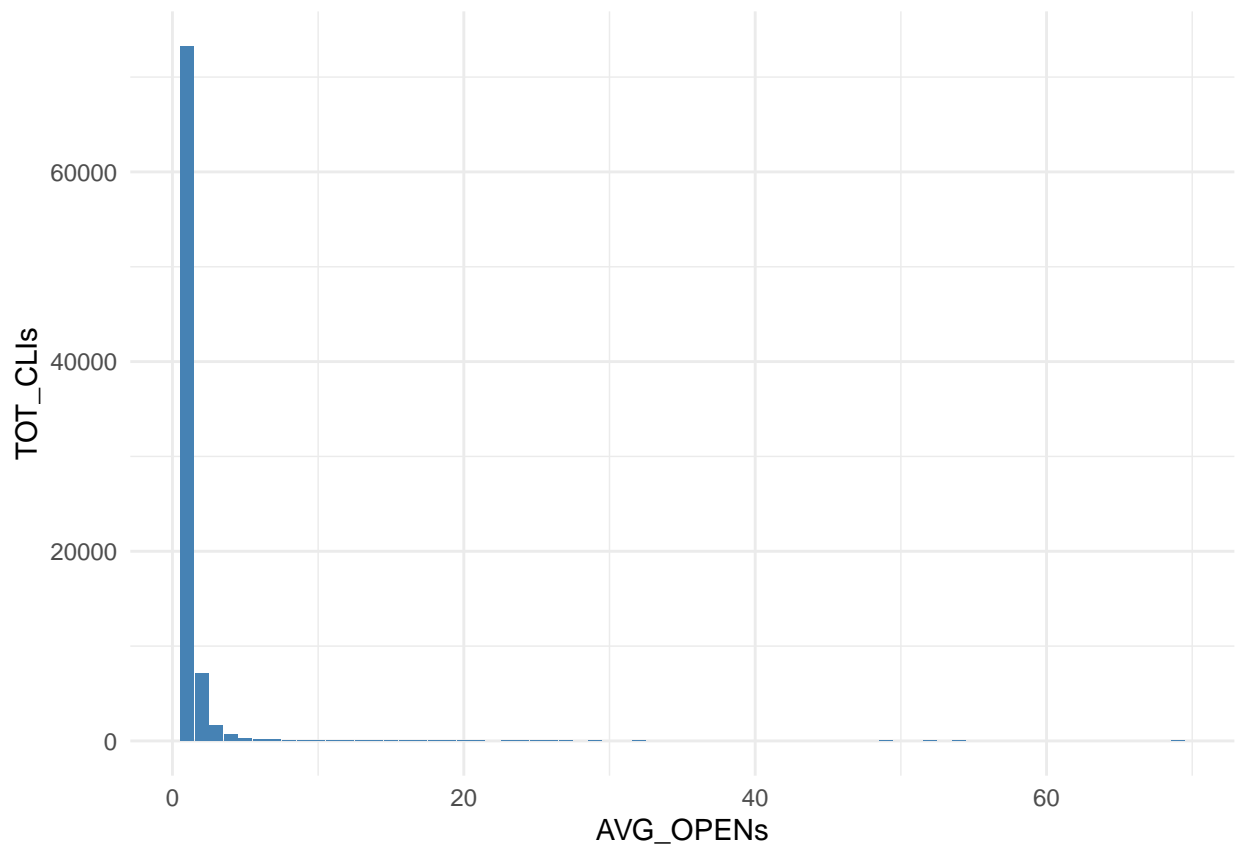


```r
# - NUM_CLICKs

# compute aggregate
df6_num_clicks <- df_6_camp_event_clean_final %>%
  filter(CLICKED) %>%
```

```
  group_by(ID_CLI) %>%
  summarise(AVG_CLICKs = floor(sum(NUM_CLICKs))) %>%
  ungroup()
df6_dist_num_clicks <- df6_num_clicks %>%
  group_by(AVG_CLICKs) %>%
  summarise(TOT_CLIs = n_distinct(ID_CLI))

df6_dist_num_clicks
```

```
## # A tibble: 35 x 2
##    AVG_CLICKs TOT_CLIs
##         <dbl>    <int>
## 1           1    12705
## 2           2     4523
## 3           3     2133
## 4           4     1170
## 5           5      674
## 6           6      400
## 7           7      289
## 8           8      177
## 9           9      110
## 10         10       86
## # ... with 25 more rows
```

```
## plot
plot_df6_dist_num_clicks <- (
  ggplot(data=df6_dist_num_clicks
         , aes(x=AVG_CLICKs, y=TOT_CLIs)) +
    geom_bar(stat="identity", fill="steelblue") +
    theme_minimal()
)

plot_df6_dist_num_opens
```
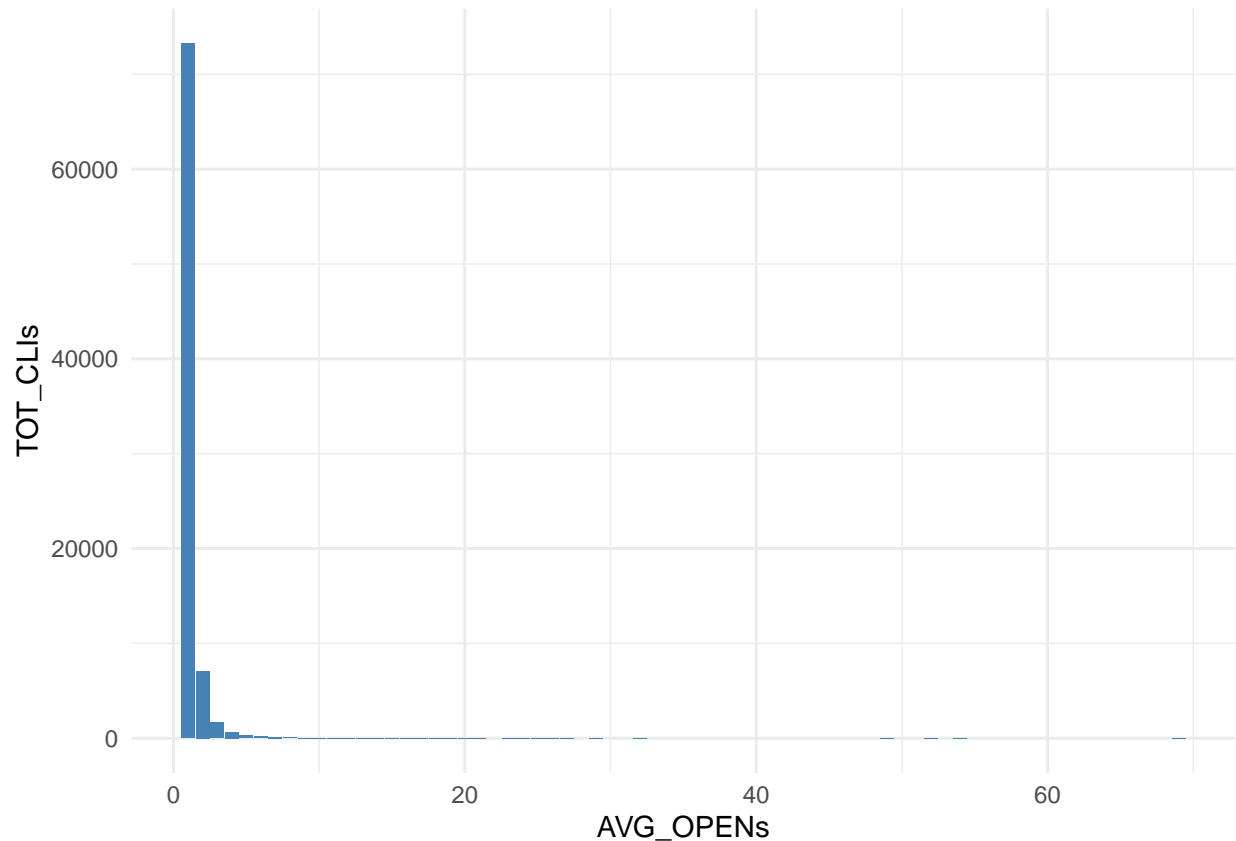
```r
str(df_6_camp_event_clean_final)
```

```
## 'data.frame':    1556646 obs. of  14 variables:
##  $ ID_EVENT_S  : int  11596999 11566080 11582299 11602861 11588065 11608037 11567230 11609502 1158739
##  $ ID_CLI      : int  553990 284487 339347 267826 108905 733825 149363 192004 281522 375829 ...
##  $ ID_CAMP     : int  959 957 958 960 959 960 957 960 959 959 ...
##  $ TYP_CAMP    : chr  "PRODUCT" "PRODUCT" "PRODUCT" "PRODUCT" ...
##  $ ID_DELIVERY : int  9282 9280 9281 9283 9282 9283 9280 9283 9282 9282 ...
##  $ SEND_DATE   : Date, format: "2019-01-03" "2019-01-03" ...
##  $ OPENED      : logi  FALSE FALSE FALSE TRUE FALSE TRUE ...
##  $ OPEN_DATE   : Date, format: NA NA ...
##  $ DAYS_TO_OPEN: int  NA NA NA 0 NA 0 1 NA NA NA ...
##  $ NUM_OPENs   : int  NA NA NA 6 NA 3 1 NA NA NA ...
##  $ CLICKED     : logi  FALSE FALSE FALSE TRUE FALSE TRUE ...
##  $ CLICK_DATE  : Date, format: NA NA ...
##  $ NUM_CLICKs  : int  NA NA NA 4 NA 1 NA NA NA NA ...
##  $ FAILED      : logi  FALSE FALSE TRUE FALSE FALSE FALSE ...
```

```r
summary(df_6_camp_event_clean_final)
```

```
##    ID_EVENT_S           ID_CLI            ID_CAMP        TYP_CAMP
##  Min.   :11556410   Min.   :      1   Min.   : 148.0   Length:1556646
##  1st Qu.:13533374   1st Qu.:203686    1st Qu.: 972.0   Class :character
```

```
##   Median :14738016   Median :386219   Median : 991.0   Mode  :character
##   Mean   :14710011   Mean   :404298   Mean   : 926.9
##   3rd Qu.:16262705   3rd Qu.:602601   3rd Qu.:1024.0
##   Max.   :17649382   Max.   :931973   Max.   :1048.0
##
##    ID_DELIVERY      SEND_DATE            OPENED         OPEN_DATE
##   Min.   : 9280   Min.   :2019-01-03   Mode :logical   Min.   :2019-01-03
##   1st Qu.:10220   1st Qu.:2019-02-13   FALSE:1278264   1st Qu.:2019-02-13
##   Median :10585   Median :2019-02-28   TRUE :278382    Median :2019-03-03
##   Mean   :10542   Mean   :2019-03-03                   Mean   :2019-03-05
##   3rd Qu.:11151   3rd Qu.:2019-04-04                   3rd Qu.:2019-04-04
##   Max.   :11509   Max.   :2019-04-30                   Max.   :2019-04-30
##                                                        NA's   :1278264
##    DAYS_TO_OPEN       NUM_OPENs        CLICKED        CLICK_DATE
##   Min.   : 0.0     Min.   : 1.0     Mode :logical   Min.   :2019-01-03
##   1st Qu.: 0.0     1st Qu.: 1.0     FALSE:1521462   1st Qu.:2019-01-31
##   Median : 0.0     Median : 1.0     TRUE :35184     Median :2019-03-03
##   Mean   : 1.5     Mean   : 1.4                     Mean   :2019-03-04
##   3rd Qu.: 1.0     3rd Qu.: 1.0                     3rd Qu.:2019-04-05
##   Max.   :59.0     Max.   :82.0                     Max.   :2019-04-30
##   NA's   :1278264  NA's   :1278264                  NA's   :1521462
##    NUM_CLICKs         FAILED
##   Min.   : 1.0     Mode :logical
##   1st Qu.: 1.0     FALSE:1528718
##   Median : 1.0     TRUE :27928
##   Mean   : 1.4
##   3rd Qu.: 1.0
##   Max.   :41.0
##   NA's   :1521462
```

FIRST LOOK of df_7

```r
str(df_7_tic)
```

```
## 'data.frame':    4263220 obs. of  9 variables:
##  $ ID_SCONTRINO : chr  "51299709701/05/18718488513770" "51299709701/05/18718488513770" "51399406901/0
##  $ ID_CLI       : int  318714 318714 324419 332611 325589 325589 56975 323722 323722 320632 ...
##  $ ID_NEG       : int  48 48 47 36 35 35 20 27 27 48 ...
##  $ ID_ARTICOLO  : int  34216854 34216854 36167733 32404540 35811412 35811741 36167733 34326222 343262
##  $ COD_REPARTO  : int  2 2 9 13 9 9 9 12 12 9 ...
##  $ DIREZIONE    : int  1 1 1 1 1 1 1 1 1 1 ...
##  $ IMPORTO_LORDO: num  22.8 22.8 1290 134 399 ...
##  $ SCONTO       : num  0.05 0 491 34.1 0 0 491 0 0 10.9 ...
##  $ DATETIME     : chr  "2018-05-01T071848" "2018-05-01T071848" "2018-05-01T071848" "2018-05-01T071848
```

```r
summary(df_7_tic)
```

```
##  ID_SCONTRINO          ID_CLI           ID_NEG         ID_ARTICOLO
##  Length:4263220     Min.   :     5   Min.   : 2.00   Min.   :   16921
##  Class :character   1st Qu.:211201   1st Qu.:14.00   1st Qu.:34141800
##  Mode  :character   Median :411821   Median :27.00   Median :35558446
##                     Mean   :411433   Mean   :25.93   Mean   :38022591
##                     3rd Qu.:601672   3rd Qu.:38.00   3rd Qu.:36144465
```

436

```
##                       Max.   :934729   Max.    :49.00   Max.     :82231481
##     COD_REPARTO        DIREZIONE       IMPORTO_LORDO         SCONTO
##   Min.   : 1.000   Min.    :-1.0000   Min.    :-17465.00   Min.    :-2472.000
##   1st Qu.: 3.000   1st Qu.: 1.0000   1st Qu.:      2.67   1st Qu.:     0.000
##   Median : 7.000   Median : 1.0000   Median :      7.50   Median :     0.000
##   Mean   : 7.393   Mean    : 0.8866   Mean    :     32.65   Mean    :     2.329
##   3rd Qu.:11.000   3rd Qu.: 1.0000   3rd Qu.:     22.00   3rd Qu.:     0.000
##   Max.   :14.000   Max.    : 1.0000   Max.    : 17465.00   Max.    : 4853.590
##      DATETIME
##   Length:4263220
##   Class :character
##   Mode  :character
##
##
##
```

```r
#### START CLEANING df_7 ####

tickets_clean <- df_7_tic

#### CLEANING DATA TYPES in df_7 ####

## formatting dates and times ##
tickets_clean <- tickets_clean %>%
  mutate(TIC_DATETIME = as.POSIXct(DATETIME,
                                   format = "%Y-%m-%dT%H%M%S")) %>% #-- Date Time
  mutate(TIC_HOUR = hour(TIC_DATETIME))                    %>% #-- In Hours
  mutate(TIC_DATE = as.Date(TIC_DATETIME))                 %>% #-- In Date
  select(-DATETIME)                                        %>% #-- Removed DATETIME
  mutate(DIREZIONE = as.factor(DIREZIONE))                 %>% #-- Factorization
  mutate(COD_REPARTO = as.factor(COD_REPARTO))                 #-- Factorization




#### CONSISTENCY CHECK ID_CLI in df_1/df_7 ####

cons_idcli_df1_df7 <- df_1_cli_fid_clean %>%
  select(ID_CLI) %>%
  distinct() %>%
  mutate(is_in_df_1 = 1) %>%
  distinct() %>%
  full_join(tickets_clean %>%
              select(ID_CLI) %>%
              distinct() %>%
              mutate(is_in_df_7 = 1) %>%
              distinct()
            , by = "ID_CLI"
  ) %>%
  group_by(is_in_df_1, is_in_df_7) %>%
  summarise(NUM_ID_CLIs = n_distinct(ID_CLI)) %>%
  as.data.frame()
```

```
cons_idcli_df1_df7
```

```
##   is_in_df_1 is_in_df_7 NUM_ID_CLIs
## 1          1          1      212124
## 2          1         NA      157348
```

```
#!!! NOTE: all ID_CLI in df_7 are mapped in df_1, but not all ID_CLI in df_1 are mapped in df_7 !!!#

#### RESHAPING df_7 ####

tickets_clean <- tickets_clean %>%
  ## adding day characterization ##
  mutate(TIC_DATE_WEEKDAY = wday(TIC_DATE)) %>%
  mutate(TIC_DATE_HOLIDAY = isHoliday("Italy", TIC_DATE)) %>%
  mutate(TIC_DATE_TYP = case_when(
    (TIC_DATE_WEEKDAY %in% c(6,7)) ~ "weekend"
    , (TIC_DATE_HOLIDAY == TRUE) ~ "holiday"
    , (TIC_DATE_WEEKDAY < 7) ~ "weekday"
    , TRUE ~ "other"
  )
  )

#### EXPLORE VARIABLES in df_7 ####

### GENERAL OVERVIEW ###

## compute aggregate
df7_overview <- tickets_clean %>%
  summarise(MIN_DATE = min(TIC_DATE)
            , MAX_DATE = max(TIC_DATE)
            , TOT_TICs = n_distinct(ID_SCONTRINO)
            , TOT_CLIs = n_distinct(ID_CLI))

df7_overview
```

```
##     MIN_DATE   MAX_DATE TOT_TICs TOT_CLIs
## 1 2018-05-01 2019-04-30   998035   212124
```

```
### Variable DIREZIONE ###

## compute aggregate
df7_dist_direction <- tickets_clean %>%
  group_by(DIREZIONE) %>%
  summarise(TOT_TICs = n_distinct(ID_SCONTRINO)
            , TOT_CLIs = n_distinct(ID_CLI)) %>%
  mutate(PERCENT_TICs = TOT_TICs/df7_overview$TOT_TICs
         , PERCENT_CLIs = TOT_CLIs/df7_overview$TOT_CLIs)

df7_dist_direction
```

```
## # A tibble: 2 x 5
##   DIREZIONE TOT_TICs TOT_CLIs PERCENT_TICs PERCENT_CLIs
```

```
##   <fct>          <int>     <int>        <dbl>         <dbl>
## 1 -1             90189     46622        0.0904        0.220
## 2 1              907846    212124       0.910         1
```

