Restaurant

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```
#Loading all data files
air_store_info <- read_csv("air_store_info.csv", show_col_types = FALSE, col_types = cols())
air_reserve_data <- read_csv("air_reserve.csv",show_col_types = FALSE,col_types = cols())</pre>
air_visit_data <- read_csv("air_visit_data.csv", show_col_types = FALSE, col_types = cols())
date_info <- read_csv("date_info.csv",show_col_types = FALSE,col_types = cols())</pre>
hpg_reserve <- read_csv("hpg_reserve.csv",show_col_types = FALSE,col_types = cols())</pre>
hpg_store_info <- read_csv("hpg_store_info.csv", show_col_types = FALSE, col_types = cols())
store_id_relation <- read_csv("store_id_relation.csv",show_col_types = FALSE,col_types = cols())</pre>
test <- read_csv("sample_submission.csv")</pre>
## Rows: 32019 Columns: 2
## -- Column specification --------
## Delimiter: "."
## chr (1): id
## dbl (1): visitors
##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

Exploration of Air Store Data

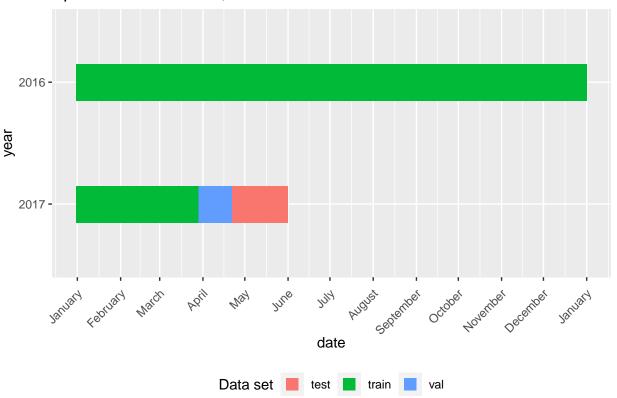
```
## Converting Dates to Date Type
air_reserve_data$visit_datetime <- as.Date(air_reserve_data$visit_datetime)
air_reserve_data$reserve_datetime <- as.Date(air_reserve_data$reserve_datetime)
air_visit_data$visit_date <- as.Date(air_visit_data$visit_date)

# Performing Inner Join on air_reserve_data and air_store_info to create a single table
# that contains information of all reservations along with corresponding store information
air_reservation <- inner_join(air_reserve_data,air_store_info,by=c("air_store_id"="air_store_id"))</pre>
```

```
date_info$reserve_datetime = date_info$calendar_date
air_reservation <- inner_join(air_reservation,date_info)</pre>
## Joining, by = "reserve_datetime"
## Similarly on air_visit_data and air_store_info
air_visited<- inner_join(air_visit_data,air_store_info,by=c("air_store_id"="air_store_id"))
date_info$visit_date = date_info$reserve_datetime
air_visited <- inner_join(air_visited,date_info)</pre>
## Joining, by = "visit_date"
head(air_reservation)
## # A tibble: 6 x 11
    air_store_id visit_datetime reserve_datetime reserve_visitors air_genre_name
     <chr>>
                    <date>
                                   <date>
                                                                <dbl> <chr>
## 1 air_877f79706~ 2016-01-01
                                   2016-01-01
                                                                    1 Japanese food
## 2 air_db4b38ebe~ 2016-01-01
                                   2016-01-01
                                                                    3 Dining bar
## 3 air_db4b38ebe~ 2016-01-01
                                   2016-01-01
                                                                    6 Dining bar
## 4 air_877f79706~ 2016-01-01
                                   2016-01-01
                                                                    2 Japanese food
## 5 air_db80363d3~ 2016-01-01
                                   2016-01-01
                                                                    5 Dining bar
## 6 air db80363d3~ 2016-01-02
                                   2016-01-01
                                                                    2 Dining bar
## # ... with 6 more variables: air_area_name <chr>, latitude <dbl>,
## # longitude <dbl>, calendar_date <date>, day_of_week <chr>, holiday_flg <dbl>
# Visualizing train, validation and test intervals
temp <- air visit data %>%
 rename(date = visit_date) %>%
 distinct(date) %>%
 mutate(dset = "train")
temp <- mutate(temp,dset = ifelse(date >= as.Date("2017-03-30"),"val","train"))
bar <- test %>%
  separate(id, c("temp", "bar", "date"), sep = "_") %>%
  mutate(date = ymd(date)) %>%
 distinct(date) %>%
  mutate(dset = "test")
temp <- temp %>%
  bind_rows(bar) %>%
  mutate(year = year(date))
year(temp$date) <- 2017</pre>
temp %>%
   filter(!is.na(date)) %>%
   mutate(year = fct_relevel(as.factor(year), c("2017","2016"))) %>%
   ggplot(aes(date, year, color = dset)) +
   geom_point(shape = "|", size = 10) +
   scale_x_date(date_labels = "%B", date_breaks = "1 month") +
```

```
#scale_y_reverse() +
theme(legend.position = "bottom", axis.text.x = element_text(angle=45, hjust=1, vjust=0.9)) +
labs(color = "Data set",title="Split of Data into Train, Validation and Test") +
guides(color = guide_legend(override.aes = list(size = 4, pch = 15)))
```

Split of Data into Train, Validation and Test



Exploration of Air Reservation Data

print(paste("Number of unique restaurants in the air reserve data ",length(unique(air_reservation\$air_s
[1] "Number of unique restaurants in the air reserve data 314"

print(paste("The air reserve data contains reservation from ",min(air_reservation\$reserve_datetime),"to
[1] "The air reserve data contains reservation from 2016-01-01 to 2017-04-22"

print(paste("In the above time period, the total number of reservations is ",length(air_reservation\$air_s))

[1] "In the above time period, the total number of reservations is 92378 for a total of 414,015 c

print(paste("Total number of areas in which reservations were made through air reserve",length(unique(a

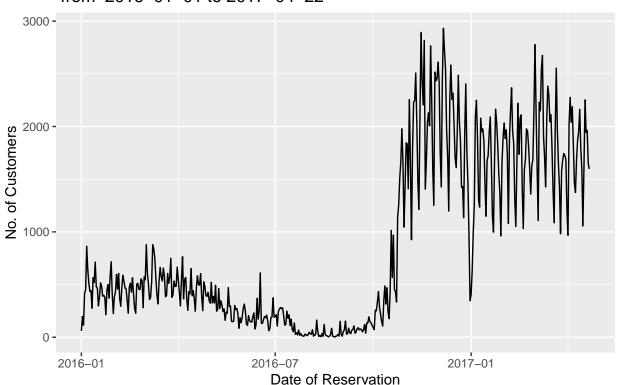
[1] "Total number of areas in which reservations were made through air reserve 71"

print(paste("Total number of Genres in which reservations were made through air reserve",length(unique(

[1] "Total number of Genres in which reservations were made through air reserve 14"

```
# Reservation Datetime vs Number of Customers
group_by(air_reservation,reserve_datetime) %>%
   summarise(count= sum(reserve_visitors)) %>%
   ggplot()+
   geom_line(mapping = aes(x=reserve_datetime,y=count))+
   labs(title="Number of Customers who have reserved a table \n from 2016-01-01 to 2017-04-22",y="No. or count)
```

Number of Customers who have reserved a table from 2016–01–01 to 2017–04–22



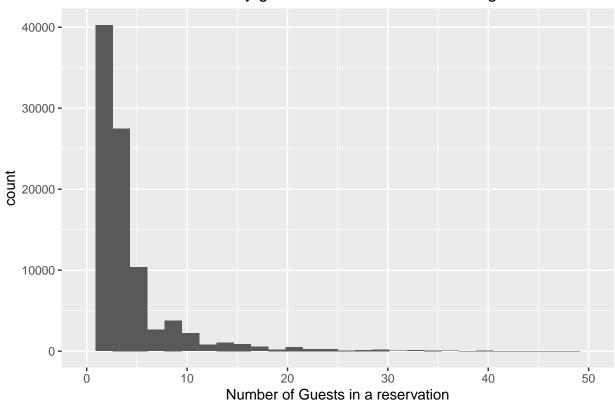
```
# Number of Visitors Per Reservation distribution
ggplot(air_reservation)+
  geom_histogram(mapping=aes(reserve_visitors))+
  xlim(0,50)+
  labs(title = "Distribution of How many guests a reservation was being made for", x="Number of Guests in
```

'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.

Warning: Removed 69 rows containing non-finite values (stat_bin).