Variable TIC_HOURS

```r
## compute aggregate
df7_dist_hour <- tickets_clean %>%
  group_by(TIC_HOUR, DIREZIONE) %>%
  summarise(TOT_TICs = n_distinct(ID_SCONTRINO)
            , TOT_CLIs = n_distinct(ID_CLI)) %>%
  left_join(df7_dist_direction %>%
              select(DIREZIONE
                     , ALL_TOT_TICs = TOT_TICs
                     , ALL_TOT_CLIs = TOT_CLIs)
            , by = 'DIREZIONE'
  ) %>%
  mutate(PERCENT_TICs = TOT_TICs/ALL_TOT_TICs
         , PERCENT_CLIs = TOT_CLIs/ALL_TOT_CLIs) %>%
  select(-ALL_TOT_TICs, -ALL_TOT_CLIs)

df7_dist_hour
```

```
## # A tibble: 36 x 6
## # Groups:   TIC_HOUR [20]
##     TIC_HOUR DIREZIONE TOT_TICs TOT_CLIs PERCENT_TICs PERCENT_CLIs
##        <int> <fct>        <int>    <int>        <dbl>        <dbl>
## 1         3 1                2        2   0.00000220   0.00000943
## 2         4 1                4        4   0.00000441   0.0000189
## 3         5 1                2        2   0.00000220   0.00000943
## 4         6 1               32       32   0.0000352    0.000151
## 5         7 -1             759      638   0.00842      0.0137
## 6         7 1             9249     6309   0.0102       0.0297
## 7         8 -1            1767     1468   0.0196       0.0315
## 8         8 1            17678    11624   0.0195       0.0548
## 9         9 -1            5888     4681   0.0653       0.100
## 10        9 1            45619    29290   0.0502       0.138
## # ... with 26 more rows
```

```r
## plot aggregate
plot_df7_dist_hour <- (
  ggplot(data=df7_dist_hour
         , aes(fill=DIREZIONE, x=TIC_HOUR, y=TOT_TICs)) +
    geom_bar(stat="identity") +
    theme_minimal()
)

plot_df7_dist_hour
```
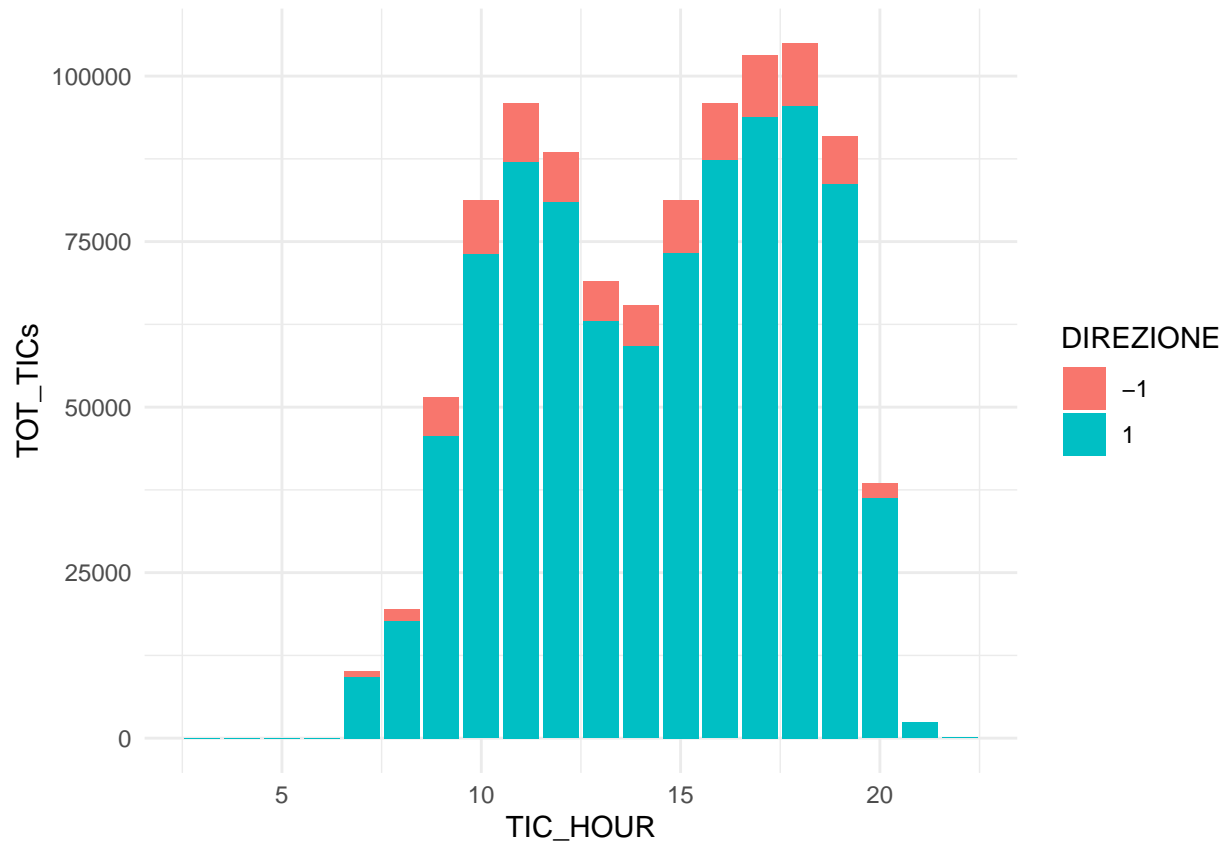
```
## plot aggregate percent
plot_df7_dist_hour_percent <- (
  ggplot(data=df7_dist_hour
         , aes(fill=DIREZIONE, x=TIC_HOUR, y=TOT_TICs)) +
    geom_bar(stat="identity", position="fill" ) +
    theme_minimal()
)

plot_df7_dist_hour_percent
```
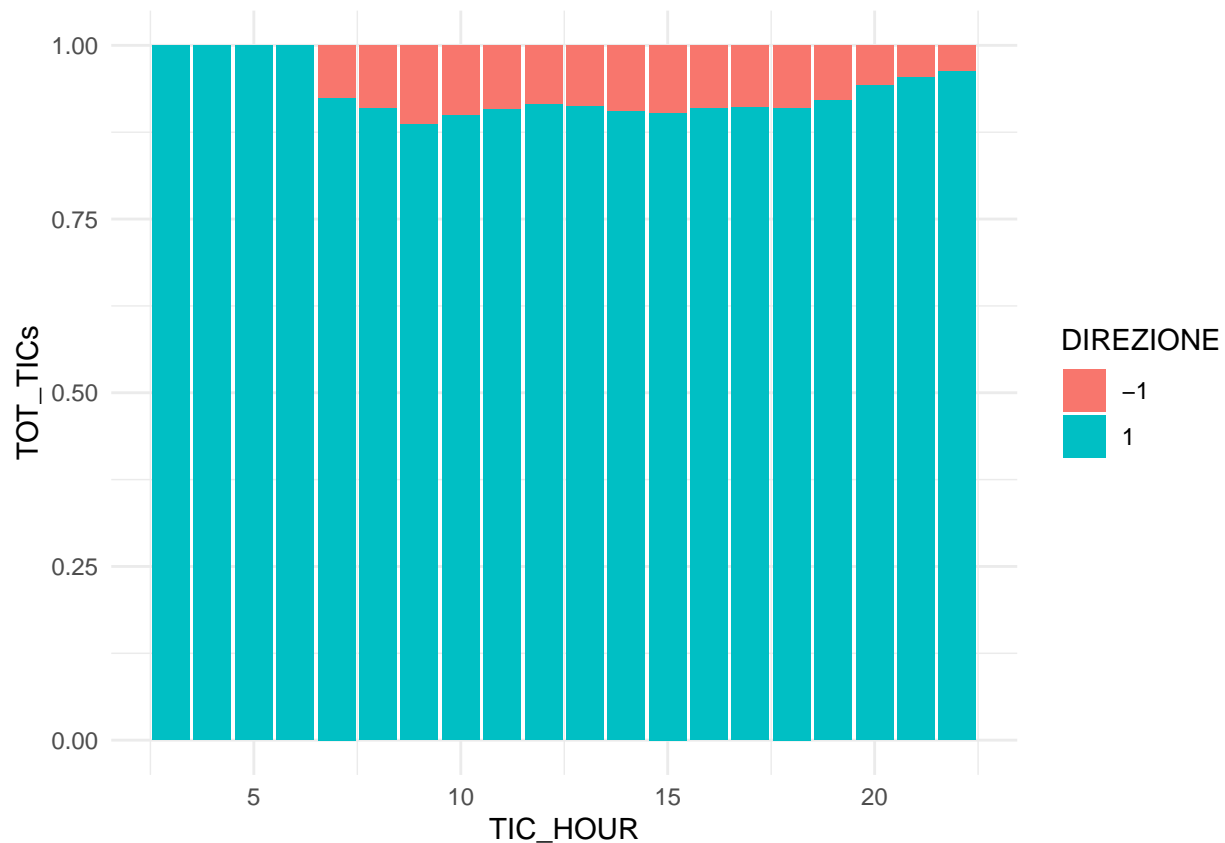
```
### Variable COD_REPARTO ###

## compute aggregate
df7_dist_dep <- tickets_clean %>%
  group_by(COD_REPARTO, DIREZIONE) %>%
  summarise(TOT_TICs = n_distinct(ID_SCONTRINO)
            , TOT_CLIs = n_distinct(ID_CLI)) %>%
  left_join(df7_dist_direction %>%
              select(DIREZIONE
                     , ALL_TOT_TICs = TOT_TICs
                     , ALL_TOT_CLIs = TOT_CLIs)
            , by = 'DIREZIONE'
  ) %>%
  mutate(PERCENT_TICs = TOT_TICs/ALL_TOT_TICs
         , PERCENT_CLIs = TOT_CLIs/ALL_TOT_CLIs) %>%
  select(-ALL_TOT_TICs, -ALL_TOT_CLIs)

df7_dist_dep
```

```
## # A tibble: 28 x 6
## # Groups:   COD_REPARTO [14]
##    COD_REPARTO DIREZIONE TOT_TICs TOT_CLIs PERCENT_TICs PERCENT_CLIs
##    <fct>       <fct>        <int>    <int>        <dbl>        <dbl>
## 1 1           -1            2512     1928       0.0279       0.0414
## 2 1           1            65151    30531       0.0718       0.144
## 3 2           -1            5604     4598       0.0621       0.0986
```

```
## 4 2            1      94618   54055    0.104     0.255
## 5 3           -1      17083   10835    0.189     0.232
## 6 3            1     229972   93224    0.253     0.439
## 7 4           -1       3139    2761    0.0348    0.0592
## 8 4            1     144544   73069    0.159     0.344
## 9 5           -1       2374    2035    0.0263    0.0436
## 10 5           1      41220   29916    0.0454    0.141
## # ... with 18 more rows
```

```r
## plot aggregate
plot_df7_dist_dep <- (
  ggplot(data=df7_dist_dep
         , aes(fill=DIREZIONE, x=COD_REPARTO, y=TOT_TICs)) +
    geom_bar(stat="identity") +
    theme_minimal()
)


plot_df7_dist_dep
```
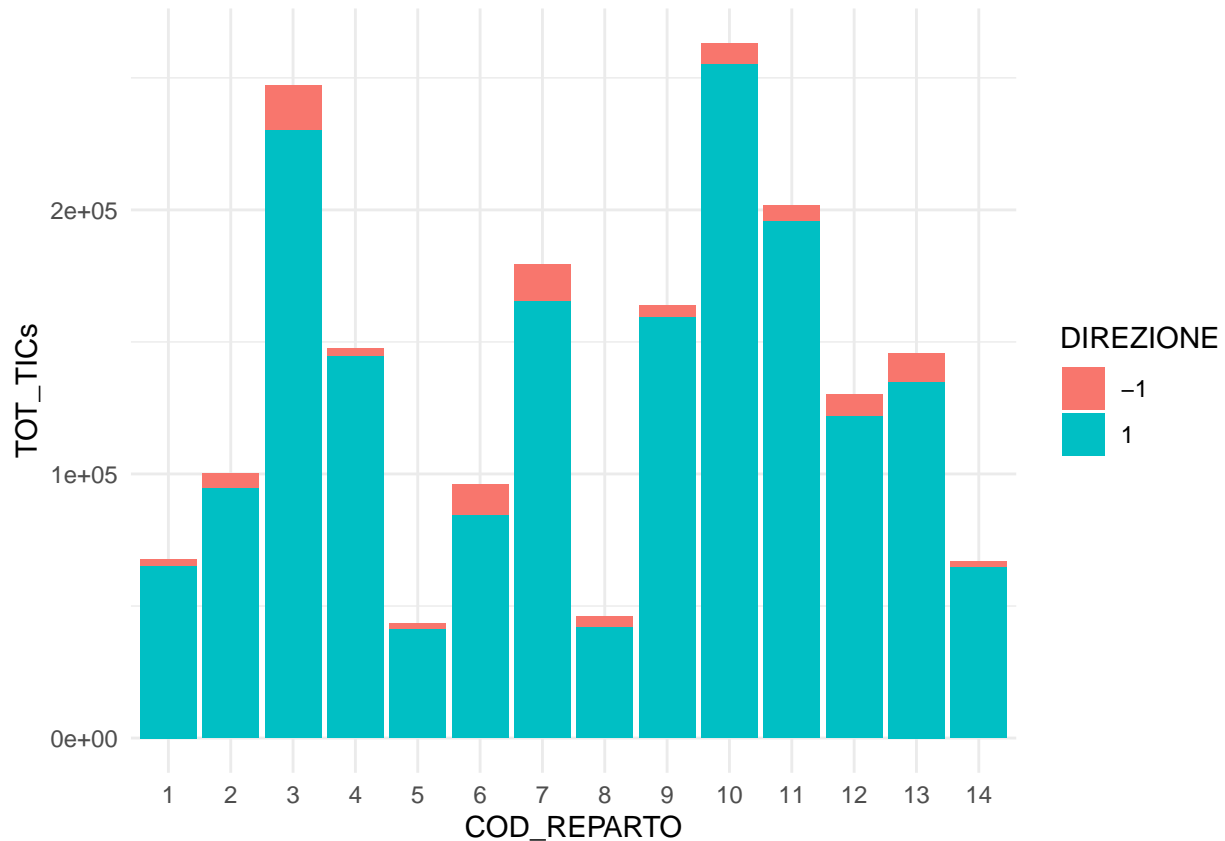


```r
## plot aggregate percent
plot_df7_dist_dep_percent <- (
  ggplot(data=df7_dist_dep
         , aes(fill=DIREZIONE, x=COD_REPARTO, y=TOT_TICs)) +
    geom_bar(stat="identity", position="fill" ) +
    theme_minimal()
```

```
)

plot_df7_dist_dep_percent
```
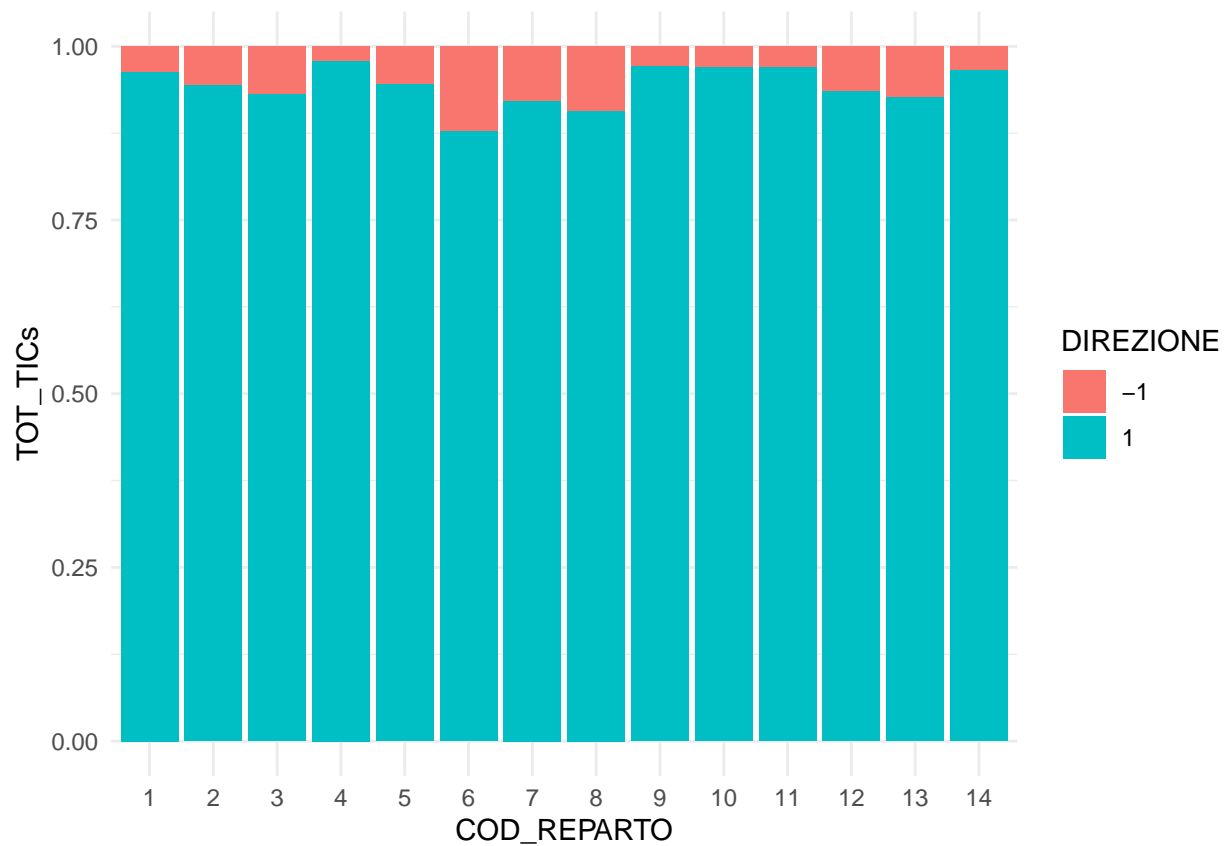


```
### Variable TIC_DATE_TYP ###

## compute aggregate
df7_dist_datetyp <- tickets_clean %>%
  group_by(TIC_DATE_TYP, DIREZIONE) %>%
  summarise(TOT_TICs = n_distinct(ID_SCONTRINO)
            , TOT_CLIs = n_distinct(ID_CLI)) %>%
  left_join(df7_dist_direction %>%
              select(DIREZIONE
                     , ALL_TOT_TICs = TOT_TICs
                     , ALL_TOT_CLIs = TOT_CLIs)
            , by = 'DIREZIONE'
  ) %>%
  mutate(PERCENT_TICs = TOT_TICs/ALL_TOT_TICs
         , PERCENT_CLIs = TOT_CLIs/ALL_TOT_CLIs) %>%
  select(-ALL_TOT_TICs, -ALL_TOT_CLIs)

df7_dist_datetyp


## # A tibble: 6 x 6
## # Groups:   TIC_DATE_TYP [3]
```

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```
##    TIC_DATE_TYP DIREZIONE TOT_TICs TOT_CLIs PERCENT_TICs PERCENT_CLIs
##    <chr>        <fct>        <int>    <int>        <dbl>        <dbl>
## 1 holiday       -1           14522    10759        0.161        0.231
## 2 holiday        1          157868    81742        0.174        0.385
## 3 weekday       -1           47294    28981        0.524        0.622
## 4 weekday        1          452679   153338        0.499        0.723
## 5 weekend       -1           28373    19565        0.315        0.420
## 6 weekend        1          297299   125137        0.327        0.590
```

```r
## plot aggregate
plot_df7_dist_datetyp <- (
  ggplot(data=df7_dist_datetyp
         , aes(fill=DIREZIONE, x=TIC_DATE_TYP, y=TOT_TICs)) +
    geom_bar(stat="identity") +
    theme_minimal()
)

plot_df7_dist_datetyp
```
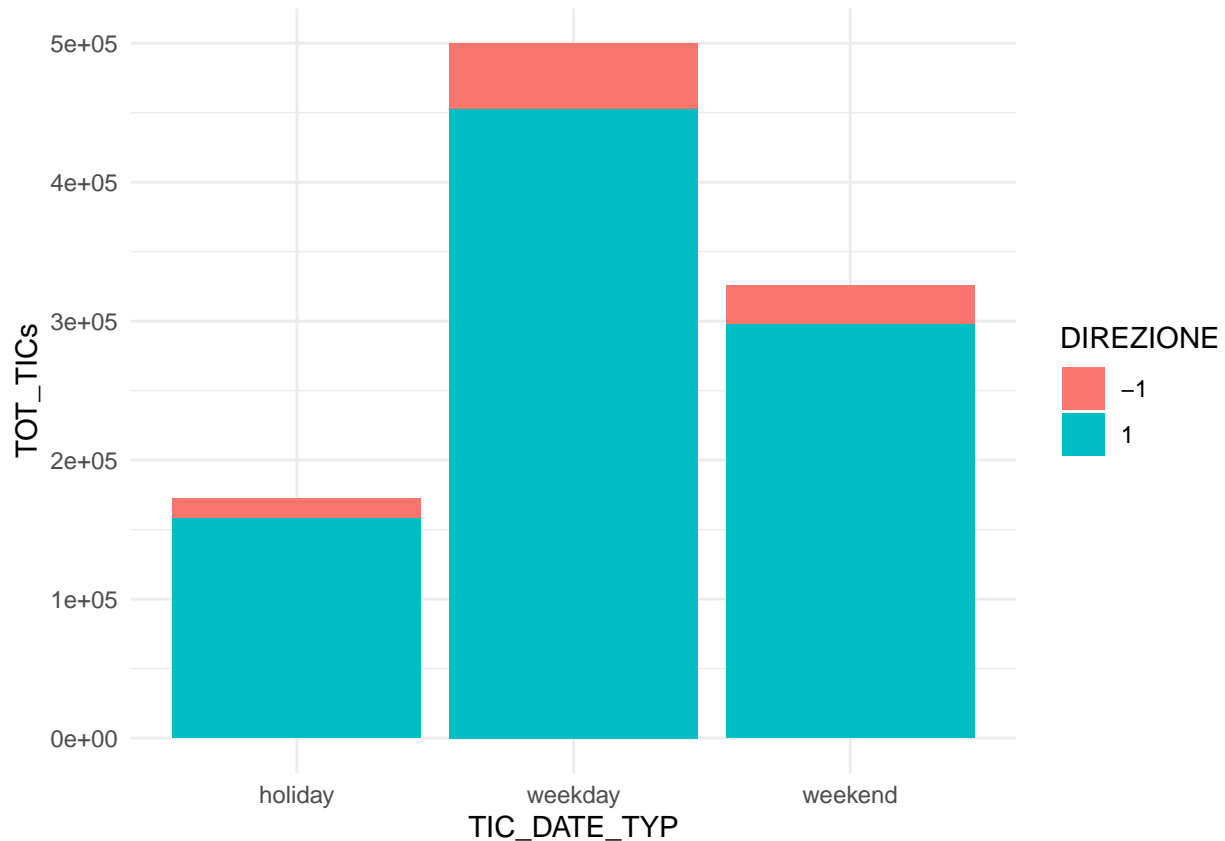


```r
## plot aggregate percent
plot_df7_dist_datetyp_percent <- (
  ggplot(data=df7_dist_datetyp
         , aes(fill=DIREZIONE, x=TIC_DATE_TYP, y=TOT_TICs)) +
    geom_bar(stat="identity", position="fill" ) +
    theme_minimal()
```

```
)
```

```
plot_df7_dist_datetyp_percent
```
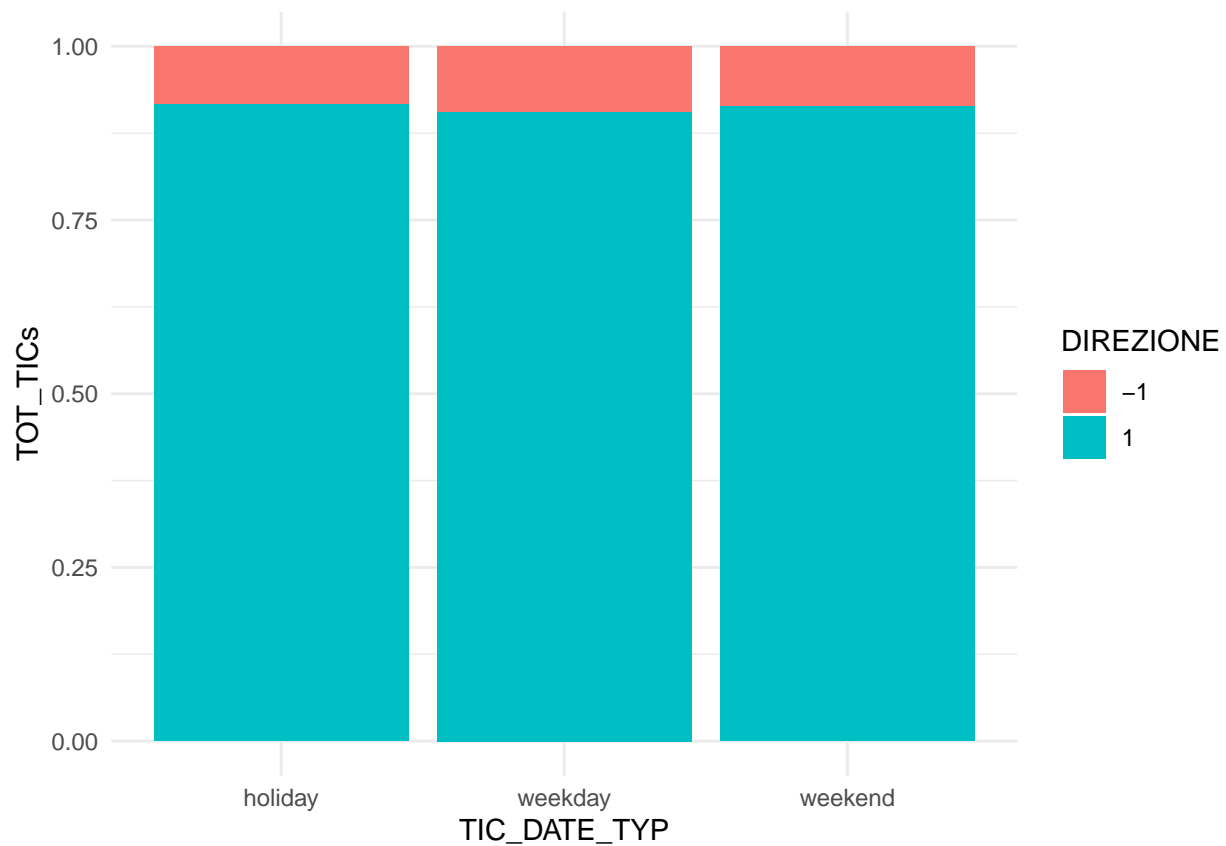


```
### Variable average IMPORTO_LORDO and average SCONTO per TICKET ###

## compute aggregate
df7_dist_importosconto <- tickets_clean %>%
  group_by(ID_SCONTRINO, DIREZIONE) %>%
  summarise(IMPORTO_LORDO = sum(IMPORTO_LORDO)
            , SCONTO = sum(SCONTO)) %>%
  ungroup() %>%
  as.data.frame()

df7_dist_avgimportosconto <- df7_dist_importosconto %>%
  group_by(DIREZIONE) %>%
  summarise(AVG_IMPORTO_LORDO = mean(IMPORTO_LORDO)
            , AVG_SCONTO = mean(SCONTO))

df7_dist_avgimportosconto
```

```
## # A tibble: 2 x 3
##   DIREZIONE AVG_IMPORTO_LORDO AVG_SCONTO
##   <fct>                 <dbl>      <dbl>
## 1 -1                    -110.      -8.29
```

```
## 2 1                              164.        11.8
```

```
## plot aggregate
plot_df7_dist_importo <- (
  ggplot(data=df7_dist_importosconto %>%
          filter((IMPORTO_LORDO > -1000) & (IMPORTO_LORDO < 1000))
        , aes(color=DIREZIONE, x=IMPORTO_LORDO)) +
    geom_histogram(binwidth=10, fill="white", alpha=0.5) +
    theme_minimal()
)

plot_df7_dist_importo
```
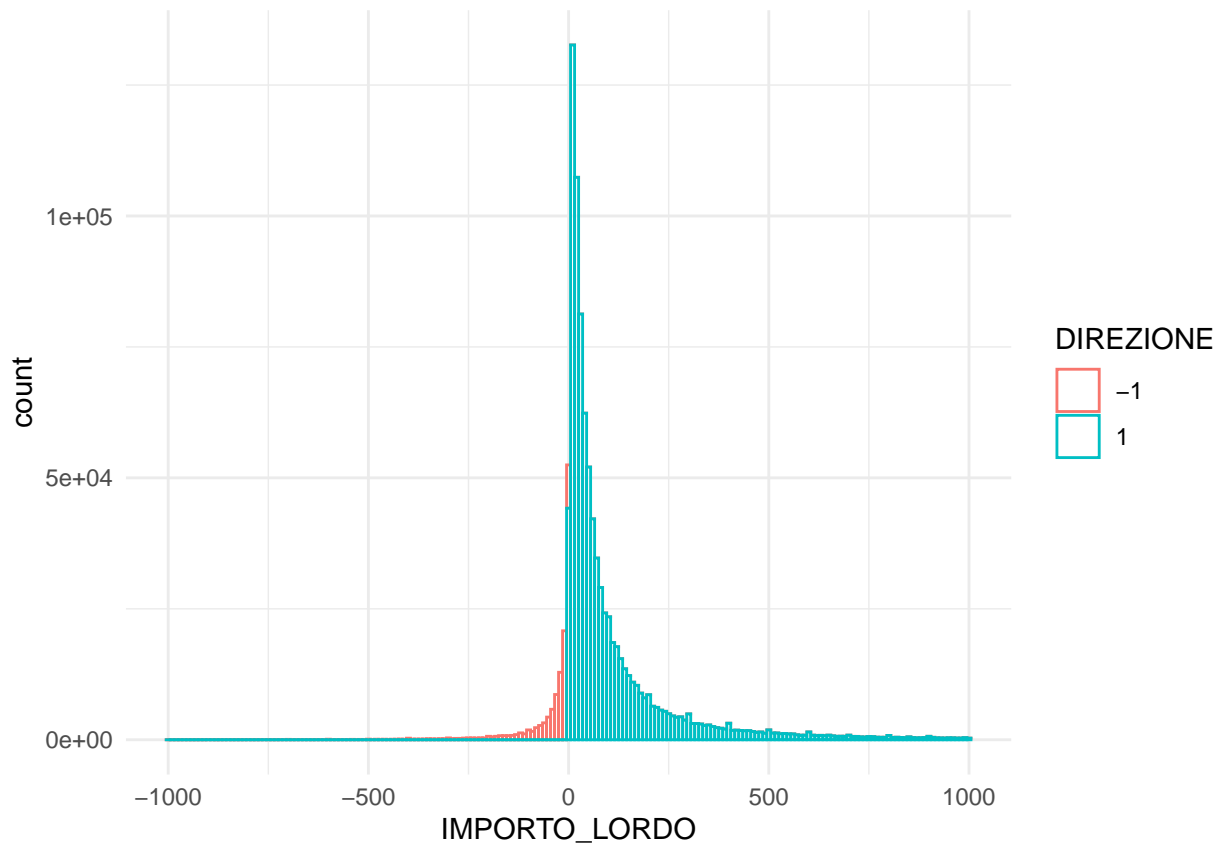


```
## plot aggregate
plot_df7_dist_sconto <- (
  ggplot(data=df7_dist_importosconto %>%
          filter((SCONTO > -250) & (IMPORTO_LORDO < 250))
        , aes(color=DIREZIONE, x=SCONTO)) +
    geom_histogram(binwidth=10, fill="white", alpha=0.5) +
    theme_minimal()
)

plot_df7_dist_sconto
```
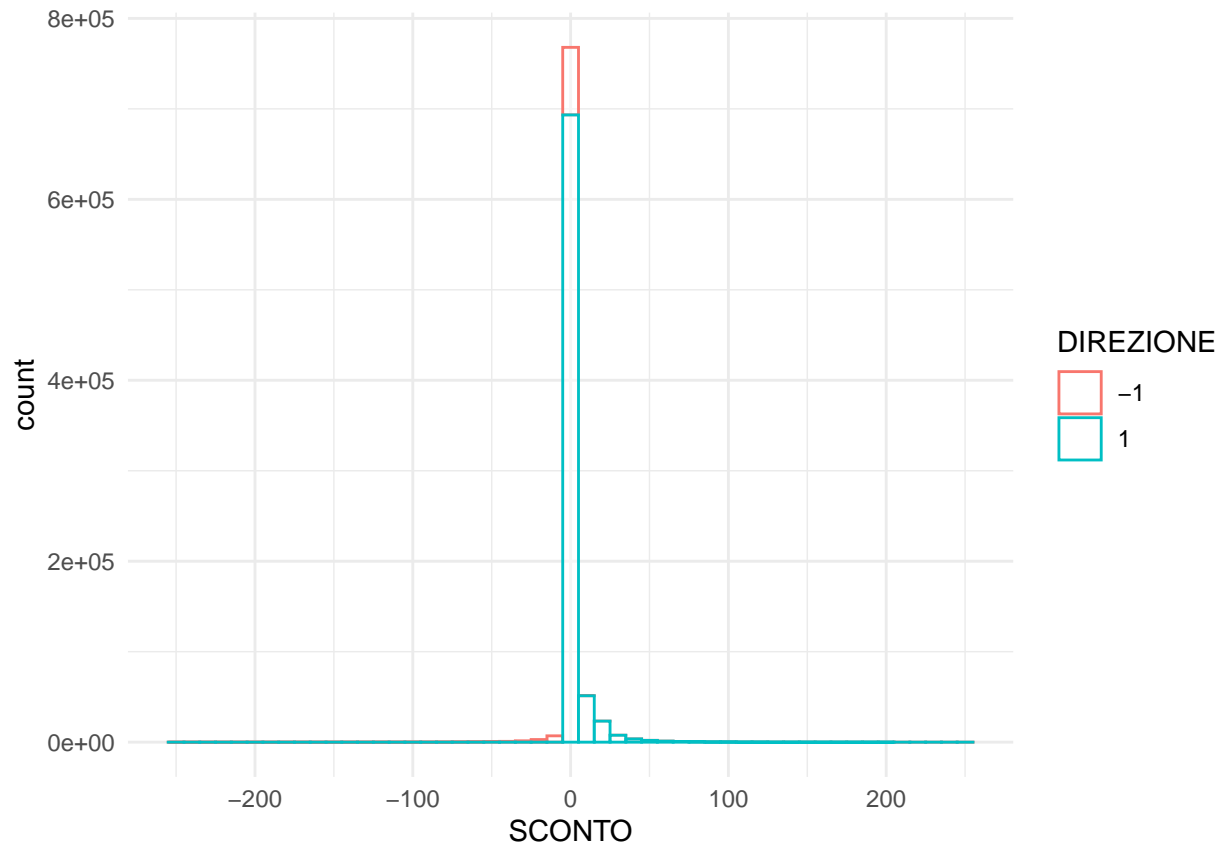
```
#### TO DO df_7 ####
# EXPLORE average IMPORTO_LORDO and average SCONTO by COD_REPARTO

## compute aggregate
df7_dist_importosconto_reparto <-tickets_clean %>%
  group_by(COD_REPARTO, DIREZIONE) %>%
  summarise(IMPORTO_LORDO = sum(IMPORTO_LORDO)
            , SCONTO = sum(SCONTO)) %>%
  ungroup() %>%
  as.data.frame()

df7_dist_avgimportosconto_reparto <- df7_dist_importosconto_reparto %>%
  group_by(DIREZIONE) %>%
  summarise(AVG_IMPORTO_LORDO = mean(IMPORTO_LORDO)
            , AVG_SCONTO = mean(SCONTO))

df7_dist_avgimportosconto_reparto
```

```
## # A tibble: 2 x 3
##   DIREZIONE AVG_IMPORTO_LORDO AVG_SCONTO
##   <fct>                 <dbl>      <dbl>
## 1 -1                 -706252.    -53409.
## 2 1                 10649178.    762487.
```