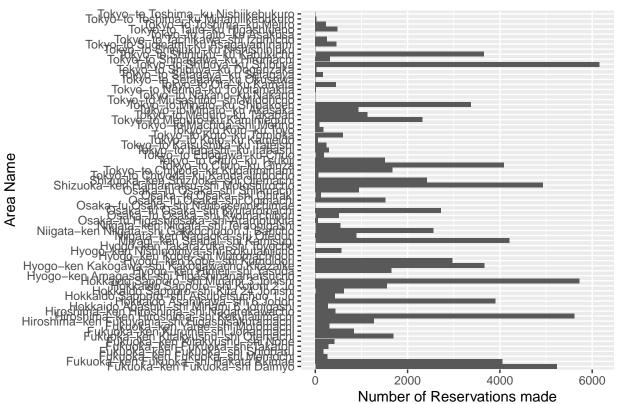
Warning: Removed 2 rows containing missing values (geom_bar).

Distribution of How many guests a reservation was being made for



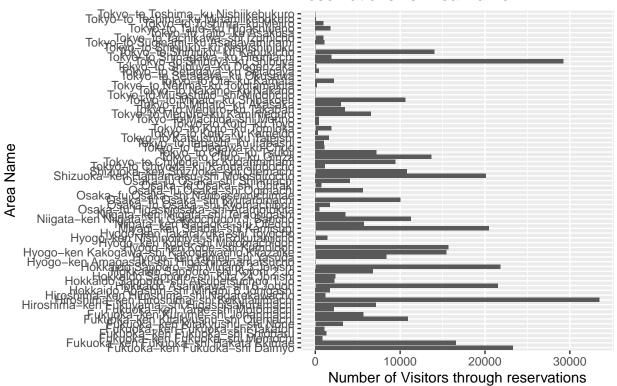
```
# Area vs vs Number of Reservations
group_by(air_reservation,air_area_name) %>%
ggplot()+
geom_bar(mapping = aes(x=air_area_name))+
coord_flip()+
labs(title="Distribution of reservations based on area name ",x="Area Name",y="Number of Reservations")
```

Distribution of reservations based on area



```
#Area vs number of People
group_by(air_reservation,air_area_name) %>%
   summarise(num= sum(reserve_visitors)) %>%
   ggplot()+
   geom_bar(mapping = aes(x=air_area_name,y=num),stat="identity")+
   labs(y="Number of Visitors through reservations",x = "Area Name",title = "Number of visitors who have coord_flip()
```

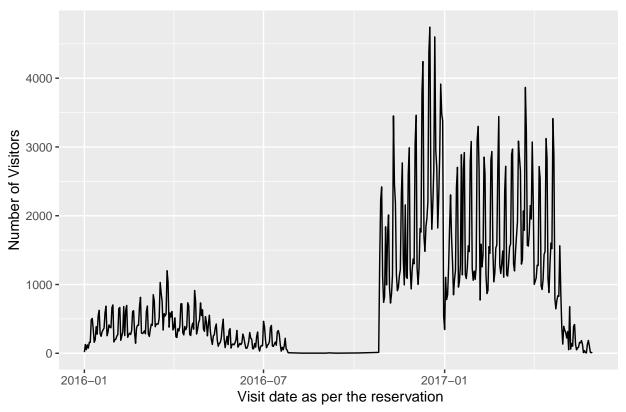
Number of visitors who have made reservations vs Area Name



```
# Reservation Visit Date vs Number of Customers

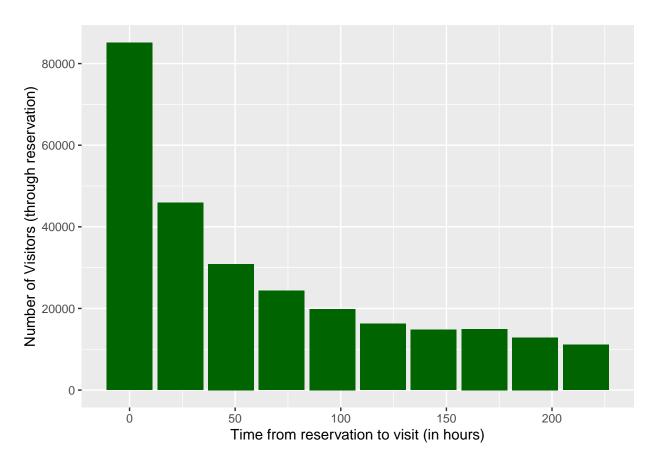
air_reservation %>%
  mutate(visit_datetime = as.Date(air_reservation$visit_datetime)) %>%
  group_by(visit_datetime) %>%
  summarise(all_visitors = sum(reserve_visitors)) %>%
  ggplot(aes(visit_datetime, all_visitors)) +
  geom_line() +
  labs(x = " Visit date as per the reservation",y="Number of Visitors",title="A sudden increase of the
```

A sudden increase of the Number of visitors is noticed

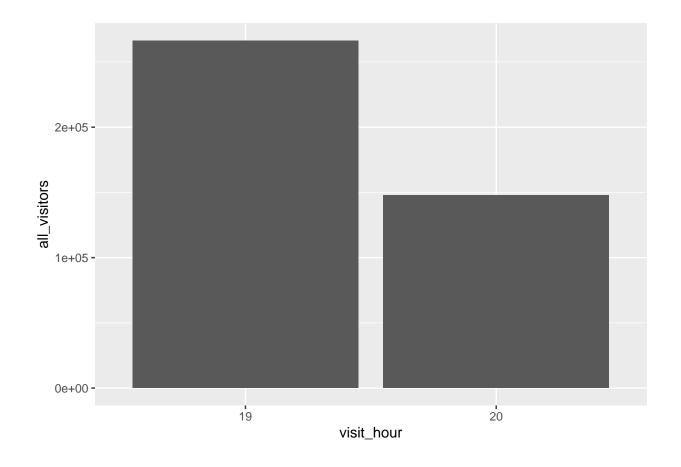


```
air_reservation %>%
  mutate(hourdiff = difftime(air_reservation$visit_datetime,air_reservation$reserve_datetime,unit="hour filter( hourdiff < 24*10) %>%
  group_by(hourdiff) %>%
  summarise(all_visitors = sum(reserve_visitors)) %>%
  ggplot(aes(hourdiff, all_visitors)) +
  geom_col(fill="darkgreen") +
  labs(x = "Time from reservation to visit (in hours)",y="Number of Visitors (through reservation)")
```

Don't know how to automatically pick scale for object of type difftime. Defaulting to continuous.



```
# Times for which the reservations are made
air_reserve_data %>%
  mutate(visit_hour = format(as.POSIXct(air_reserve_data$reserve_datetime), format = "%H")) %>%
  group_by(visit_hour) %>%
  summarise(all_visitors = sum(reserve_visitors)) %>%
  ggplot()+
  geom_col(aes(visit_hour,all_visitors))
```



Exploration of Air Visitation Data

```
print(paste("Number of air restaurants: ",length(unique(air_visited$air_store_id))))

## [1] "Number of air restaurants: 829"

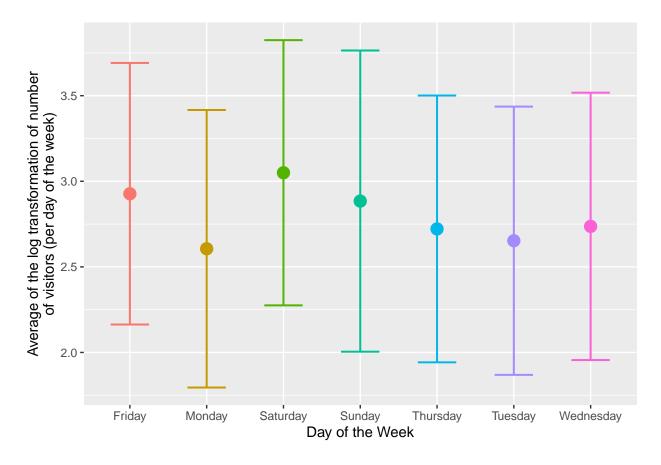
print(paste("The air reserve data contains visitations from ",min(air_visited$visit_date),"to",max(air_"## [1] "The air reserve data contains visitations from 2016-01-01 to 2017-04-22"

print(paste("In the above time period, the total number of visits are ",length(air_visited$air_store_id ## [1] "In the above time period, the total number of visits are 252108 for a total of 5,287,653 cus print(paste("Total number of areas in which visits were made",length(unique(air_visited$air_area_name)))

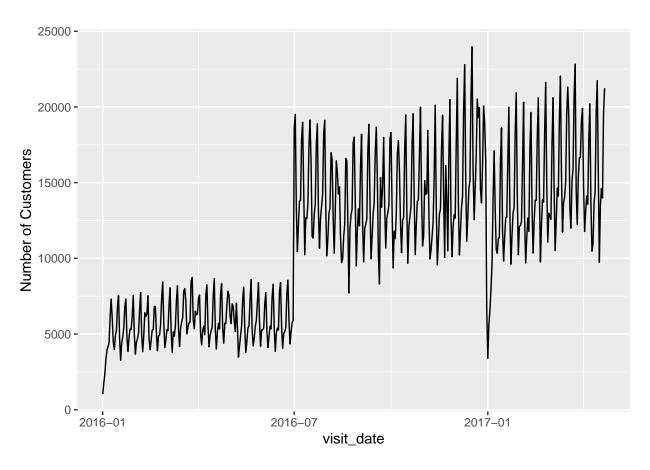
## [1] "Total number of areas in which visits were made 103"

print(paste("Total number of Genres visited by customers",length(unique(air_visited$air_genre_name))))

## [1] "Total number of Genres visited by customers 14"
```

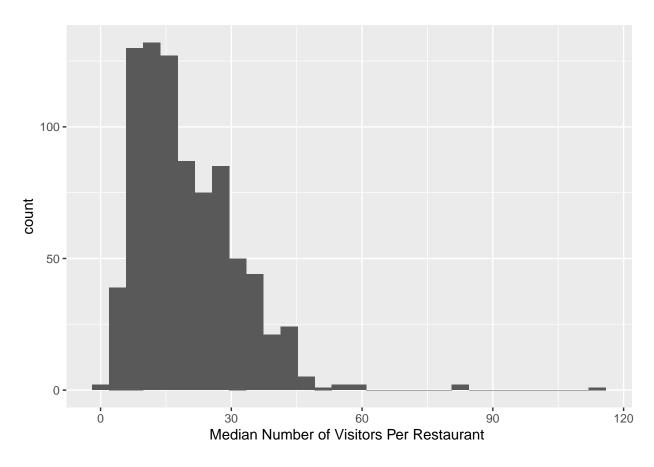


```
# Reservation Datetime vs Number of Customers
group_by(air_visited, visit_date) %>%
  summarise(count= sum(visitors)) %>%
  ggplot()+
  geom_line(mapping = aes(x=visit_date,y=count))+
  labs(y="Number of Customers")
```



```
# Median Number of Visitors Per Restaurant distribution
group_by(air_visited,air_store_id) %>%
  summarise(med = median(visitors)) %>%
  ggplot()+
  geom_histogram(mapping=aes(med))+
  labs(x="Median Number of Visitors Per Restaurant ")
```

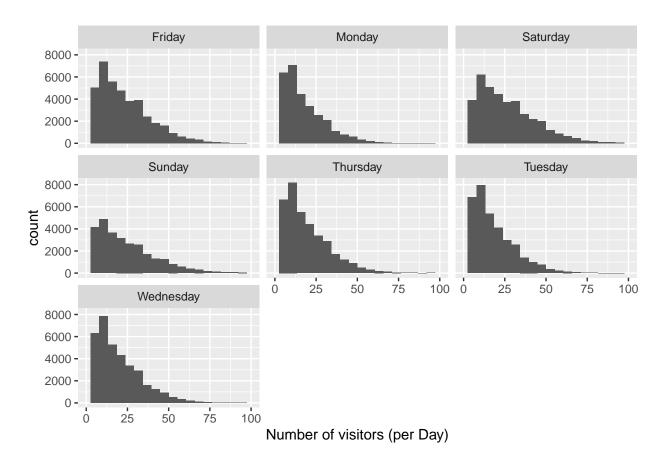
'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.



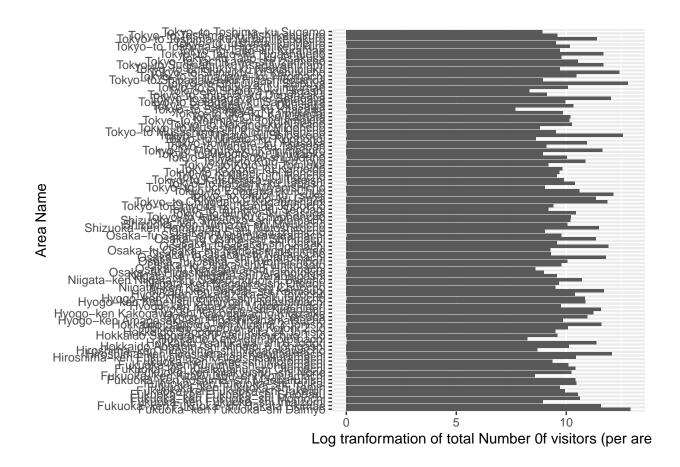
```
# Histogram of Number of Visitors faceted by Day of the Week
air_visited %>%
  ggplot(aes(visitors)) +
  geom_histogram( bins = 20)+
  facet_wrap(vars(day_of_week))+
  xlim(0,100)+
  labs(x="Number of visitors (per Day)")
```

Warning: Removed 509 rows containing non-finite values (stat_bin).

Warning: Removed 14 rows containing missing values (geom_bar).

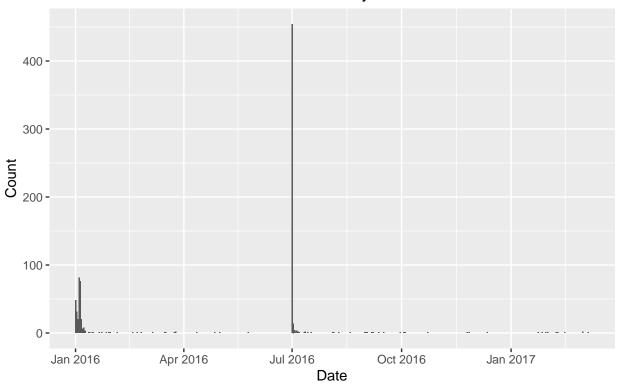


```
#Area vs number of People
group_by(air_visited,air_area_name) %>%
  summarise(num= sum(visitors)) %>%
  ggplot()+
  geom_bar(mapping = aes(x=air_area_name,y=log(num)),stat="identity")+
  coord_flip()+
  labs(y="Log tranformation of total Number Of visitors (per area)",x="Area Name")
```



```
# Distribution of the date of first entry of a restaurant
group_by(air_visited,air_store_id) %>%
   summarize(m = min(visit_date)) %>%
   ggplot()+
   geom_bar(mapping = aes(m))+
   labs(x="Date",y="Count",title = "Supports our assumption that a very significant \nNumber of restaurant
```

Supports our assumption that a very significant Number of restaurants were added in July 2016



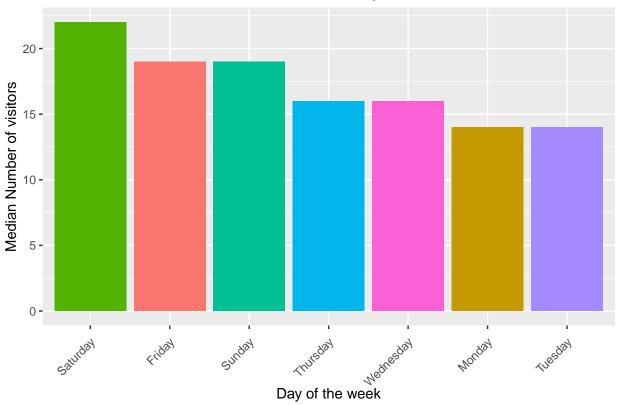
$\hbox{\it\# Explains the step structure in visit Date vs Number of customers}$

```
# Number of Visitors vs Day of the Week
temp <- air_visited
day_of_week <- factor(temp$day,levels = c("Monday","Tuesday","Wednesday","Thursday","Friday", "Saturday</pre>
```

Warning: Unknown or uninitialised column: 'day'.

```
temp %>%
  group_by(day_of_week) %>%
  summarise(pdv = median(visitors)) %>%
  ggplot(aes(x= reorder(day_of_week, -pdv), pdv,fill=day_of_week)) +
  geom_col() +
  theme(legend.position = "none", axis.text.x = element_text(angle=45, hjust=1, vjust=0.9)) +
  labs(x = "Day of the week", y = "Median Number of visitors",title="Median Number of Visitors increase")
```