```
#_____
## plot aggregate
plot_df7_dist_importo_reparto <- (
  ggplot(data=df7_dist_importosconto_reparto %>%
          filter()
         , aes(color=DIREZIONE, x=IMPORTO_LORDO)) +
    geom_histogram(fill="white", alpha=0.5) +
    theme_minimal()
)

plot_df7_dist_importo_reparto
```
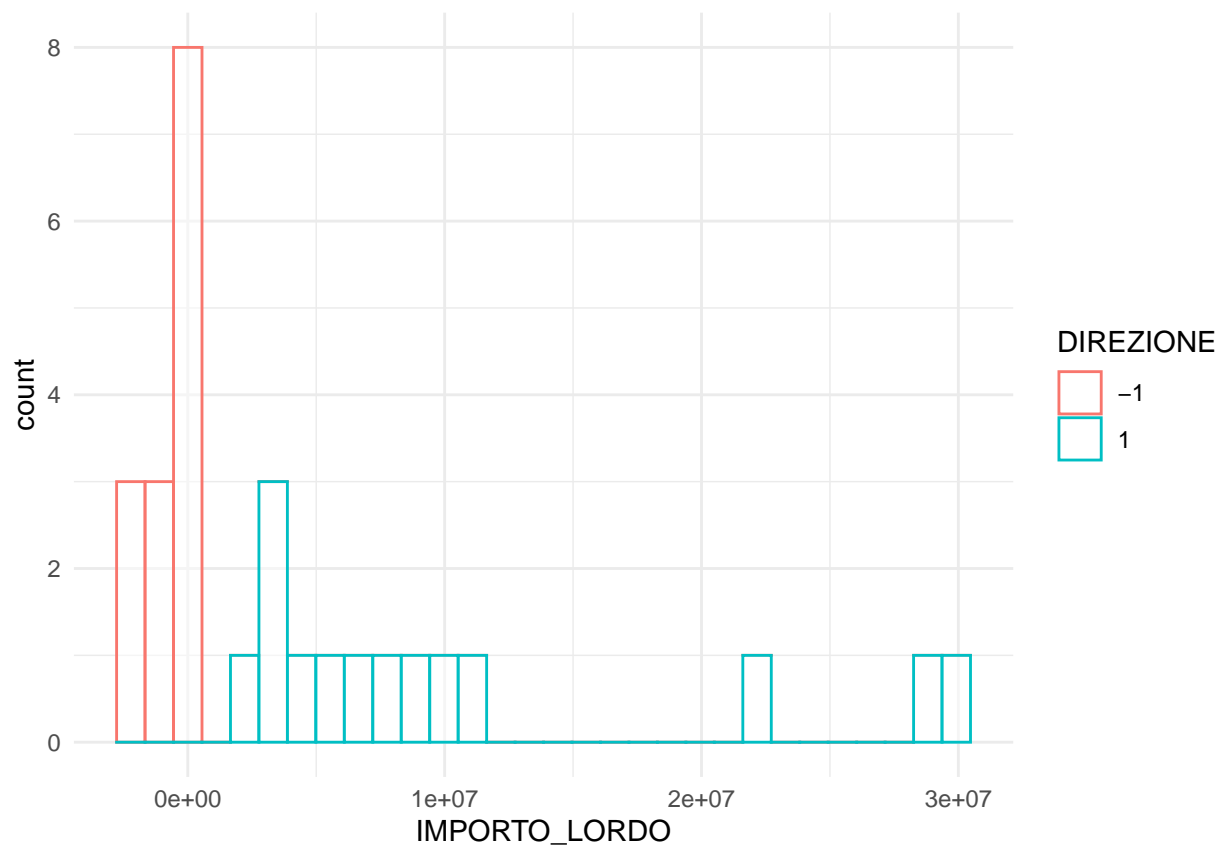


```
## plot aggregate
plot_df7_dist_sconto_reparto <- (
  ggplot(data=df7_dist_importosconto_reparto %>%
          filter()
         , aes(color=DIREZIONE, x=SCONTO)) +
    geom_histogram(fill="white", alpha=0.5) +
    theme_minimal()
)

plot_df7_dist_sconto_reparto
```
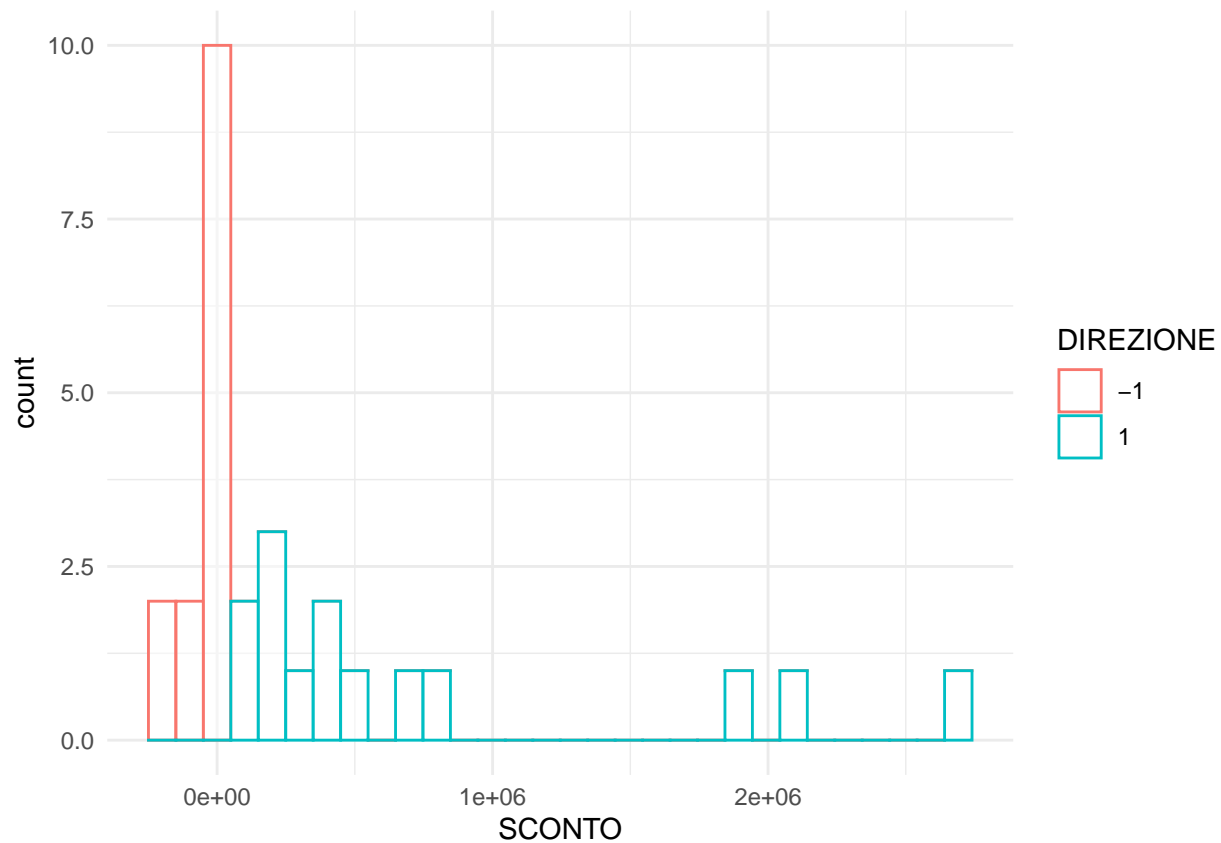
```
#_____

# EXPLORE ID_ARTICOLO DISTRIBUTIONS (i.e. num TICs by ID_ARTICOLO)

# number of tics per articolo
df7_dist_tics_articolo <-tickets_clean %>%
  group_by(ID_ARTICOLO) %>%
  summarise(NUM_TICs = sum(n_distinct(ID_SCONTRINO))) %>%
  ungroup()

df7_dist_tics_articolo
```

```
## # A tibble: 96,347 x 2
##    ID_ARTICOLO NUM_TICs
##          <int>    <int>
## 1        16921        5
## 2        16923       10
## 3        18278       30
## 4        18280       12
## 5        18296        8
## 6        44821        1
## 7        67396       66
## 8        92260       14
## 9       297003       28
## 10      297262       18
## # ... with 96,337 more rows
```

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```
plot_df7_dist_tics_articolo <- (
  ggplot(data=df7_dist_tics_articolo %>%
           filter()
         , aes(color=ID_ARTICOLO, x=NUM_TICs)) +
    geom_histogram(fill="white", alpha=0.5) +
    theme_minimal()
)

plot_df7_dist_tics_articolo
```
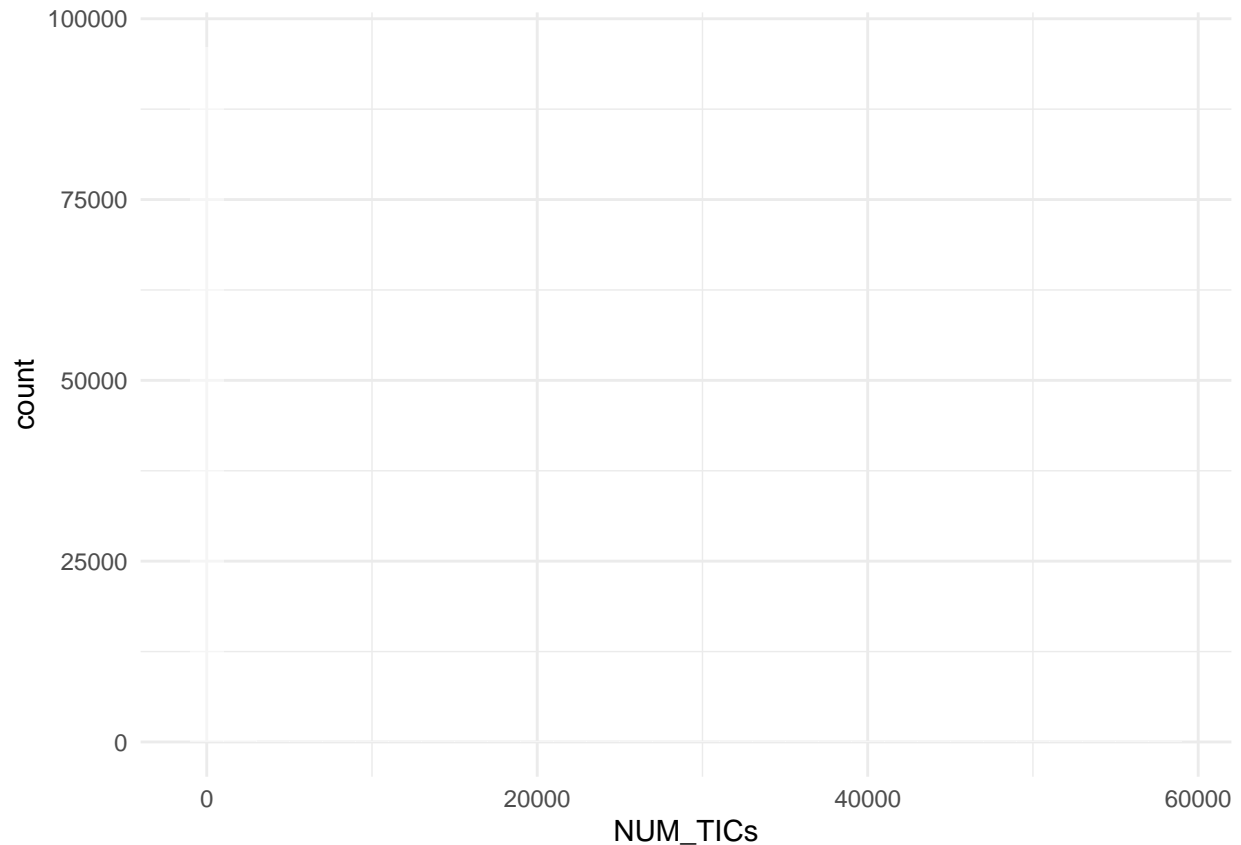


```
# EXPLORE average IMPORTO_LORDO and average SCONTO per ID_CLI

## compute aggregate
df7_dist_importosconto_cli <- tickets_clean %>%
  group_by(ID_CLI, DIREZIONE) %>%
  summarise(IMPORTO_LORDO = sum(IMPORTO_LORDO)
            , SCONTO = sum(SCONTO)) %>%
  ungroup() %>%
  as.data.frame()

df7_dist_avgimportosconto_cli <- df7_dist_importosconto_cli %>%
  group_by(DIREZIONE) %>%
  summarise(AVG_IMPORTO_LORDO = mean(IMPORTO_LORDO)
            , AVG_SCONTO = mean(SCONTO))
```

```
df7_dist_avgimportosconto_cli
```

```
## # A tibble: 2 x 3
##   DIREZIONE AVG_IMPORTO_LORDO AVG_SCONTO
##   <fct>                 <dbl>      <dbl>
## 1 -1                    -212.      -16.0
## 2 1                      703.       50.3
```

```
#_____
## plot aggregate
plot_df7_dist_importo_cli <- (
  ggplot(data=df7_dist_importosconto_cli %>%
          filter()
        , aes(color=DIREZIONE, x=IMPORTO_LORDO)) +
    geom_histogram(fill="white", alpha=0.5) +
    theme_minimal()
)

plot_df7_dist_importo_cli
```
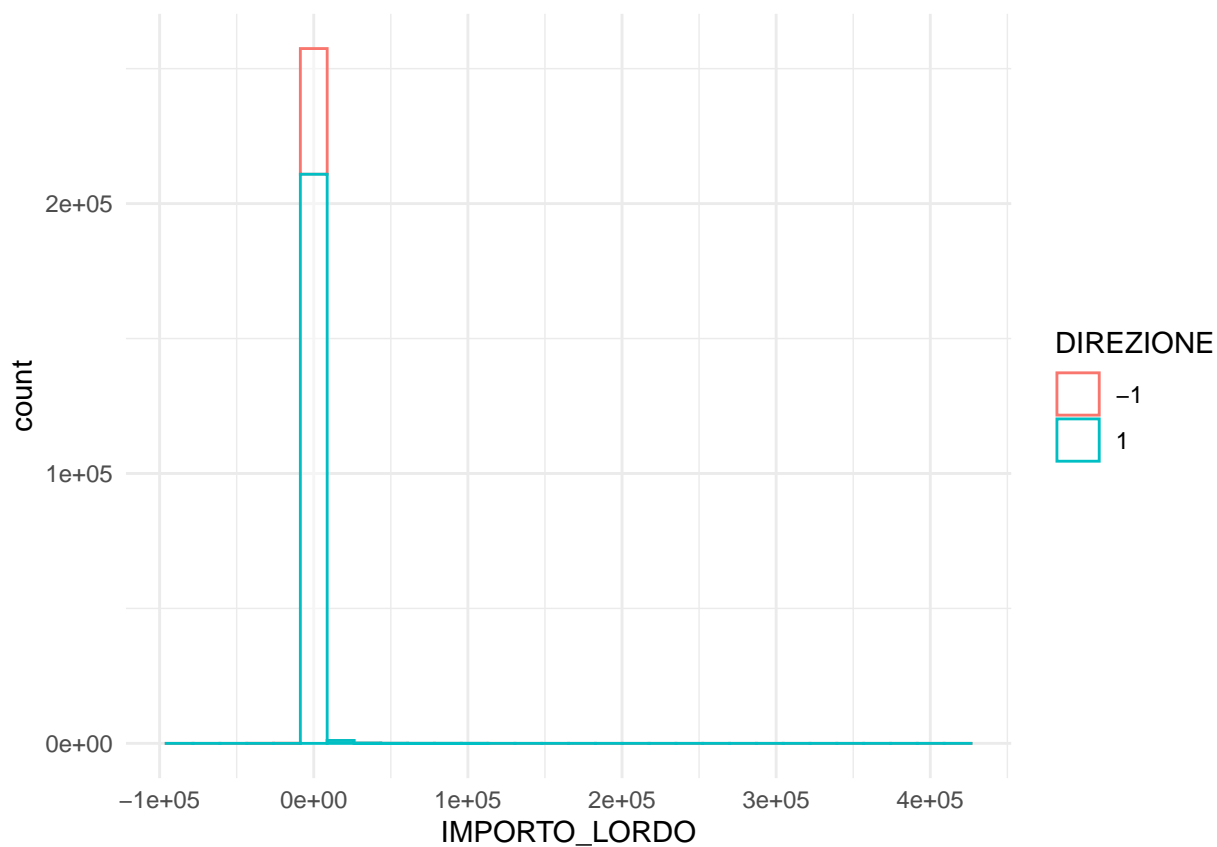


```
## plot aggregate
plot_df7_dist_sconto_cli <- (
  ggplot(data=df7_dist_importosconto_cli %>%
          filter()
```

```
        , aes(color=DIREZIONE, x=SCONTO)) +
    geom_histogram(fill="white", alpha=0.5) +
    theme_minimal()
)

plot_df7_dist_sconto_cli
```
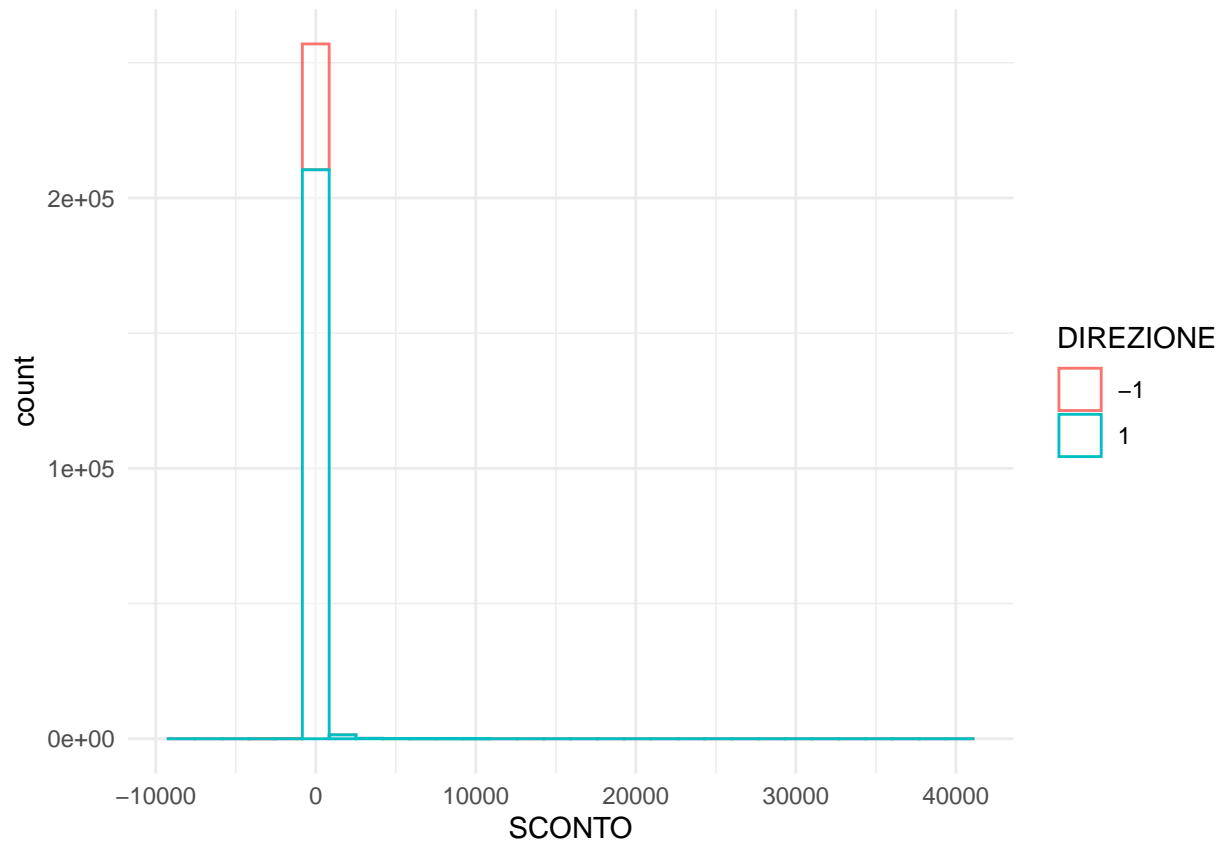


```
#_____

# compute the distribution of customers by number of purchases (as described in the slides)

df7_dist_total_purch <-tickets_clean %>%
  filter(DIREZIONE == 1)                              %>%
  group_by(ID_CLI)                                    %>%
  summarise(TOT_PURCHASE = n_distinct(ID_SCONTRINO)) %>%
  arrange(desc(TOT_PURCHASE))

df7_dist_total_purch
```

```
## # A tibble: 212,124 x 2
##      ID_CLI TOT_PURCHASE
##       <int>        <int>
##   1 376925          177
##   2 117212          155
```

```
##  3 248975          154
##  4 341579          149
##  5  99384          147
##  6 362177          146
##  7 150014          136
##  8 162298          133
##  9 187412          132
## 10 140765          131
## # ... with 212,114 more rows
```

```
# compute the days for next purchase curve (as described in the slides)
#TROPPO TEMPO A RUNNARE

#data_for_next_purchase <- tickets_clean %>%
 # filter(DIREZIONE == 1) %>% #-- Only Purchases
  #select(ID_CLI,
   #       ID_ARTICOLO,
    #      TIC_DATE,
    #      DIREZIONE)      %>% #-- Variable Selection
  #arrange(ID_CLI)
#data_for_next_purchase

#df_np <- data_for_next_purchase %>%
 # group_by(ID_CLI) %>%
  #mutate(Diff = TIC_DATE - lag(TIC_DATE))

#data_for_next_purchase



#df_days_curve <- as.data.frame(table(df_date_diff$Days_difference))
#colnames(df_days_curve) <- c("Days_diff","Freq")
#df_days_curve <- df_days_curve[-1, ]
#df_days_curve$Perc <- df_days_curve$Freq/sum(df_days_curve$Freq)

#df_days_curve



#### FINAL REVIEW df_7_clean ####

str(tickets_clean)
```

```
## 'data.frame':    4263220 obs. of  14 variables:
##  $ ID_SCONTRINO   : chr  "51299709701/05/18718488513770" "51299709701/05/18718488513770" "5139940690
##  $ ID_CLI         : int  318714 318714 324419 332611 325589 325589 56975 323722 323722 320632 ...
##  $ ID_NEG         : int  48 48 47 36 35 35 20 27 27 48 ...
##  $ ID_ARTICOLO    : int  34216854 34216854 36167733 32404540 35811412 35811741 36167733 34326222 343
##  $ COD_REPARTO    : Factor w/ 14 levels "1","2","3","4",..: 2 2 9 13 9 9 9 12 12 9 ...
##  $ DIREZIONE      : Factor w/ 2 levels "-1","1": 2 2 2 2 2 2 2 2 2 2 ...
##  $ IMPORTO_LORDO  : num  22.8 22.8 1290 134 399 ...
##  $ SCONTO         : num  0.05 0 491 34.1 0 0 491 0 0 10.9 ...
##  $ TIC_DATETIME   : POSIXct, format: "2018-05-01 07:18:48" "2018-05-01 07:18:48" ...
##  $ TIC_HOUR       : int  7 7 7 7 7 7 7 7 7 7 ...
##  $ TIC_DATE       : Date, format: "2018-05-01" "2018-05-01" ...
##  $ TIC_DATE_WEEKDAY: num  3 3 3 3 3 3 3 3 3 3 ...
```

```
## $ TIC_DATE_HOLIDAY: logi  TRUE TRUE TRUE TRUE TRUE TRUE ...
## $ TIC_DATE_TYP    : chr  "holiday" "holiday" "holiday" "holiday" ...
```

```r
summary(tickets_clean)
```

```
##   ID_SCONTRINO          ID_CLI           ID_NEG          ID_ARTICOLO
##  Length:4263220     Min.   :     5   Min.   : 2.00   Min.   :   16921
##  Class :character   1st Qu.:211201   1st Qu.:14.00   1st Qu.:34141800
##  Mode  :character   Median :411821   Median :27.00   Median :35558446
##                     Mean   :411433   Mean   :25.93   Mean   :38022591
##                     3rd Qu.:601672   3rd Qu.:38.00   3rd Qu.:36144465
##                     Max.   :934729   Max.   :49.00   Max.   :82231481
##
##   COD_REPARTO      DIREZIONE    IMPORTO_LORDO        SCONTO
##  3      : 870478   -1: 241788   Min.   :-17465.00   Min.   :-2472.000
##  10     : 497667   1 :4021432   1st Qu.:     2.67   1st Qu.:    0.000
##  11     : 440747                Median :     7.50   Median :    0.000
##  7      : 427446                Mean   :    32.65   Mean   :    2.329
##  9      : 357451                3rd Qu.:    22.00   3rd Qu.:    0.000
##  13     : 295028                Max.   : 17465.00   Max.   : 4853.590
##  (Other):1374403
##   TIC_DATETIME                      TIC_HOUR          TIC_DATE
##  Min.   :2018-05-01 07:18:48   Min.   : 3.00   Min.   :2018-05-01
##  1st Qu.:2018-08-12 14:05:04   1st Qu.:11.00   1st Qu.:2018-08-12
##  Median :2018-11-09 16:37:45   Median :15.00   Median :2018-11-09
##  Mean   :2018-11-06 03:19:32   Mean   :14.42   Mean   :2018-11-05
##  3rd Qu.:2019-02-02 12:49:36   3rd Qu.:17.00   3rd Qu.:2019-02-02
##  Max.   :2019-04-30 21:57:25   Max.   :22.00   Max.   :2019-04-30
##
##  TIC_DATE_WEEKDAY TIC_DATE_HOLIDAY TIC_DATE_TYP
##  Min.   :1.000    Mode :logical    Length:4263220
##  1st Qu.:2.000    FALSE:2656938    Class :character
##  Median :4.000    TRUE :1606282    Mode  :character
##  Mean   :4.096
##  3rd Qu.:6.000
##  Max.   :7.000
##
```

```r
tickets_clean1 <- tickets_clean
```

```r
#modello RFM

rfm_study_period <- tickets_clean %>%
  filter(TIC_DATE > as.Date("01/01/2018",
                            format = "%d/%m/%Y")) #-- Active Clients
```

```r
#RECENCY

rfm_recency <- rfm_study_period %>%
  group_by(ID_CLI)          %>% #-- Grouped By Clients
  summarise(LAST_PURCHASE_DATE = max(TIC_DATE))
```

```r
rfm_recency$RECENCY <- difftime(as.Date("30/04/2019",
                                        format = "%d/%m/%Y"),          #-- Recency
                                rfm_recency$LAST_PURCHASE_DATE,
                                units = "days")


#MONETARY

rfm_monetary <- rfm_study_period              %>%
  filter(DIREZIONE == 1)                      %>% #-- Only Purchases
  group_by(ID_CLI)                            %>% #-- Grouped By Clients
  summarise(IMPORTO_LORDO = sum(IMPORTO_LORDO),
            SCONTO = sum(SCONTO),
            SPESA = IMPORTO_LORDO - SCONTO) %>%
  ungroup()                                   %>%
  as.data.frame()                             %>%
  arrange(desc(IMPORTO_LORDO))

#FREQUENCY
rfm_frequency <- rfm_study_period                    %>%
  filter(DIREZIONE == 1)                             %>% #-- Only Purchases
  group_by(ID_CLI)                                   %>% #-- Grouped By Clients
  summarise(TOT_PURCHASE = n_distinct(ID_SCONTRINO)) %>%
  arrange(desc(TOT_PURCHASE))


#MERGE

rfm <- merge(rfm_frequency, #-- Frequency
             rfm_monetary,  #-- Monetary
             by = "ID_CLI") #-- Key for Merge
rfm <- merge(rfm,           #-- Frequency + Monetary
             rfm_recency,   #-- Recency
             by = "ID_CLI") #-- Key for Merge

tickets_clean<- rfm




df<-tickets_clean[, c("ID_CLI", "LAST_PURCHASE_DATE","TOT_PURCHASE","IMPORTO_LORDO")]
colnames(df)[c(1,2,4)]<-c("tIDColName","tDateColName","tAmountColName")



getDataFrame <- function(df,startDate,endDate,tIDColName="tIDColName",tDateColName="tDateColName",tAmoun

    #order the dataframe by date descendingly
    df <- df[order(df[,tDateColName],decreasing = TRUE),]

    #remove the record before the start data and after the end Date
```

```r
    df <- df[df[,tDateColName]>= startDate,]
    df <- df[df[,tDateColName]<= endDate,]

    #remove the rows with the duplicated IDs, and assign the df to a new df.
    newdf <- df[!duplicated(df[,tIDColName]),]

    # caculate the Recency(days) to the endDate, the smaller days value means more recent
    Recency<-as.numeric(difftime(endDate,newdf[,tDateColName],units="days"))

    # add the Days column to the newdf data frame
    newdf <-cbind(newdf,Recency)

    #order the dataframe by ID to fit the return order of table() and tapply()
    newdf <- newdf[order(newdf[,tIDColName]),]

    # caculate the frequency
    fre <- as.data.frame(table(df[,tIDColName]))
    Frequency <- fre[,2]
    newdf <- cbind(newdf,Frequency)

    #caculate the Money per deal
    m <- as.data.frame(tapply(df[,tAmountColName],df[,tIDColName],sum))
    Monetary <- m[,1]/Frequency
    newdf <- cbind(newdf,Monetary)

    return(newdf)

  } # end of function getDataFrame



#function getIndependentScore

getIndependentScore <- function(df,r=5,f=5,m=5) {

  if (r<=0 || f<=0 || m<=0) return

  #order and the score
  df <- df[order(df$Recency,-df$Frequency,-df$Monetary),]
  R_Score <- scoring(df,"Recency",r)
  df <- cbind(df, R_Score)

  df <- df[order(-df$Frequency,df$Recency,-df$Monetary),]
  F_Score <- scoring(df,"Frequency",f)
  df <- cbind(df, F_Score)

  df <- df[order(-df$Monetary,df$Recency,-df$Frequency),]
  M_Score <- scoring(df,"Monetary",m)
  df <- cbind(df, M_Score)

  #order the dataframe by R_Score, F_Score, and M_Score desc
  df <- df[order(-df$R_Score,-df$F_Score,-df$M_Score),]
```

```r
  # caculate the total score
  Total_Score <- c(100*df$R_Score + 10*df$F_Score+df$M_Score)

  df <- cbind(df,Total_Score)

  return (df)

} # end of function getIndependentScore


#Score function

scoring <- function (df,column,r=5){

  #get the length of rows of df
  len <- dim(df)[1]

  score <- rep(0,times=len)

  # get the quantity of rows per 1/r e.g. 1/5
  nr <- round(len / r)
  if (nr > 0){

    # seperate the rows by r aliquots
    rStart <-0
    rEnd <- 0
    for (i in 1:r){

      #set the start row number and end row number
      rStart = rEnd+1

      #skip one "i" if the rStart is already in the i+1 or i+2 or ...scope.
      if (rStart> i*nr) next

      if (i == r){
        if(rStart<=len ) rEnd <- len else next
      }else{
        rEnd <- i*nr
      }

      # set the Recency score
      score[rStart:rEnd]<- r-i+1

      # make sure the customer who have the same recency have the same score
      s <- rEnd+1
      if(i<r & s <= len){
        for(u in s: len){
          if(df[rEnd,column]==df[u,column]){
            score[u]<- r-i+1
            rEnd <- u
          }else{
```

```r
            break;
        }
      }

    }

  }

}
  return(score)
} #end of function Scoring


# set the start and the end date of the analysis
startDate<-as.Date('2018-01-09')
endDate<-as.Date('2019-04-30')
df <- getDataFrame(df,startDate,endDate)

df1 <-getIndependentScore(df)

df1 <- df1[,-4]

##Draw the histograms in the R, F, and M dimensions so that we can see the distribution of customers in

drawHistograms <- function(df,r=5,f=5,m=5){

  #set the layout plot window
  par(mfrow = c(f,r))

  names <-rep("",times=m)
  for(i in 1:m) names[i]<-paste("M",i)


  for (i in 1:f){
    for (j in 1:r){
      c <- rep(0,times=m)
      for(k in 1:m){
        tmpdf <-df[df$R_Score==j & df$F_Score==i & df$M_Score==k,]
        c[k]<- dim(tmpdf)[1]

      }
      if (i==1 & j==1)
        barplot(c,col="lightblue",names.arg=names)
      else
        barplot(c,col="lightblue")
      if (j==1) title(ylab=paste("F",i))
      if (i==1) title(main=paste("R",j))

    }

  }

  par(mfrow = c(1,1))
```

```
} # end of drawHistograms function

#drawHistograms(df1)  margini ampii


par(mfrow = c(1,3))

hist(df$Recency)

hist(df$Frequency)

hist(df$Monetary)
```
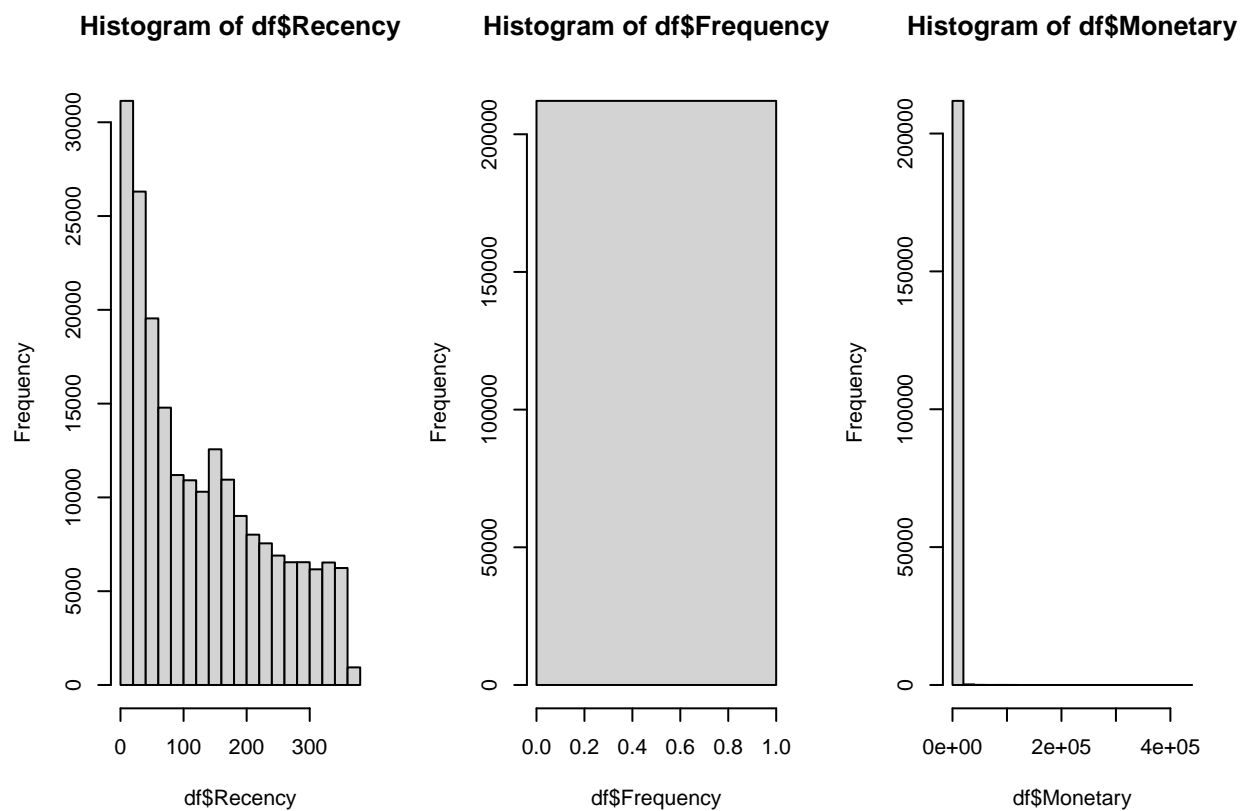


```
S500<-df1[df1$Total_Score>500,]

dim(S500)


## [1] 42533    10


df_1<-df1[, c("tIDColName","TOT_PURCHASE","Monetary","Recency","tDateColName")]
colnames(df_1)[c(1,2,3,4,5)] <- c("customer_id","number_of_orders","revenue","recency_days","analysis_d
rfm_data_customer<-df_1

analysis_date <- lubridate::as_date('2018-04-30')
```

```
rfm_result<- rfm_table_customer(rfm_data_customer, customer_id, number_of_orders, revenue,recency_days,
```

```
rfm_heatmap(rfm_result)
```


RFM Heat Map
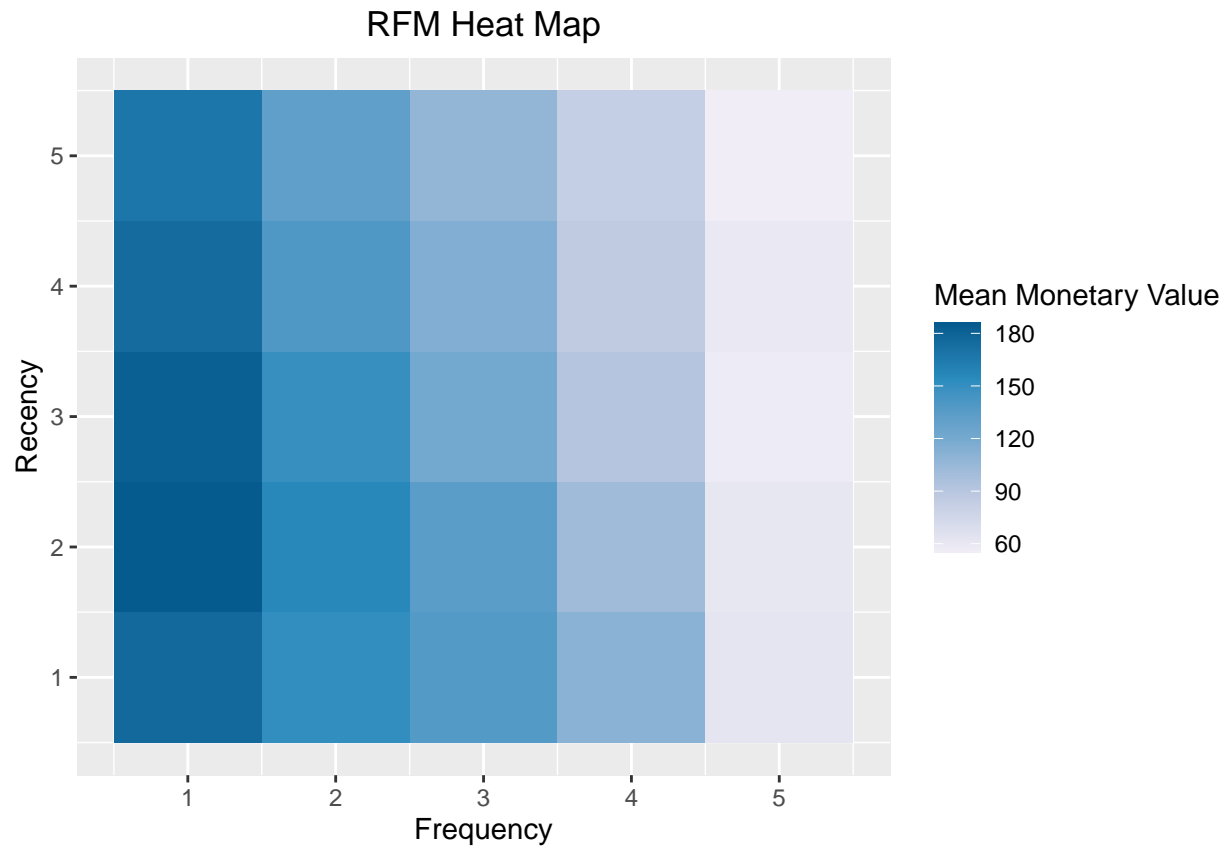
```
rfm_bar_chart(rfm_result)
```
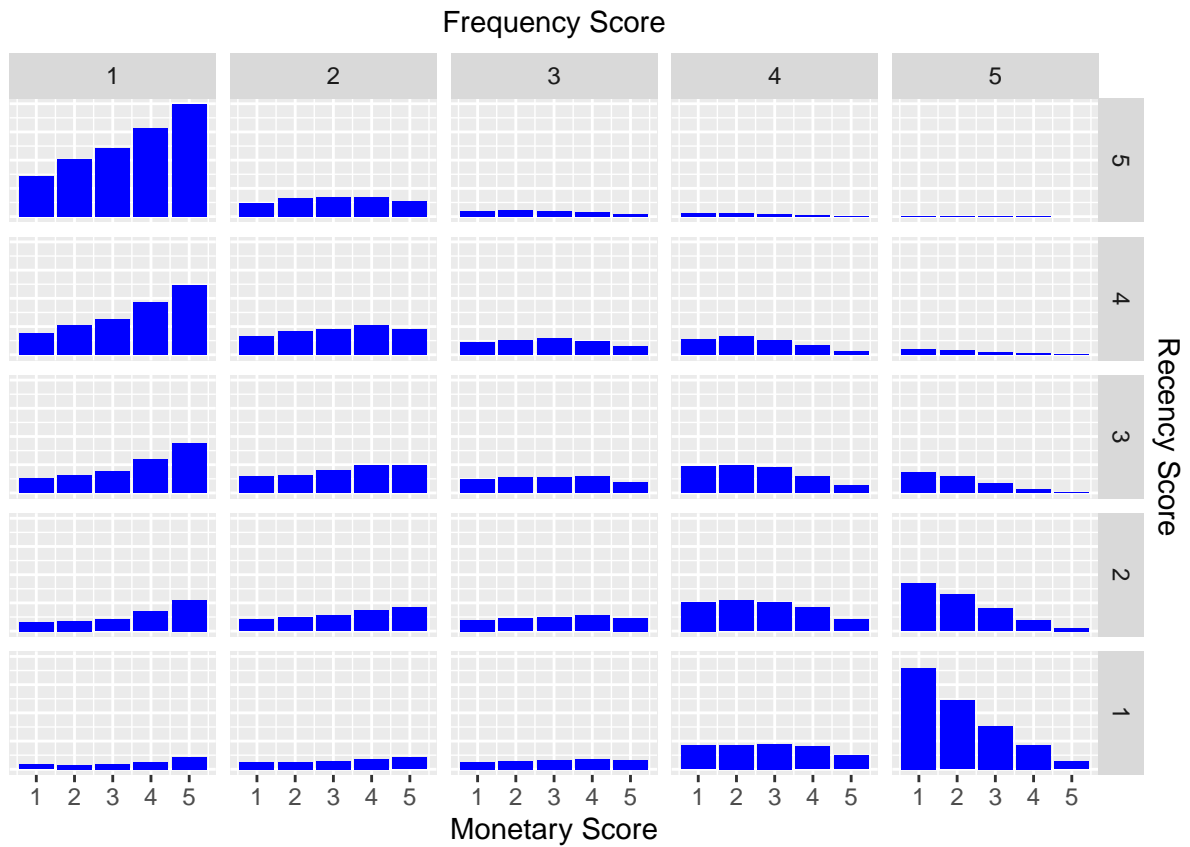
```
rfm_order_dist(rfm_result)
```