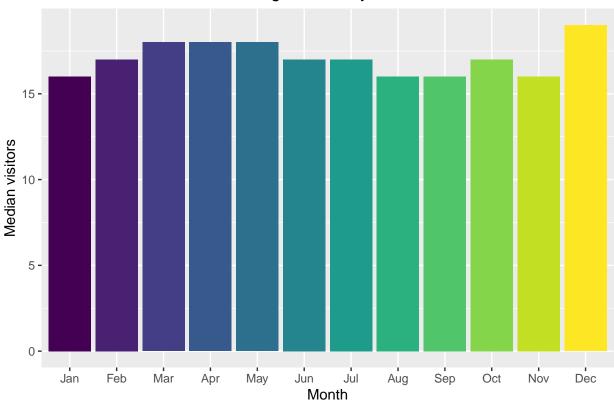
Median Number of Visitors increases during the weekend



```
#Number of Visitors vs Month of the Year

air_visit_data %>%
  mutate(month = month(visit_date, label = TRUE)) %>%
  group_by(month) %>%
  summarise(visits = median(visitors)) %>%
  ggplot(aes(month, visits, fill = month)) +
  geom_col() +
  theme(legend.position = "none") +
  labs(x = "Month", y = "Median visitors", title="Median visitors increase during the holiday months and
```

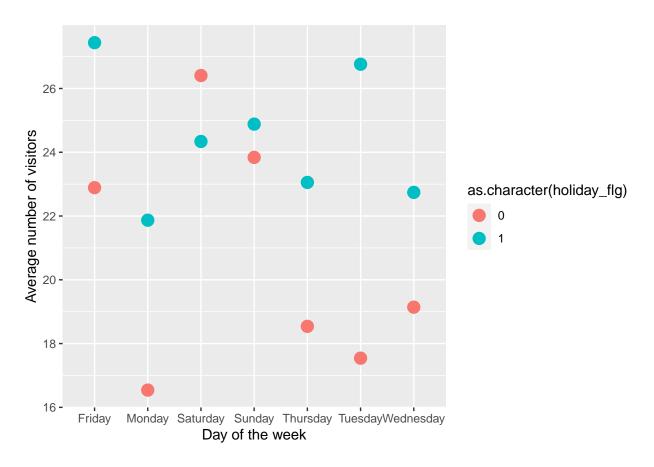
Median visitors increase during the holiday months and Summer



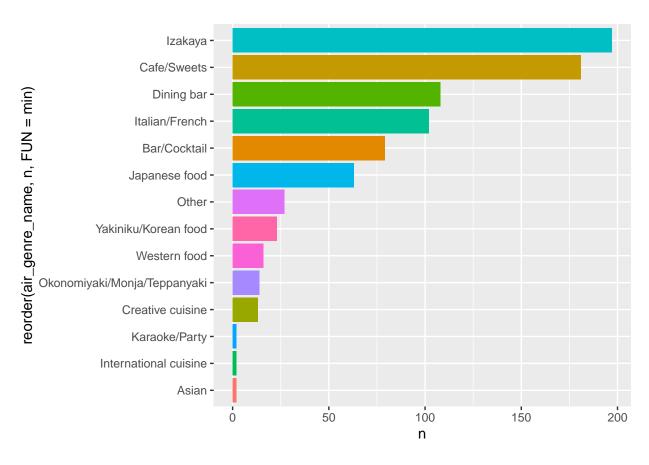
```
holidays <- read_csv('date_info.csv', col_types = cols())
temp <- air_visit_data %>%
  mutate(calendar_date = visit_date) %>%
  left_join(holidays, by = "calendar_date")

temp %>%
  mutate(wday = day_of_week) %>%
  group_by(wday, holiday_flg) %>%
  summarise(mean_visitors = mean(visitors)) %>%
  ggplot(aes(wday, mean_visitors, color = as.character(holiday_flg))) +
  geom_point(size = 4) +
  labs(y = "Average number of visitors",x="Day of the week")
```

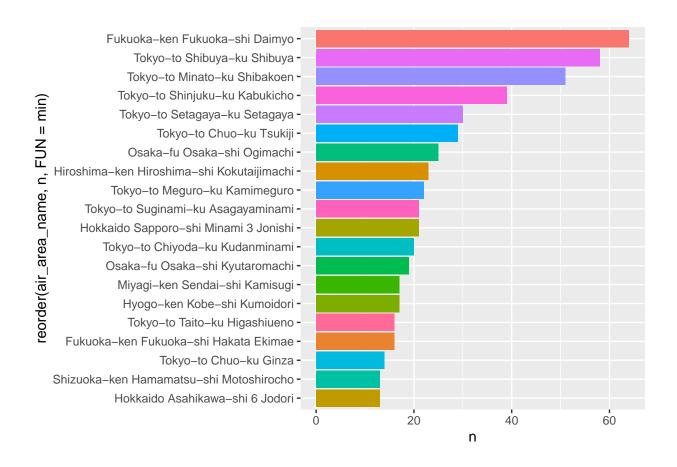
'summarise()' has grouped output by 'wday'. You can override using the '.groups' argument.



```
# Number of Restaurants per Genre
air_store_info %>%
  group_by(air_genre_name) %>%
  count() %>%
  ggplot()+
  geom_col(aes(reorder(air_genre_name,n,FUN = min),n,fill=air_genre_name))+
  coord_flip()+
  theme(legend.position = "none")
```



```
# Number of Restaurants per Area
# Only top 20 are displayed
air_store_info %>%
group_by(air_area_name) %>%
count() %>%
ungroup() %>%
top_n(20,n) %>%
ggplot()+
geom_col(aes(reorder(air_area_name,n,FUN = min),n,fill = air_area_name))+
coord_flip()+
theme(legend.position = "none")
```



HPG Data

```
print(paste("Number of unique restaurants in the hpg reserve data ",length(unique(hpg_store_info$hpg_s")
## [1] "Number of unique restaurants in the hpg reserve data 4690"

print(paste("The hpg reserve data contains reservation from ",min(hpg_reserve$reserve_datetime),"to",min(")
## [1] "The hpg reserve data contains reservation from 2016-01-01 to 2017-04-22 23:00:00"

print(paste("In the above time period, the total number of reservations is ",length(hpg_reserve$hpg_store, format(sum(hpg_reserve$reserve_visitors), big.mark=",",scientific=FALSE)," customers"))

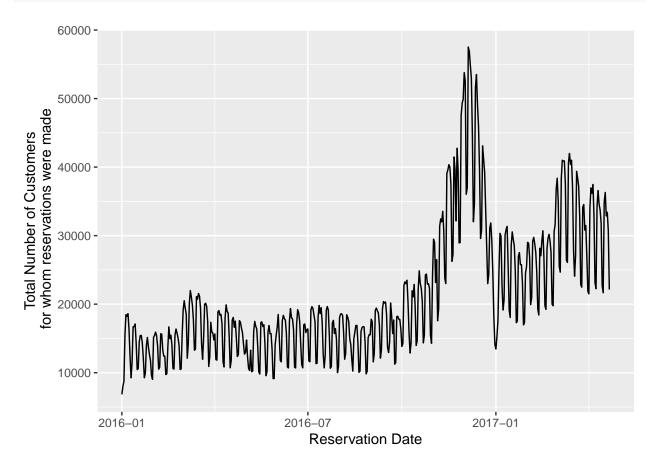
## [1] "In the above time period, the total number of reservations is 2000320 for a total of\n 10,149,000

print(paste("Total number of areas in which reservations were made through hpg reserve",length(unique())

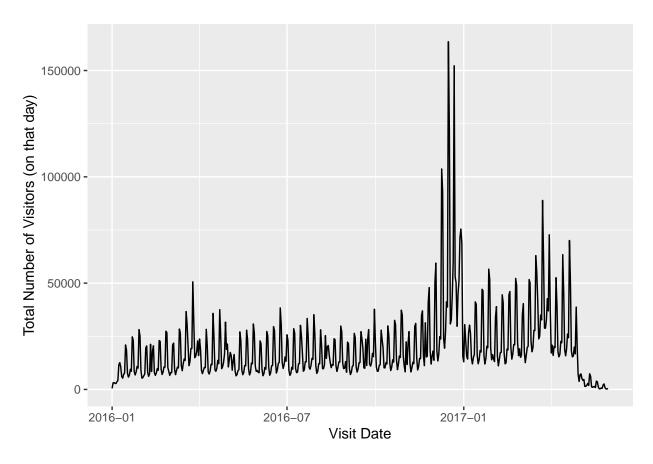
## [1] "Total number of areas in which reservations were made through hpg reserve 119"
```