Customers by Orders
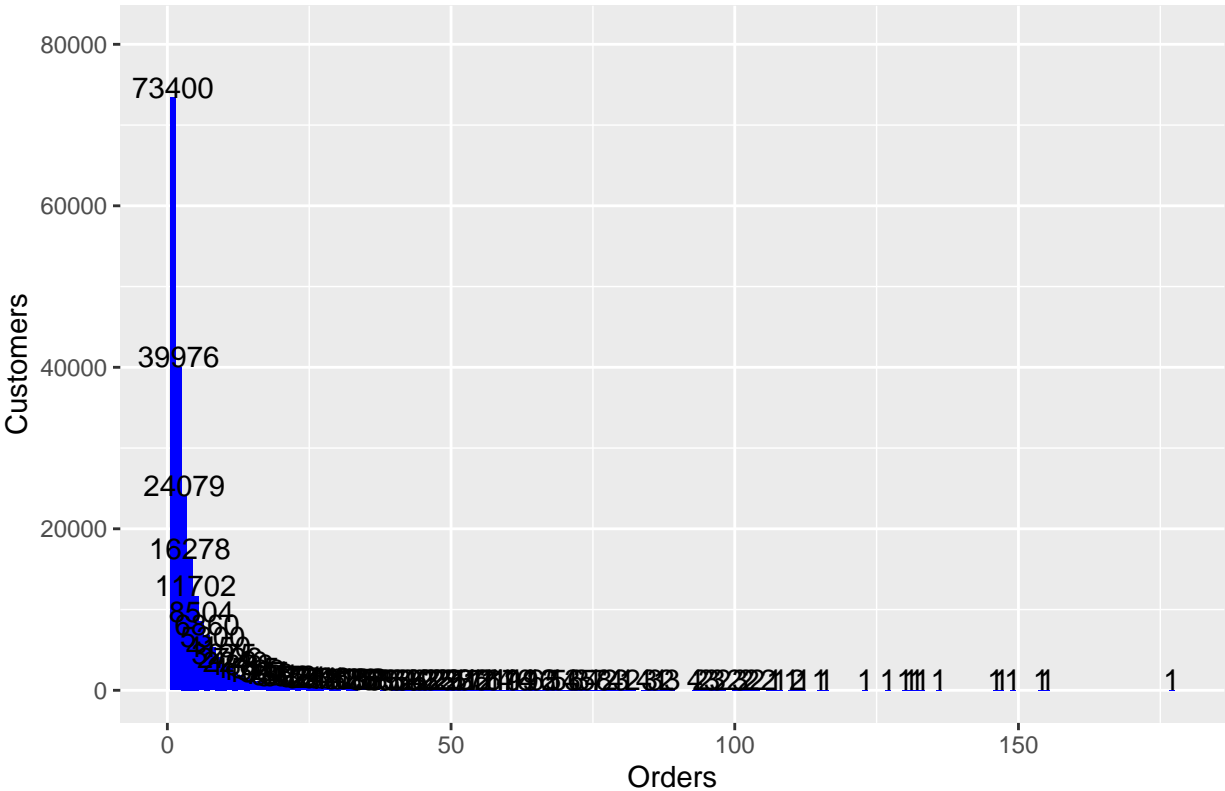

```r
#name of segments

segment <- c(
"Champions", "Loyal Customers", "Potential Loyalist",
"New Customers", "Promising", "Need Attention",
"About To Sleep", "At Risk", "Can't Lose Them", "Hibernating",
"Lost"
)
description <- c(
  "Bought recently, buy often and spend the most",
  "Spend good money. Responsive to promotions",
  "Recent customers, spent good amount, bought more than once",
  "Bought more recently, but not often",
  "Recent shoppers, but haven't spent much",
  "Above average recency, frequency & monetary values",
  "Below average recency, frequency & monetary values",
  "Spent big money, purchased often but long time ago",
  "Made big purchases and often, but long time ago",
  "Low spenders, low frequency, purchased long time ago",
  "Lowest recency, frequency & monetary scores"
)
recency <- c("4 - 5", "2 - 5", "3 - 5", "4 - 5", "3 - 4", "2 - 3", "2 - 3", "<= 2", "<= 1", "1 - 2", "<=
frequency <- c("4 - 5", "3 - 5", "1 - 3", "<= 1", "<= 1", "2 - 3", "<= 2", "2 - 5", "4 - 5", "1 - 2", ".
monetary <- c("4 - 5", "3 - 5", "1 - 3", "<= 1", "<= 1", "2 - 3", "<= 2", "2 - 5", "4 - 5", "1 - 2", "<=
segments <- tibble(
  Segment = segment, Description = description,
```

```r
  R = recency, `F` = frequency, M = monetary
)

segments %>%
  kable() %>%
  kable_styling(full_width = TRUE, font_size = 12)
```

Segment	Description	R	F	M
Champions	Bought recently, buy often and spend the most	4 - 5	4 - 5	4 - 5
Loyal Customers	Spend good money. Responsive to promotions	2 - 5	3 - 5	3 - 5
Potential Loyalist	Recent customers, spent good amount, bought more than once	3 - 5	1 - 3	1 - 3
New Customers	Bought more recently, but not often	4 - 5	<= 1	<= 1
Promising	Recent shoppers, but haven't spent much	3 - 4	<= 1	<= 1
Need Attention	Above average recency, frequency & monetary values	2 - 3	2 - 3	2 - 3
About To Sleep	Below average recency, frequency & monetary values	2 - 3	<= 2	<= 2
At Risk	Spent big money, purchased often but long time ago	<= 2	2 - 5	2 - 5
Can't Lose Them	Made big purchases and often, but long time ago	<= 1	4 - 5	4 - 5
Hibernating	Low spenders, low frequency, purchased long time ago	1 - 2	1 - 2	1 - 2
Lost	Lowest recency, frequency & monetary scores	<= 2	<= 2	<= 2

```r
segment_names <- c("Champions", "Loyal Customers", "Potential Loyalist",
                   "New Customers", "Promising", "Need Attention", "About To Sleep",
                   "At Risk", "Can't Lose Them", "Lost")

recency_lower <- c(4, 2, 3, 4, 3, 2, 2, 1, 1, 1)
recency_upper <- c(5, 5, 5, 5, 4, 3, 3, 2, 1, 2)
frequency_lower <- c(4, 3, 1, 1, 1, 2, 1, 2, 4, 1)
frequency_upper <- c(5, 5, 3, 1, 1, 3, 2, 5, 5, 2)
monetary_lower <- c(4, 3, 1, 1, 1, 2, 1, 2, 4, 1)
monetary_upper <- c(5, 5, 3, 1, 1, 3, 2, 5, 5, 2)

segments <- rfm_segment(rfm_result, segment_names, recency_lower, recency_upper, frequency_lower, freque

segments<- rfm_segment(rfm_result, segment_names, recency_lower, recency_upper,
                       frequency_lower, frequency_upper, monetary_lower, monetary_upper)



#use datatable
#segments %>%
 # datatable(
 #   filter = "top",
 #   options = list(pageLength = 9, autoWidth = TRUE),
 #   colnames = c(
 #     "Index","Customer", "Segment", "RFM",
 #     "Orders",   "Total Spend","R","F","M","amount"
 #   )
 #
 # )
# collegamento html,link nelle slide

#verifica

segments %>%
  count(segment) %>%
  arrange(desc(n)) %>%
  rename(Segment = segment, Count = n)
```

```
##                Segment Count
## 1               Others 88627
## 2 Potential Loyalist 48746
## 3              At Risk 36892
## 4    Loyal Customers 28507
## 5     Need Attention  3702
## 6     About To Sleep  2747
## 7           Champions  1464
## 8               Lost  1439
```

```r
rfm_plot_median_recency(segments)
```

Median Recency by Segment
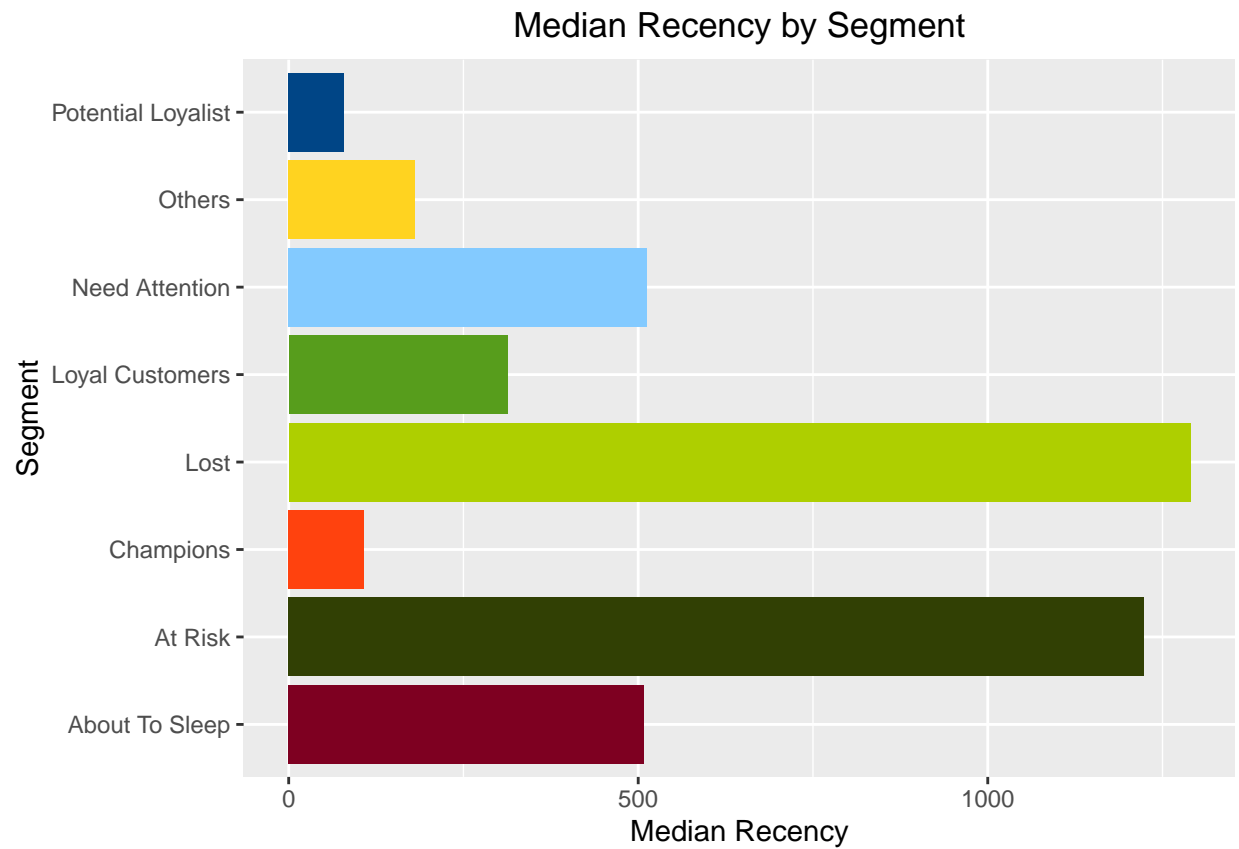
```r
rfm_plot_median_frequency(segments)
```

Median Frequency by Segment
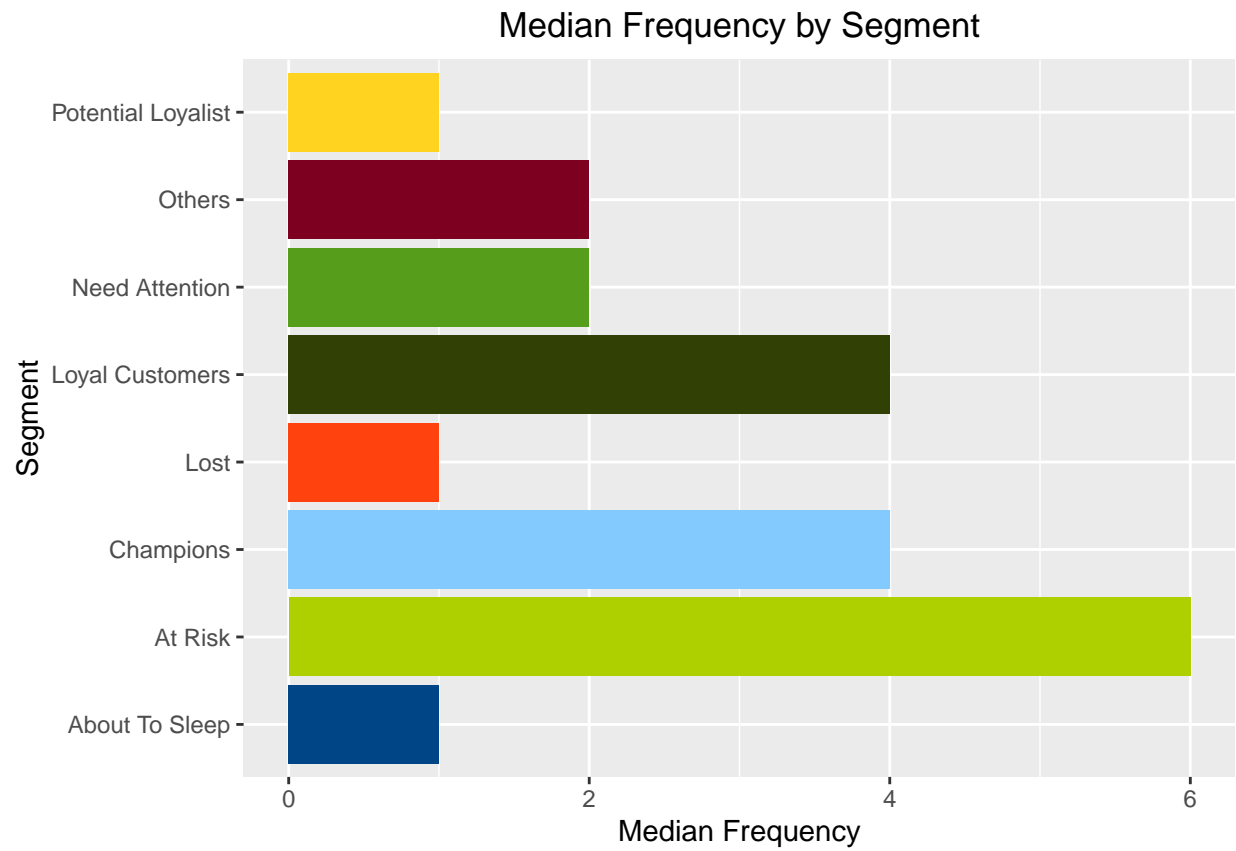
```r
rfm_plot_median_monetary(segments)
```