[1] "Total number of Genres in which reservations were made through hpg reserve 34"

```
# Total Number of visitors vs Reservation Date
group_by(hpg_reserve,reserve_datetime) %>%
  mutate(reserve_datetime = as.Date(reserve_datetime)) %>%
  summarise(count= sum(reserve_visitors)) %>%
  ggplot()+
  geom_line(mapping = aes(x=reserve_datetime,y=count))+
  labs(x="Reservation Date",y="Total Number of Customers\n for whom reservations were made")
```

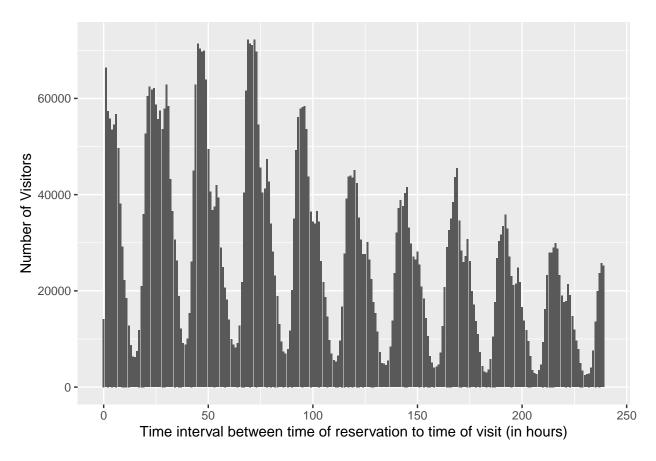


```
# Total Number of visitors vs Visit Date
group_by(hpg_reserve, visit_datetime) %>%
  mutate(visit_datetime = as.Date(visit_datetime)) %>%
  summarise(count= sum(reserve_visitors)) %>%
  ggplot()+
  geom_line(mapping = aes(x=visit_datetime, y=count))+
  labs(x="Visit Date", y="Total Number of Visitors (on that day)")
```

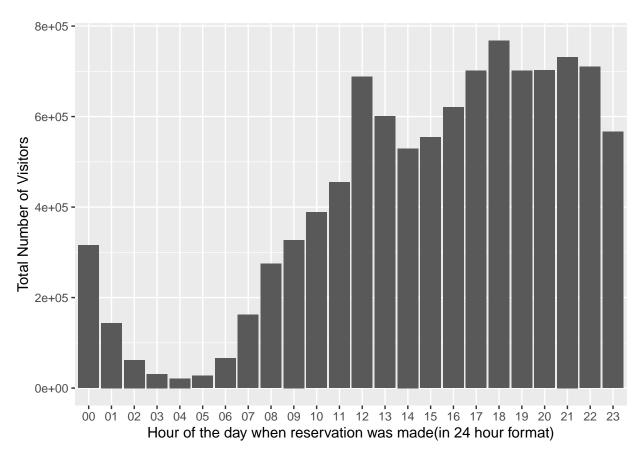


```
# Number of Visitors vs time difference from reservation to visitation
hpg_reserve %>%
  mutate(hourdiff = difftime(visit_datetime,reserve_datetime,unit="hours")) %>%
  filter( hourdiff < 24*10) %>%
  group_by(hourdiff) %>%
  summarise(all_visitors = sum(reserve_visitors)) %>%
  ggplot(aes(hourdiff, all_visitors)) +
  geom_col() +
  labs(x = "Time interval between time of reservation to time of visit (in hours)",y="Number of Visitor")
```

Don't know how to automatically pick scale for object of type difftime. Defaulting to continuous.

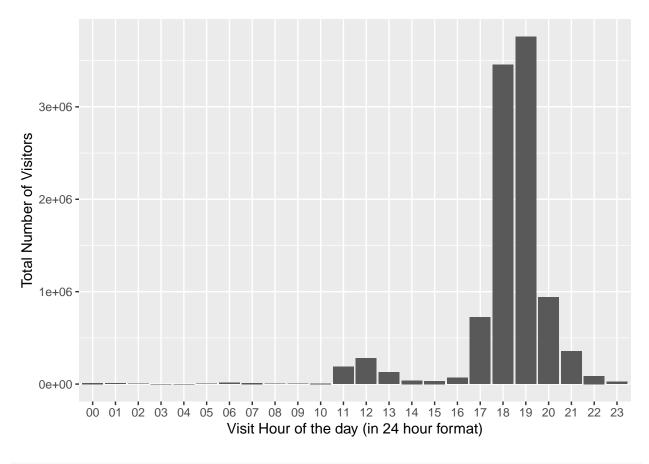


```
# Time of Day During which reservations are made distribution
hpg_reserve %>%
  mutate(visit_hour = format(as.POSIXct(hpg_reserve$reserve_datetime), format = "%H")) %>%
  group_by(visit_hour) %>%
  summarise(all_visitors = sum(reserve_visitors)) %>%
  ggplot()+
  geom_col(aes(visit_hour,all_visitors))+
  labs(x="Hour of the day when reservation was made(in 24 hour format)",y="Total Number of Visitors")
```

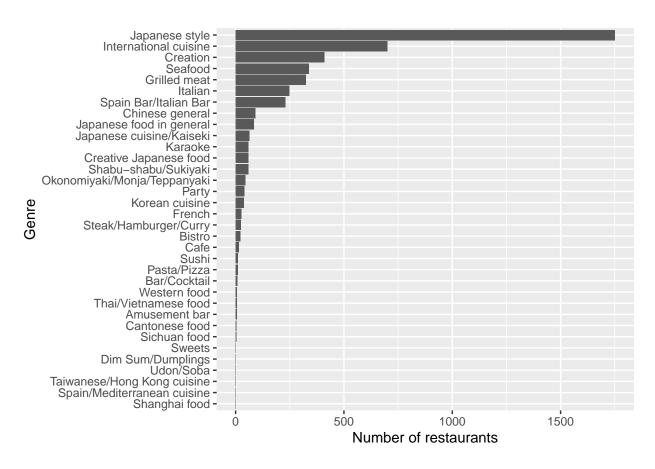


```
## Time of the Day for visit for which reservations are made distribution

hpg_reserve %>%
  mutate(visit_hour = format(as.POSIXct(hpg_reserve$visit_datetime), format = "%H")) %>%
  group_by(visit_hour) %>%
  summarise(all_visitors = sum(reserve_visitors)) %>%
  ggplot()+
  geom_col(aes(visit_hour,all_visitors))+
  labs(x="Visit Hour of the day (in 24 hour format)",y="Total Number of Visitors")
```



```
hpg_store_info %>%
  group_by(hpg_genre_name) %>%
  count() %>%
  ggplot()+
  geom_col(aes(reorder(hpg_genre_name,n,FUN = min),n))+
  coord_flip()+
  labs(x="Genre",y="Number of restaurants")
```



```
# Top 25 area vs Number of restaurants
hpg_store_info %>%
  group_by(hpg_area_name) %>%
  count() %>%
  ungroup() %>%
  top_n(25,n) %>%
  ggplot()+
  geom_col(aes(reorder(hpg_area_name,n,FUN = min),n))+
  coord_flip()+
  labs(x="Area Name",y="Number of Restaurants")
```



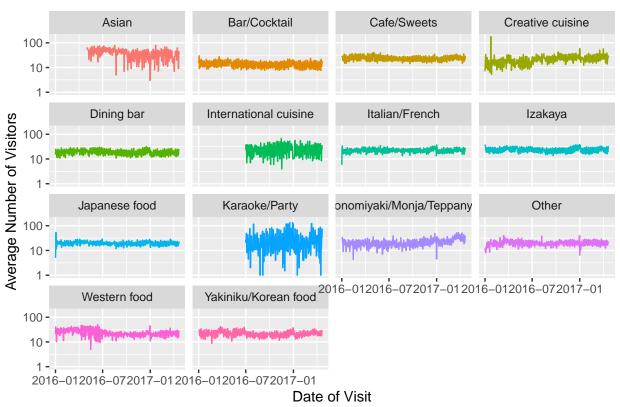
Exploring Relations between Features

Visitors per Genre

```
# Distribution of Visitors accross Genre
air_visited %>%
  group_by(visit_date,air_genre_name) %>%
  summarise(avg_visitors = mean(visitors)) %>%
  ungroup() %>%
  ggplot()+
  geom_line(mapping = aes(visit_date,avg_visitors,color=air_genre_name))+
  facet_wrap(vars(air_genre_name))+
  scale_y_log10()+
  theme(legend.position = "none")+
  labs(x="Date of Visit",y="Average Number of Visitors",title = "Distribution of Visitors accross Genre")
```

'summarise()' has grouped output by 'visit_date'. You can override using the '.groups' argument.

Distribution of Visitors accross Genre



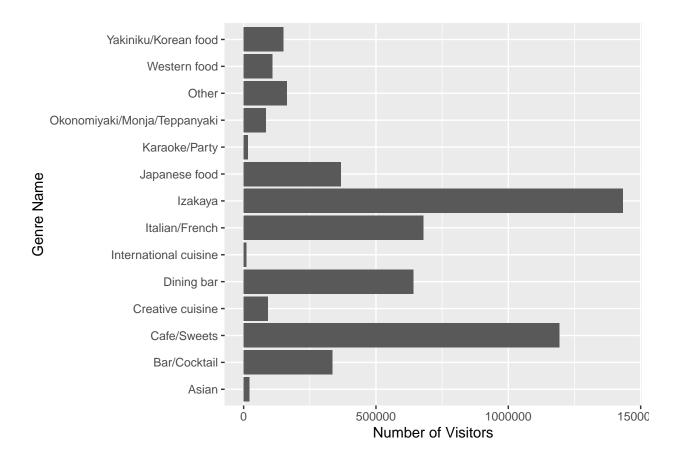
```
# Number of Visitors vs Genre
air_visited %>%
  group_by(day_of_week,air_genre_name) %>%
  summarise(avg_visitors = mean(visitors)) %>%
  ggplot()+
  geom_point(mapping=aes(air_genre_name,avg_visitors,color = day_of_week),size=3)+
  coord_flip()+
  labs(x="Genre Name",y="Average Number of Visitors")+
  guides(color=guide_legend(title="Day of the Week"))
```

'summarise()' has grouped output by 'day_of_week'. You can override using the '.groups' argument.



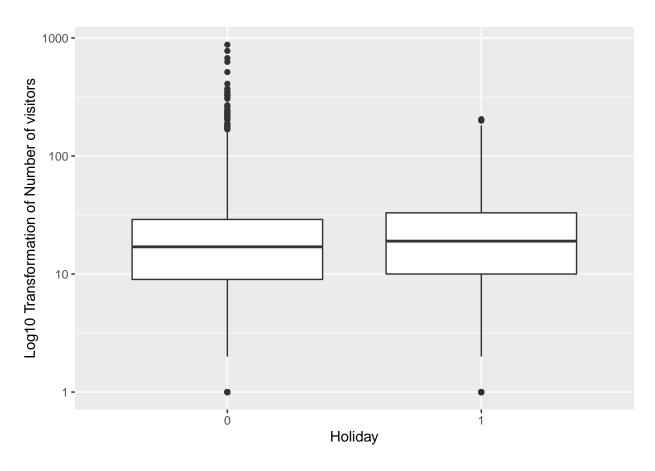
```
# Genre vs Number of Visitors for Air store data
air_visited %>%
  ggplot()+
  geom_histogram(aes(visitors,air_genre_name),stat="identity")+
  labs(y="Genre Name",x="Number of Visitors")
```

Warning: Ignoring unknown parameters: binwidth, bins, pad



Impact of Holidays

```
air_visited %>%
  ggplot()+
  geom_boxplot(aes(as.character(holiday_flg), visitors))+
  scale_y_log10()+
  labs(x="Holiday",y="Log10 Transformation of Number of visitors")
```



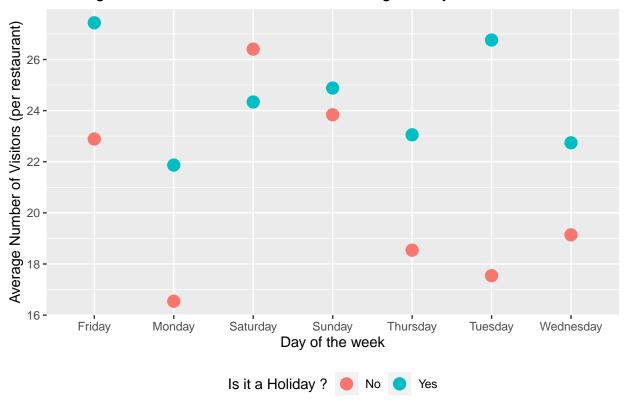
```
p <- air_visited %>%
    group_by(day_of_week,holiday_flg) %>%
    summarise(avg_visitors = mean(visitors)) %>%
    ggplot()+
    geom_point(aes(day_of_week,avg_visitors,color = as.character(holiday_flg)),size= 4)+
    labs(y="Average Number of Visitors (per restaurant)",x="Day of the week",title=" Average Number of vi

## 'summarise()' has grouped output by 'day_of_week'. You can override using the '.groups' argument.

p <- p + guides(color=guide_legend(title="Is it a Holiday ?")) + theme(legend.position="bottom")

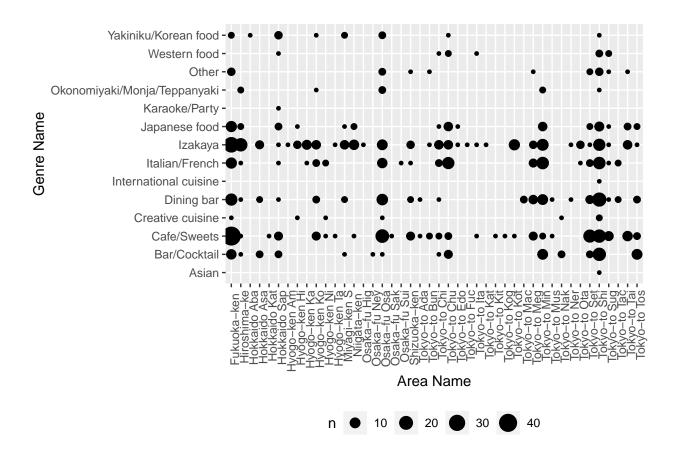
p + scale_color_discrete(labels = c("No","Yes"))</pre>
```

Average Number of visitors increases during holidays

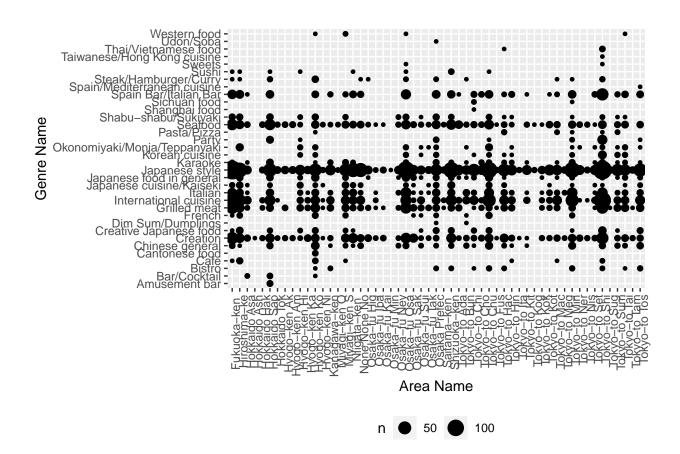


Restaurants per Area and the effect on number of visitor

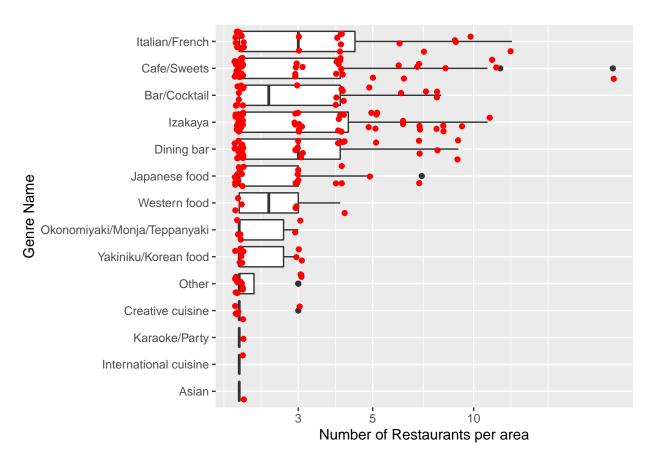
```
# For Air Store Data
air_store_info %>%
  mutate(air_area_name = str_sub(air_area_name, 1, 12)) %>%
  group_by(air_genre_name,air_area_name) %>%
  ggplot()+
  geom_count(aes(air_area_name,air_genre_name))+
  theme(legend.position = "bottom", axis.text.x = element_text(angle=90, hjust=1, vjust=0.9))+
  labs(x="Area Name",y="Genre Name")
```