Median Monetary Value by Segment
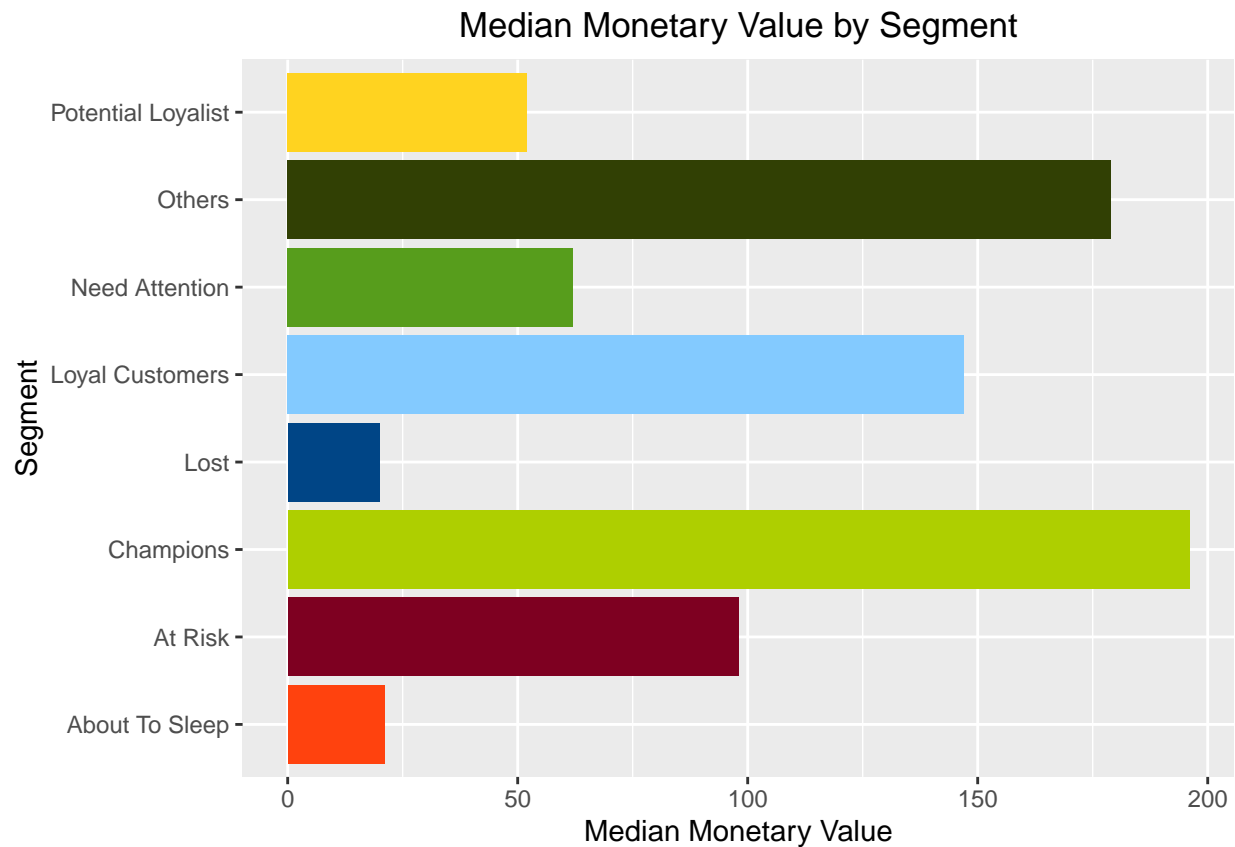

```r
#MODELLO CHURN###


tickets_clean <- tickets_clean1

churn_study_period <- tickets_clean %>%
  filter(TIC_DATE < as.Date("01/01/2019",
                            format = "%d/%m/%Y"),
         TIC_DATE > as.Date("01/10/2018",
                            format = "%d/%m/%Y"))



churn_recency <- churn_study_period %>%
  filter(DIREZIONE == 1) %>%
  group_by(ID_CLI) %>%
  summarise(LAST_PURCHASE_DATE = max(TIC_DATE))
churn_recency$RECENCY <- difftime(as.Date("01/01/2019",
                                          format = "%d/%m/%Y"),          #-- Recency
                                  churn_recency$LAST_PURCHASE_DATE,
                                  units = "days")


#HOLDOUT
churn_holdout <- tickets_clean %>%
  filter(DIREZIONE == 1,
```

```r
        TIC_DATE < as.Date("28/02/2019",
                            format = "%d/%m/%Y"),
        TIC_DATE > as.Date("01/01/2019",
                            format = "%d/%m/%Y"))
no_churner <- unique(churn_holdout$ID_CLI)


#-- Frequency to Merge
churn_frequency <- churn_study_period %>%
  filter(DIREZIONE == 1) %>%
  group_by(ID_CLI) %>%
  summarise(TOT_PURCHASE = n_distinct(ID_SCONTRINO)) %>%
  arrange(desc(TOT_PURCHASE))

#-- Monetary to Merge
churn_monetary <- churn_study_period %>%
  filter(DIREZIONE == 1) %>%
  group_by(ID_CLI) %>%
  summarise(IMPORTO_LORDO = sum(IMPORTO_LORDO),
            SCONTO = sum(SCONTO),
            SPESA = (IMPORTO_LORDO - SCONTO)) %>%
  ungroup() %>%
  as.data.frame() %>%
  arrange(desc(IMPORTO_LORDO))
churn <- merge(churn_recency, churn_frequency, by = "ID_CLI")
churn <- merge(churn, churn_monetary, by = "ID_CLI") %>%
  select(ID_CLI,
         RECENCY,
         SPESA,
         TOT_PURCHASE)


#Assign each customer a target variable 0/1 so that 1 is assigned to customers who have shaken in the h

churn$CHURN <- 1
for (i in c(1:nrow(churn))){
  if (churn$ID_CLI[i] %in% no_churner) churn$CHURN[i] <- 0
}
churn$CHURN <- as.factor(churn$CHURN)
table(churn$CHURN)
```

```
##
##     0     1
## 35373 59752
```

```r
#Defining a set of potentially relevant variables to be computed within the lookback period:


churn <- left_join(churn, df_2_cli_account_clean[, c("ID_CLI", "TYP_JOB")], by = "ID_CLI")  #-- Add Typ
churn <- left_join(churn, df_1_cli_fid_clean[, c("ID_CLI", "LAST_COD_FID")], by = "ID_CLI") #-- Add Typ
region <- left_join(df_2_cli_account_clean[, c("ID_CLI", "ID_ADDRESS")],
                    df_3_cli_address_clean[, c("ID_ADDRESS", "REGION")], by = "ID_ADDRESS") #-- Add Reg
```

```r
churn <- left_join(churn, region, by = "ID_CLI")



#train test split
colnames(churn) <- c("ID_CLI", "RECENCY", "SPESA", "TOT_PURCHASE", "CHURN","TYP_JOB","LAST_COD_FID","REG

churn <- na.omit(churn)
train_index <- createDataPartition(churn$CHURN,
                                    p = .70,
                                    list = FALSE,
                                    times = 1)



train <- churn[train_index,]
test <- churn[-train_index,]
table(train$CHURN)


##
##     0     1
## 23972 39886

# Regression Trees (`tree`);
# Random Forest (`tree_rf`);
# Logistic Regression (`logistic`);

#REGRESSION TREE

tree <- rpart(CHURN ~ RECENCY + SPESA + TOT_PURCHASE + REGION + TYP_JOB,
              data = train)
rpart.plot(tree, extra = "auto")
```

1
0.62
100%

yes — TOT_PURCHASE >= 3 — *no*

0
0.43
32%

RECENCY < 23

0
0.32
18%

1
0.56
14%

1
0.72
68%
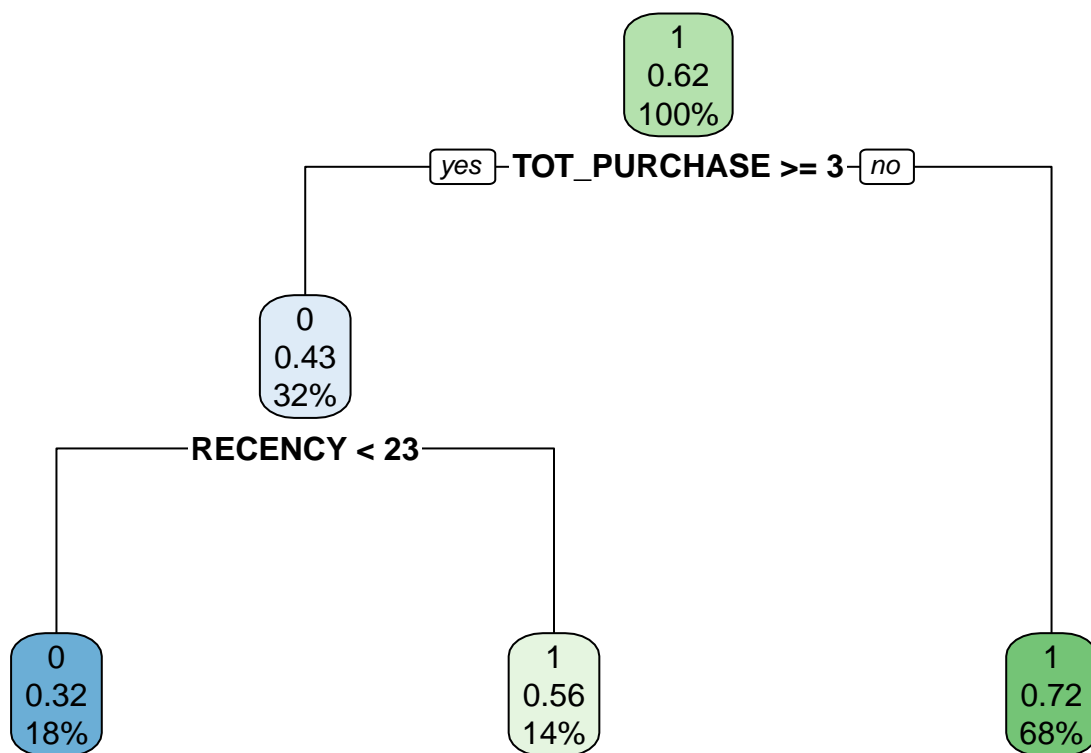
```r
summary(tree) #-- num di acquisti è la variabile più importante
```

```
## Call:
## rpart(formula = CHURN ~ RECENCY + SPESA + TOT_PURCHASE + REGION +
##     TYP_JOB, data = train)
##   n= 63858
##
##           CP nsplit rel error    xerror       xstd
## 1 0.12431170      0 1.0000000 1.0000000 0.005104468
## 2 0.04601201      1 0.8756883 0.8734357 0.004948636
## 3 0.01000000      2 0.8296763 0.8325964 0.004886352
##
## Variable importance
## TOT_PURCHASE      RECENCY         SPESA
##           65           20            15
##
## Node number 1: 63858 observations,    complexity param=0.1243117
##   predicted class=1  expected loss=0.3753954  P(node) =1
##     class counts: 23972 39886
##    probabilities: 0.375 0.625
##   left son=2 (20676 obs) right son=3 (43182 obs)
##   Primary splits:
##       TOT_PURCHASE < 2.5      to the right, improve=2365.26700, (0 missing)
##       RECENCY      < 22.5     to the left,  improve=1820.92100, (0 missing)
##       SPESA        < 500.975  to the right, improve= 443.96030, (0 missing)
```

```
##         REGION      < 738243   to the right, improve=  92.87060, (0 missing)
##         TYP_JOB     splits as  LLLLLLRLLRLLLLR, improve=  66.60719, (0 missing)
##   Surrogate splits:
##         SPESA   < 300.955  to the right, agree=0.752, adj=0.233, (0 split)
##         RECENCY < 13.5     to the left,  agree=0.698, adj=0.067, (0 split)
##         REGION  < 744989   to the right, agree=0.677, adj=0.001, (0 split)
##         TYP_JOB splits as  RLRRRRRRRRRRLRR, agree=0.676, adj=0.000, (0 split)
##
## Node number 2: 20676 observations,    complexity param=0.04601201
##   predicted class=0  expected loss=0.4279358  P(node) =0.3237809
##     class counts: 11828  8848
##    probabilities: 0.572 0.428
##   left son=4 (11493 obs) right son=5 (9183 obs)
##   Primary splits:
##         RECENCY      < 22.5     to the left,  improve=576.75380, (0 missing)
##         TOT_PURCHASE < 5.5      to the right, improve=466.52420, (0 missing)
##         SPESA        < 1926.115 to the right, improve= 53.02154, (0 missing)
##         REGION       < 708682   to the right, improve= 35.93063, (0 missing)
##         TYP_JOB      splits as  LLRLLLRLRRLRRLR, improve= 16.63414, (0 missing)
##   Surrogate splits:
##         TOT_PURCHASE < 3.5      to the right, agree=0.610, adj=0.122, (0 split)
##         SPESA        < 60.435   to the right, agree=0.557, adj=0.002, (0 split)
##         REGION       < 825630.5 to the left,  agree=0.556, adj=0.001, (0 split)
##
## Node number 3: 43182 observations
##   predicted class=1  expected loss=0.2812283  P(node) =0.6762191
##     class counts: 12144 31038
##    probabilities: 0.281 0.719
##
## Node number 4: 11493 observations
##   predicted class=0  expected loss=0.3223701  P(node) =0.1799774
##     class counts:  7788  3705
##    probabilities: 0.678 0.322
##
## Node number 5: 9183 observations
##   predicted class=1  expected loss=0.4399434  P(node) =0.1438034
##     class counts:  4040  5143
##    probabilities: 0.440 0.560
```

```r
printcp(tree) #-- complexity parameter
```

```
##
## Classification tree:
## rpart(formula = CHURN ~ RECENCY + SPESA + TOT_PURCHASE + REGION +
##     TYP_JOB, data = train)
##
## Variables actually used in tree construction:
## [1] RECENCY      TOT_PURCHASE
##
## Root node error: 23972/63858 = 0.3754
##
## n= 63858
##
##         CP nsplit rel error  xerror      xstd
```

```
## 1 0.124312      0   1.00000 1.00000 0.0051045
## 2 0.046012      1   0.87569 0.87344 0.0049486
## 3 0.010000      2   0.82968 0.83260 0.0048864
```

#RANDOM FOREST

```r
memory.limit(100000)
```

```
## [1] 1e+05
```

```r
tree_rf <- randomForest(CHURN ~ RECENCY + SPESA + TOT_PURCHASE + REGION + TYP_JOB,
                        data = train, ntree = 100)
print(tree_rf)
```

```
##
## Call:
##  randomForest(formula = CHURN ~ RECENCY + SPESA + TOT_PURCHASE +      REGION + TYP_JOB, data = train
##                Type of random forest: classification
##                      Number of trees: 100
## No. of variables tried at each split: 2
##
##          OOB estimate of  error rate: 31.47%
## Confusion matrix:
##       0     1 class.error
## 0 9659 14313   0.5970716
## 1 5783 34103   0.1449882
```

#LOGISTIC REGRESSION
```r
logistic <- train(CHURN ~ RECENCY + SPESA + TOT_PURCHASE + REGION + TYP_JOB,
                  data = train,
                  method = "glm")
```

```r
summary(logistic)
```

```
##
## Call:
## NULL
##
## Deviance Residuals:
##     Min      1Q   Median       3Q      Max
## -2.1594  -1.1616   0.6797   0.9107   4.7457
##
## Coefficients:
##                                 Estimate Std. Error z value
## (Intercept)                    1.899e-01  1.577e-01    1.204
## RECENCY                        1.699e-02  3.896e-04   43.597
## SPESA                          8.721e-06  6.598e-06    1.322
## TOT_PURCHASE                  -2.138e-01  4.408e-03  -48.490
## REGION                         5.272e-07  3.858e-08   13.666
## TYP_JOBArtigiano              -3.137e-01  3.971e-01   -0.790
## TYP_JOBCasalinga              -2.644e-01  3.951e-01   -0.669
```

```
## `TYP_JOBCommerciante/Esercente`                -7.182e-01  4.897e-01  -1.467
## `TYP_JOBDirigente/Quadro/Funzionario`           9.216e-03  2.693e-01   0.034
## `TYP_JOBImpiegato/a`                            -4.313e-01  1.854e-01  -2.327
## TYP_JOBImprenditore                             9.463e-02  4.378e-01   0.216
## `TYP_JOBIn cerca di occupazione`                -3.738e-01  4.741e-01  -0.788
## `TYP_JOBLibero professionista`                  -1.949e-01  1.696e-01  -1.150
## `TYP_JOBNon Dichiara`                            1.413e-01  3.360e-01   0.420
## `TYP_JOBOperaio/a`                              -5.756e-01  2.514e-01  -2.290
## `TYP_JOBPensionato/a`                           -2.481e-01  2.305e-01  -1.076
## `TYP_JOBRappresentante/Agente Commerciale` -1.047e+00  1.331e+00  -0.787
## TYP_JOBStudente                                 -9.035e-01  6.779e-01  -1.333
## `TYP_JOB(missing)`                               6.831e-02  1.558e-01   0.438
##                                                 Pr(>|z|)
## (Intercept)                                        0.228
## RECENCY                                           <2e-16 ***
## SPESA                                              0.186
## TOT_PURCHASE                                      <2e-16 ***
## REGION                                            <2e-16 ***
## TYP_JOBArtigiano                                   0.430
## TYP_JOBCasalinga                                   0.503
## `TYP_JOBCommerciante/Esercente`                    0.142
## `TYP_JOBDirigente/Quadro/Funzionario`              0.973
## `TYP_JOBImpiegato/a`                               0.020 *
## TYP_JOBImprenditore                                0.829
## `TYP_JOBIn cerca di occupazione`                   0.430
## `TYP_JOBLibero professionista`                     0.250
## `TYP_JOBNon Dichiara`                              0.674
## `TYP_JOBOperaio/a`                                 0.022 *
## `TYP_JOBPensionato/a`                              0.282
## `TYP_JOBRappresentante/Agente Commerciale`         0.431
## TYP_JOBStudente                                    0.183
## `TYP_JOB(missing)`                                 0.661
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 84518  on 63857  degrees of freedom
## Residual deviance: 76037  on 63839  degrees of freedom
## AIC: 76075
##
## Number of Fisher Scoring iterations: 4
```

```
#PREDICTION

# Prediction Treee
pred <- predict(tree, test[, -5], type = "class")
p1 <- unlist(pred)
confusionMatrix(p1, test$CHURN)
```

```
## Confusion Matrix and Statistics
##
##           Reference
## Prediction      0      1
```

```
##          0  3322  1644
##          1  6951 15449
##
##                Accuracy : 0.6859
##                  95% CI : (0.6804, 0.6914)
##     No Information Rate : 0.6246
##     P-Value [Acc > NIR] : < 2.2e-16
##
##                   Kappa : 0.2533
##
##  Mcnemar's Test P-Value : < 2.2e-16
##
##             Sensitivity : 0.3234
##             Specificity : 0.9038
##          Pos Pred Value : 0.6689
##          Neg Pred Value : 0.6897
##              Prevalence : 0.3754
##          Detection Rate : 0.1214
##    Detection Prevalence : 0.1815
##       Balanced Accuracy : 0.6136
##
##        'Positive' Class : 0
##
```

```r
# Prediction RF
pred_rf <- predict(tree_rf, test[,-5], type = "class")
confusionMatrix(pred_rf, test$CHURN)
```

```
## Confusion Matrix and Statistics
##
##           Reference
## Prediction     0     1
##          0  4117  2495
##          1  6156 14598
##
##                Accuracy : 0.6839
##                  95% CI : (0.6783, 0.6894)
##     No Information Rate : 0.6246
##     P-Value [Acc > NIR] : < 2.2e-16
##
##                   Kappa : 0.2743
##
##  Mcnemar's Test P-Value : < 2.2e-16
##
##             Sensitivity : 0.4008
##             Specificity : 0.8540
##          Pos Pred Value : 0.6227
##          Neg Pred Value : 0.7034
##              Prevalence : 0.3754
##          Detection Rate : 0.1504
##    Detection Prevalence : 0.2416
##       Balanced Accuracy : 0.6274
##
##        'Positive' Class : 0
```

```
##
```

```
#Prediction Logistic
pred_logistic <- predict(logistic, test[, -5], type = "raw")
confusionMatrix(pred_logistic, test$CHURN)
```

```
## Confusion Matrix and Statistics
##
##           Reference
## Prediction    0     1
##          0 3632  1806
##          1 6641 15287
##
##                  Accuracy : 0.6913
##                    95% CI : (0.6858, 0.6968)
##       No Information Rate : 0.6246
##       P-Value [Acc > NIR] : < 2.2e-16
##
##                     Kappa : 0.2736
##
##   Mcnemar's Test P-Value : < 2.2e-16
##
##               Sensitivity : 0.3535
##               Specificity : 0.8943
##            Pos Pred Value : 0.6679
##            Neg Pred Value : 0.6971
##                Prevalence : 0.3754
##            Detection Rate : 0.1327
##      Detection Prevalence : 0.1987
##         Balanced Accuracy : 0.6239
##
##          'Positive' Class : 0
##
```

```
# Accuracy CHURN
accuracy <- as.data.frame(t(cbind(confusionMatrix(pred_logistic, test$CHURN)$overall[1],
                                  confusionMatrix(pred_rf, test$CHURN)$overall[1],
                                  confusionMatrix(pred, test$CHURN)$overall[1])))
accuracy <- as.data.frame(cbind(c( "Logistic","Random Forest","Tree"),
                                accuracy))

colnames(accuracy) <- c("Models", "Accuracy")
ggplot(data = accuracy,
       aes(x = Models,
           y = Accuracy,
           fill = Models)) +
  geom_bar(stat = "identity") +
  coord_cartesian(ylim = c(0.681, 0.693)) +
  theme_minimal() +
  guides(fill = FALSE) +
  labs(title = "Accuracy",
       x = "Models",
       y = " ") +
```

```
scale_fill_manual(values = c("#FF1053","#6C6EA0","#66C7F4","#C1CAD6")) +
theme(plot.title = element_text(hjust = 0.5)) + #-- Centering Title
plot(accuracy$Accuracy)
```