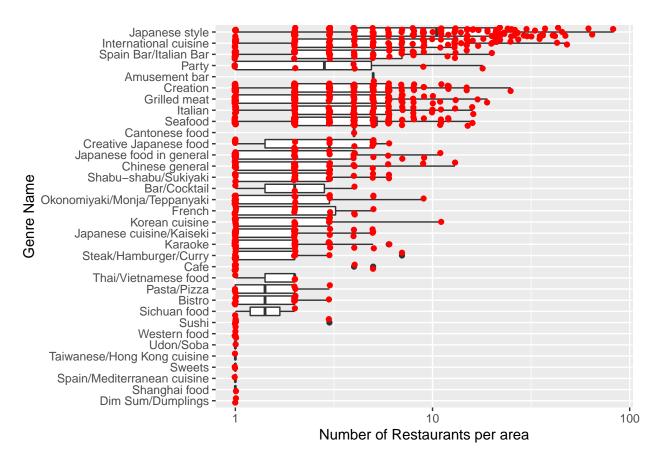
```
# For HPG Data
hpg_store_info %>%
mutate(hpg_area_name = str_sub(hpg_area_name, 1, 12)) %>%
group_by(hpg_genre_name,hpg_area_name) %>%
ggplot()+
geom_count(aes(hpg_area_name,hpg_genre_name))+
theme(legend.position = "bottom", axis.text.x = element_text(angle=90, hjust=1, vjust=0.9))+
labs(x="Area Name",y="Genre Name")
```



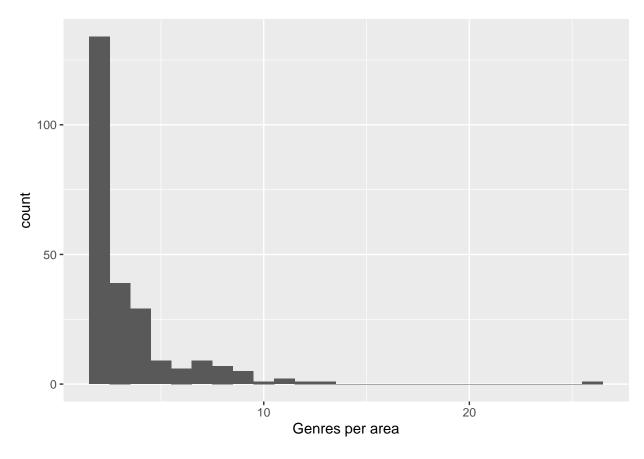
```
# For Air Store
air_store_info %>%
  group_by(air_genre_name,air_area_name) %>%
  count() %>%
  ggplot() +
  geom_boxplot(aes(reorder(air_genre_name,n,FUN=mean),n))+
  geom_jitter(aes(reorder(air_genre_name,n,FUN=mean),n),color= "red")+
  scale_y_log10()+
  coord_flip()+
  labs(x="Genre Name",y="Number of Restaurants per area")
```