Accuracy
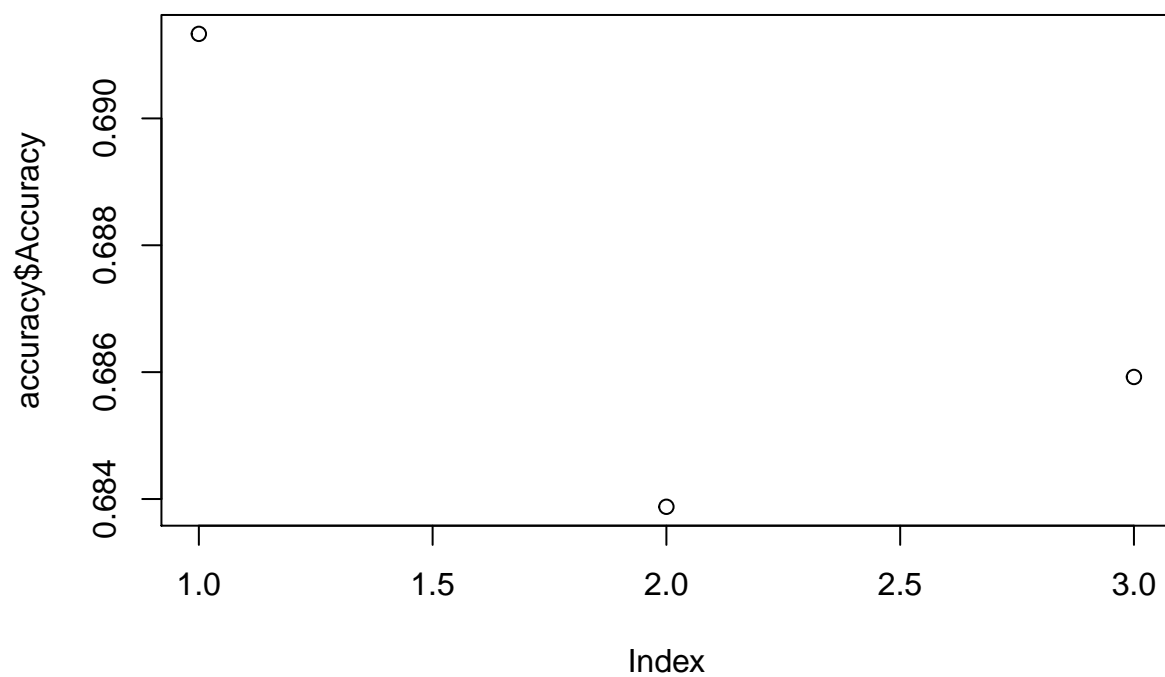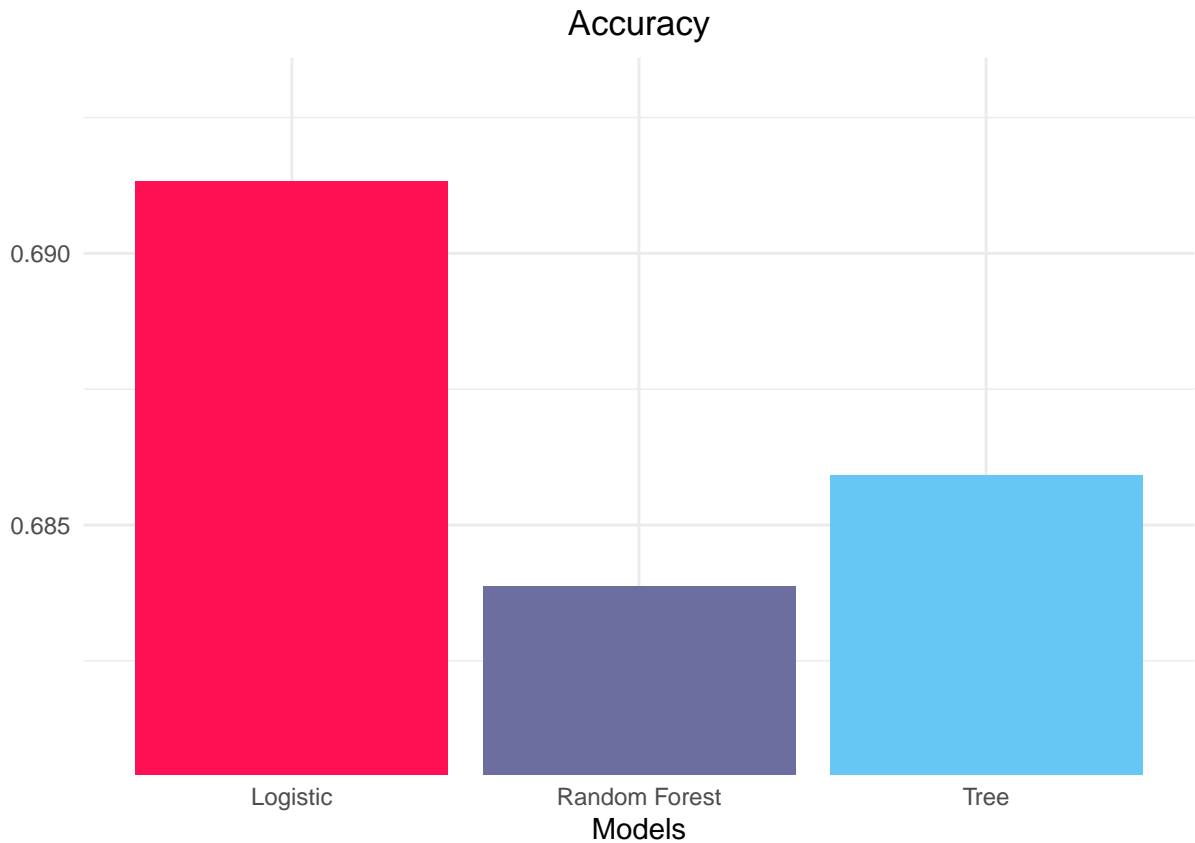

```
#Probability
p_tree = predict(tree, test[,-5], "prob")[,1]
p_rf = predict(tree_rf, test[,-5], "prob")[,1]
p_log = predict(logistic, test[,-5], "prob")[,1]

#Data
data_class = as.data.frame(cbind(p_tree, p_rf, p_log))
data_class = cbind(data_class, test$CHURN)
colnames(data_class) <- c("p_tree", "p_rf", "p_log", "churn")
head(data_class)
```

```
##       p_tree p_rf    p_log churn
## 5  0.6776299 0.51 0.9078449     0
## 19 0.4399434 0.59 0.4519669     0
## 23 0.2812283 0.13 0.3297312     0
## 26 0.2812283 0.22 0.3227350     1
## 30 0.2812283 0.12 0.2656898     1
## 31 0.4399434 0.44 0.4929244     1
```

```
#Lift
lift_tree = gain_lift(data = data_class, score = 'p_tree', target = 'churn')
```
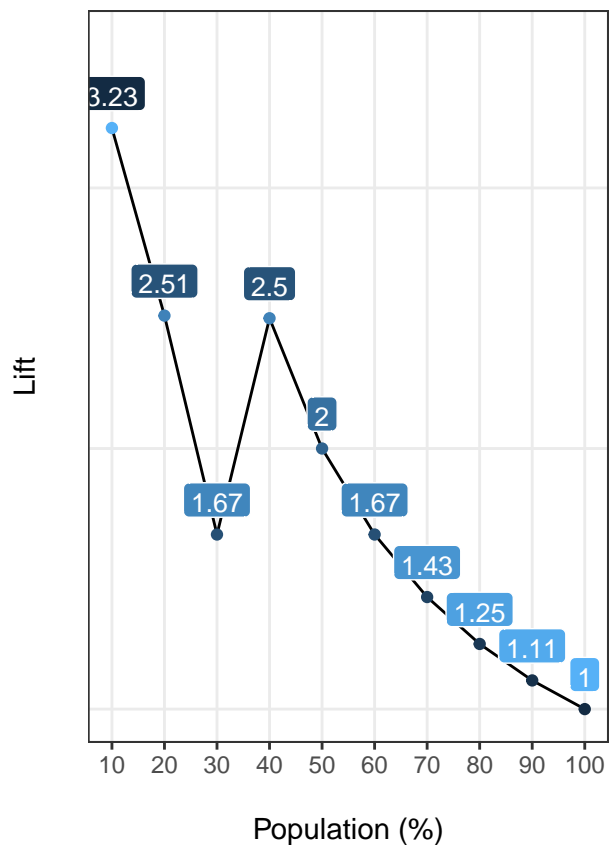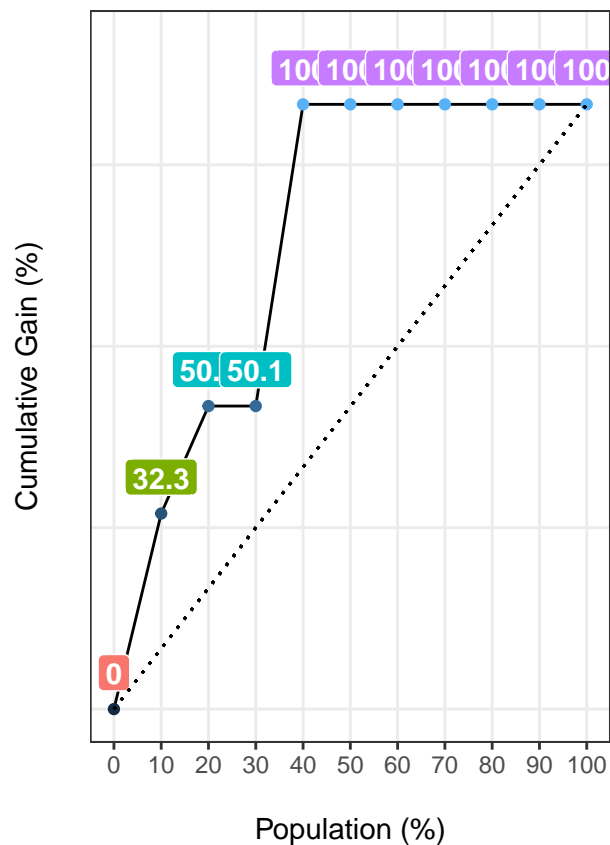
```
##    Population   Gain Lift Score.Point
## 1          10  32.34 3.23   0.6776299
## 2          20  50.11 2.51   0.4399434
## 3          30  50.11 1.67   0.4399434
## 4          40 100.00 2.50   0.2812283
## 5          50 100.00 2.00   0.2812283
## 6          60 100.00 1.67   0.2812283
## 7          70 100.00 1.43   0.2812283
## 8          80 100.00 1.25   0.2812283
## 9          90 100.00 1.11   0.2812283
## 10        100 100.00 1.00   0.2812283
```

```
lift_rf = gain_lift(data = data_class, score = 'p_rf', target = 'churn')
```
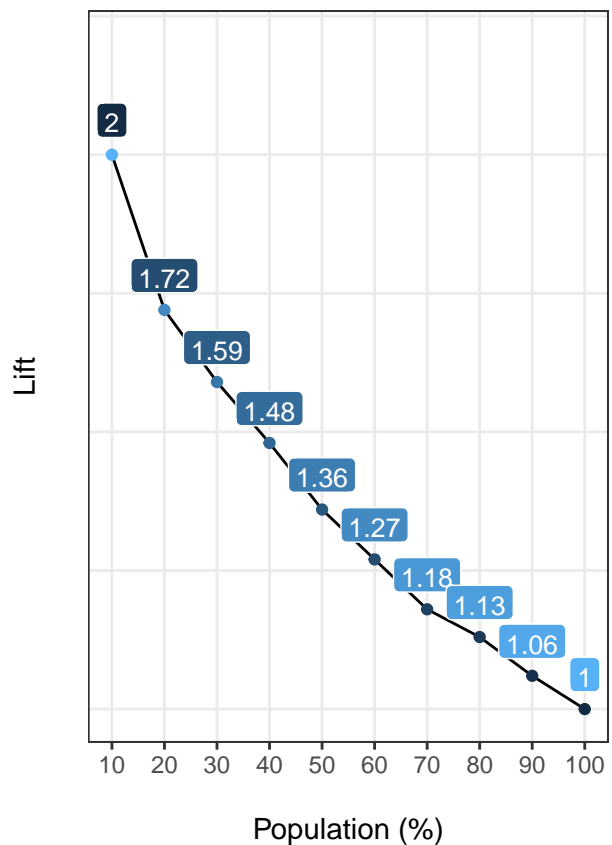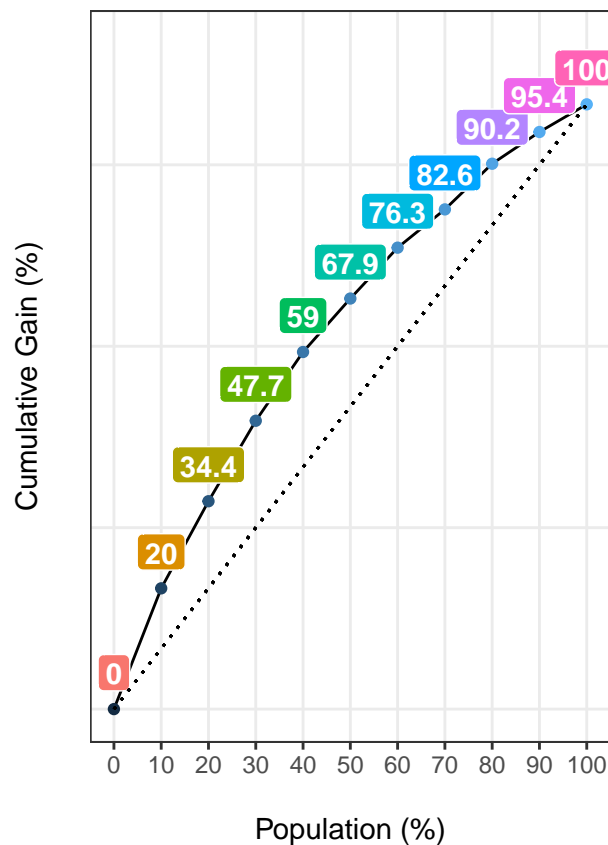
```
##    Population   Gain  Lift  Score.Point
## 1         10  19.97  2.00          0.71
## 2         20  34.37  1.72          0.56
## 3         30  47.68  1.59          0.43
## 4         40  59.05  1.48          0.33
## 5         50  67.89  1.36          0.26
## 6         60  76.30  1.27          0.20
## 7         70  82.63  1.18          0.16
## 8         80  90.18  1.13          0.11
## 9         90  95.43  1.06          0.07
## 10       100 100.00  1.00          0.00
```

```
lift_log = gain_lift(data = data_class, score = 'p_log', target = 'churn')
```
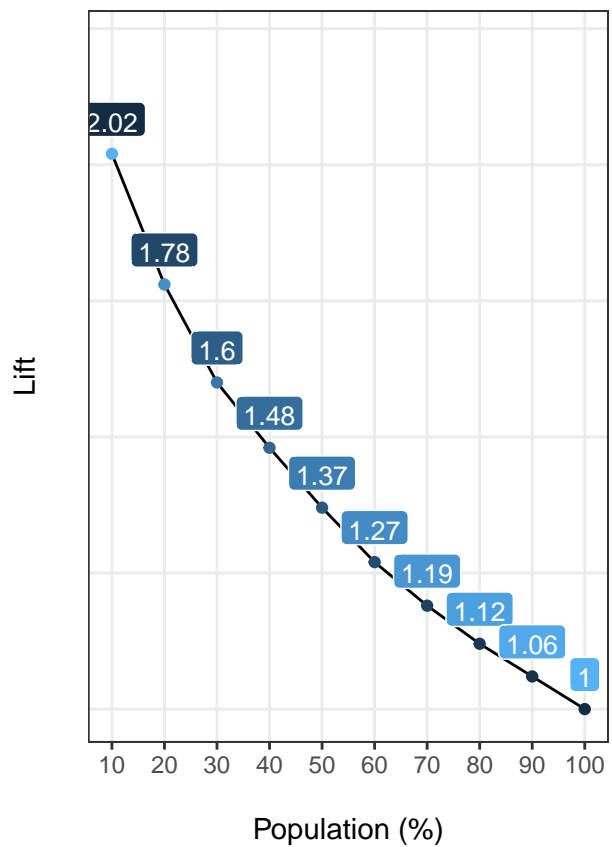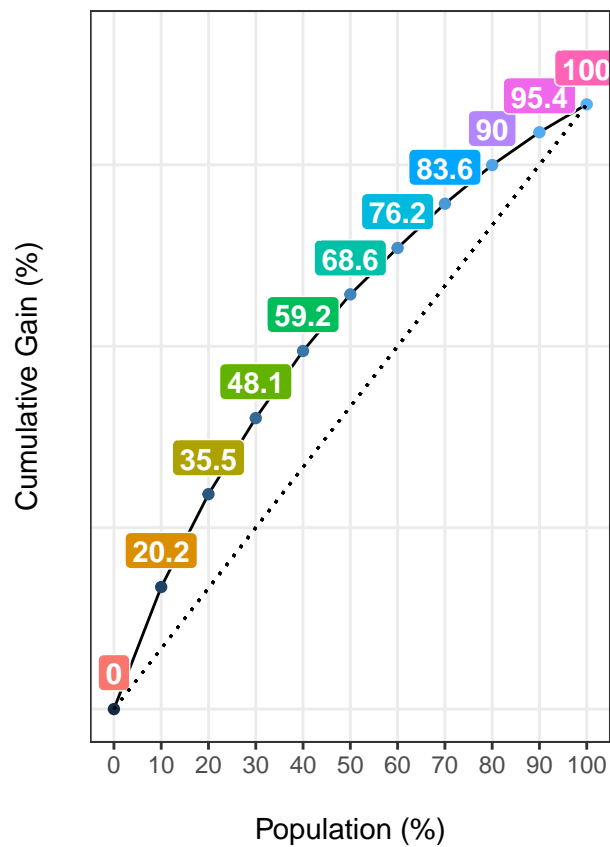
```
##    Population    Gain Lift Score.Point
## 1         10   20.19 2.02    0.6202572
## 2         20   35.54 1.78    0.4988127
## 3         30   48.12 1.60    0.4346111
## 4         40   59.22 1.48    0.3861201
## 5         50   68.58 1.37    0.3455547
## 6         60   76.25 1.27    0.3061185
## 7         70   83.57 1.19    0.2653652
## 8         80   89.96 1.12    0.2262721
## 9         90   95.39 1.06    0.1849110
## 10       100  100.00 1.00    0.1288746
```