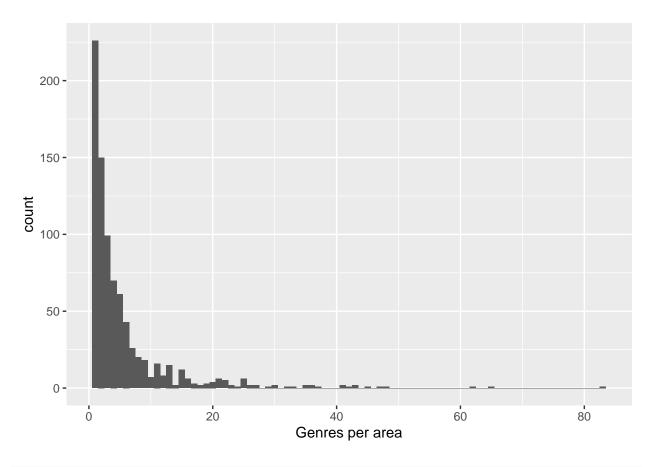
```
# For HPG
hpg_store_info %>%
group_by(hpg_genre_name,hpg_area_name) %>%
count() %>%
ggplot() +
geom_boxplot(aes(reorder(hpg_genre_name,n,FUN=mean),n))+
geom_jitter(aes(reorder(hpg_genre_name,n,FUN=mean),n),color= "red")+
scale_y_log10()+
coord_flip()+
labs(x="Genre Name",y="Number of Restaurants per area")
```



```
# For Air Store
air_store_info %>%
  group_by(air_genre_name, air_area_name) %>%
  count() %>%
  ggplot(aes(n)) +
  geom_histogram(binwidth = 1) +
  labs(x = "Genres per area")
```



```
# For HPG
hpg_store_info %>%
group_by(hpg_genre_name, hpg_area_name) %>%
count() %>%
ggplot(aes(n)) +
geom_histogram(binwidth = 1) +
labs(x = "Genres per area")
```



```
library(modelr)
m <- lm(visitors~.,data=air_visited)
step(m)</pre>
```

```
## Start: AIC=1271380
## visitors ~ air_store_id + visit_date + air_genre_name + air_area_name +
##
       latitude + longitude + calendar_date + day_of_week + holiday_flg +
##
       reserve_datetime
##
##
## Step: AIC=1271380
## visitors ~ air_store_id + visit_date + air_genre_name + air_area_name +
##
       latitude + longitude + calendar_date + day_of_week + holiday_flg
##
##
## Step: AIC=1271380
## visitors ~ air_store_id + visit_date + air_genre_name + air_area_name +
##
       latitude + longitude + day_of_week + holiday_flg
##
##
## Step: AIC=1271380
## visitors ~ air_store_id + visit_date + air_genre_name + latitude +
##
       longitude + day_of_week + holiday_flg
```

```
##
##
## Step: AIC=1271380
  visitors ~ air_store_id + visit_date + latitude + longitude +
##
       day_of_week + holiday_flg
##
                   Df Sum of Sa
                                      RSS
                                              AIC
## - latitude
                             77 38801038 1271379
## <none>
                                 38800961 1271380
## - longitude
                    1
                            356 38801316 1271381
## - visit_date
                    1
                           5570 38806530 1271414
## - holiday_flg
                    1
                         161334 38962295 1272424
                    6
                        2854655 41655616 1289266
## - day_of_week
## - air_store_id 828
                      29156754 67957715 1411016
## Step: AIC=1271379
  visitors ~ air_store_id + visit_date + longitude + day_of_week +
       holiday_flg
##
##
                   Df Sum of Sq
                                      RSS
## <none>
                                 38801038 1271379
## - longitude
                            324 38801361 1271379
## - visit_date
                    1
                           5573 38806611 1271413
## - holiday flg
                    1
                         161328 38962366 1272423
## - day_of_week
                    6
                        2854625 41655663 1289264
## - air_store_id 828 29157801 67958838 1411018
##
## Call:
  lm(formula = visitors ~ air_store_id + visit_date + longitude +
##
       day_of_week + holiday_flg, data = air_visited)
##
##
  Coefficients:
##
                         (Intercept)
                                      air_store_idair_0164b9927d20bcc3
##
                           2.941e+11
                                                             -4.201e+06
  air_store_idair_0241aa3964b7f861
                                      air_store_idair_0328696196e46f18
##
                           5.557e+07
                                                             -8.894e+09
                                      air_store_idair_036d4f1ee7285390
  air_store_idair_034a3d5b40d5b1b1
##
                         -9.011e+09
                                                             -9.247e+09
##
  air_store_idair_0382c794b73b51ad
                                      air_store_idair_03963426c9312048
##
                         -1.718e+08
                                                             -1.536e+10
## air_store_idair_04341b588bde96cd
                                      air_store_idair_049f6d5b402a31b2
##
                         -2.146e+08
                                                             -1.970e+10
## air_store_idair_04cae7c1bc9b2a0b
                                      air_store_idair_0585011fa179bcce
##
                           3.257e+09
                                                             -1.970e+10
  air_store_idair_05c325d315cc17f5
                                      air_store_idair_0647f17b4dc041c8
##
                         -1.970e+10
                                                             -3.750e+08
## air_store_idair_064e203265ee5753
                                      air_store_idair_066f0221b8a4d533
                         -9.286e+09
                                                             -1.966e+10
## air_store_idair_06f95ac5c33aca10
                                      air_store_idair_0728814bd98f7367
##
                           1.343e+08
                                                             -2.466e+08
## air_store_idair_0768ab3910f7967f
                                      air_store_idair_07b314d83059c4d2
                         -1.167e+08
                                                             -8.932e+09
## air_store_idair_07bb665f9cdfbdfb air_store_idair_082908692355165e
```

```
##
                          -8.932e+09
                                                             -1.053e+08
  air store idair 083ddc520ea47e1e
                                      air store idair 0845d8395f30c6bb
##
                          -2.012e+10
                                                             -7.277e+08
   air_store_idair_084d98859256acf0
                                      air_store_idair_0867f7bebad6a649
##
##
                           9.133e+07
                                                             -1.536e+10
##
  air store idair 08ba8cd01b3ba010
                                      air store idair 08cb3c4ee6cd6a22
##
                           2.351e+09
                                                             -1.034e+10
##
  air store idair 08ef81d5b7a0d13f
                                      air store idair 08f994758a1e76d4
##
                           3.845e+07
                                                             -1.043e+08
##
   air_store_idair_09040f6df960ddb8
                                      air_store_idair_0919d54f0c9a24b8
                          -1.773e+08
                                                             -4.201e+06
   air_store_idair_09661c0f3259cc04
                                      air_store_idair_09a845d5b5944b01
##
                          -7.786e+07
                                                             -1.946e+10
                                      air_store_idair_0a74a5408a0b8642
##
   air_store_idair_09fd1f5c58583141
##
                          -8.932e+09
                                                              3.341e+09
   air_store_idair_0b184ec04c741a6a
                                      air_store_idair_0b1e72d2d4422b20
##
                           3.845e+07
                                                             -1.510e+09
                                      air_store_idair_0e1eae99b8723bc1
   air store idair 0b9038300f8b2b50
##
                          -2.112e+08
                                                              1.343e+08
##
   air store idair 0e7c11b9abc50163
                                      air store idair 0ead98dd07e7a82a
##
                          -9.795e+07
                                                             -1.970e+10
  air store idair 0f0cdeee6c9bf3d7
                                      air store idair 0f2f96335f274801
##
                          -9.589e+09
                                                              1.219e+07
                                      air_store_idair_1033310359ceeac1
  air store idair 0f60e1576a7d397d
##
##
                          -2.012e+10
                                                              9.133e+07
   air_store_idair_10393f12e9069760
                                      air store idair 105a7954e32dba9b
##
                                                             -1.970e+10
                          -7.786e+07
##
   air_store_idair_10713fbf3071c361
                                      air_store_idair_10bbe8acd943d8f6
##
                          -1.043e+08
                                                             -1.043e+08
   air_store_idair_12c4fb7a423df20d
                                      air_store_idair_138ee734ac79ff90
##
                          -1.043e+08
                                                             -1.963e+10
##
   air_store_idair_138ff410757b845f
                                      air_store_idair_1408dd53f31a8a65
##
                          -4.927e+07
                                                              5.496e+09
   air_store_idair_142e78ba7001da9c
                                      air_store_idair_1509881b22965b34
##
                                                              3.845e+07
                          -9.286e+09
   air_store_idair_152c1f08d7d20e07
                                      air_store_idair_15ae33469e9ea2dd
##
##
                          -1.534e+10
                                                             -1.053e+08
  air_store_idair_15e6e15c7ea2c162
                                      air_store_idair_16179d43b6ee5fd8
##
##
                          -3.540e+07
                                                             -1.167e+08
##
   air_store_idair_1653a6c513865af3
                                      air_store_idair_168441ada3e878e1
                           9.513e+09
                                                             -9.446e+09
   air store idair 16c4cfddeb2cf69b
                                      air store idair 16cf0a73233896de
##
                          -8.932e+09
                                                             -1.970e+10
##
   air_store_idair_1707a3f18bb0da07
                                      air_store_idair_17a6ab40f97fd4d8
                          -1.536e+10
                                                              9.072e+07
                                      air_store_idair_1979eaff8189d086
   air_store_idair_17bed6dbf7c8b0fc
##
                          -2.514e+09
                                                             -7.277e+08
   air_store_idair_1ab60ce33bfed8a8
                                      air_store_idair_1ae94f514a0bce13
##
                          -7.786e+07
                                                             -1.970e+10
##
   air_store_idair_1ba4e87ef7422183
                                      air_store_idair_1c0b150f9e696a5f
##
                           2.417e+08
                                                             -1.043e+08
##
   air store idair 1c95a84924d72500
                                      air_store_idair_1d1e8860ae04f8e9
##
                          -8.740e+09
                                                             -1.053e+08
## air store idair 1d25ca6c76df48b4 air store idair 1d3f797dd1f7cf1c
```

```
##
                          -8.932e+09
                                                             -2.112e+08
   air store idair 1dd8f6f47480d1a2
                                      air store idair 1dea9815ccd36620
##
                          -2.112e+08
                                                             -1.970e+10
   air_store_idair_1e23210b584540e7
                                      air_store_idair_1e665503b8474c55
##
##
                          -1.053e+08
                                                             -1.970e+10
   air_store_idair_1eeff462acb24fb7
                                      air_store_idair_1f1390a8be2272b3
##
##
                          -1.053e+08
                                                             -1.053e+08
##
   air store idair 1f34e9beded2231a
                                      air store idair 1f7f8fa557bc0d55
##
                           3.368e+09
                                                             -8.683e+09
##
   air_store_idair_2009041dbf9264de
                                      air_store_idair_20619d21192aa571
                          -1.053e+08
                                                             -8.932e+09
   air_store_idair_20add8092c9bb51d
                                      air_store_idair_2195cd5025a98033
##
                          -4.268e+09
                                                              1.071e+08
##
   air_store_idair_21f5052d5330528d
                                      air_store_idair_220cba70c890b119
##
                          -1.034e+10
                                                             -1.053e+08
   air_store_idair_22682e965418936f
                                      air_store_idair_228f10bec0bda9c8
                          -1.043e+08
##
                                                             -8.917e+09
                                      air_store_idair_232dcee6f7c51d37
   air store idair 229d7e508d9f1b5e
##
                          -2.466e+08
                                                             -1.434e+08
##
   air store idair 234d3dbf7f3d5a50
                                      air store idair 23e1b11aee2a1407
##
                          -6.630e+08
                                                              5.557e+07
   air store idair 23ee674e91469086
                                      air store idair 24b9b2a020826ede
##
                          -5.275e+08
                                                             -1.869e+10
                                      air store idair 2545dd3a00f265e2
##
   air store idair 24e8414b9b07decb
##
                          -8.958e+07
                                                             -6.389e+07
   air store idair 256be208a979e023
                                      air_store_idair_2570ccb93badde68
##
                          -1.053e+08
                                                             -1.053e+08
##
   air_store_idair_258ad2619d7bff9a
                                      air_store_idair_258dc112912fc458
##
                           1.343e+08
                                                              2.417e+08
   air_store_idair_25c583983246b7b0
                                      air_store_idair_25d8e5cc57dd87d9
##
                          -1.970e+10
                                                             -1.043e+08
##
   air_store_idair_25e9888d30b386df
                                      air_store_idair_2634e41551e9807d
##
                          -5.838e+07
                                                             -1.053e+08
   air_store_idair_26c5bbeb7bb82bf1
                                      air_store_idair_26f10355d9b4d82a
##
                          -4.234e+07
                                                             -8.962e+09
                                      air_store_idair_275732a5db46f4d3
   air store idair 2703dcb33192b181
##
##
                           1.343e+08
                                                             -1.718e+08
   air store idair 27e991812b0d9c92
                                      air_store_idair_28064154614b2e6c
##
##
                          -1.970e+10
                                                             -1.053e+08
   air_store_idair_287d2de7d3c93406
##
                                      air_store_idair_28a9fa1ec0839375
                          -7.921e+07
                                                             -1.536e+10
   air store idair 28dbe91c4c9656be
                                      air store idair 290e7a57b390f78e
##
                          -1.067e+10
                                                             -4.201e+06
##
   air_store_idair_298513175efdf261
                                      air_store_idair_2a184c1745274b2b
                          -1.975e+10
                                                              2.351e+09
                                      air_store_idair_2a3743e37aab04b4
   air_store_idair_2a24aec099333f39
##
                          -9.011e+09
                                                             -8.932e+09
   air_store_idair_2a485b92210c98b5
                                      air_store_idair_2a7f14da7fe0f699
                          -1.536e+10
                                                             -1.167e + 08
##
   air_store_idair_2aab19554f91ff82
                                      air_store_idair_2ac361b97630e2df
##
                           3.627e+07
                                                             -1.043e+08
   air_store_idair_2b8b29ddfd35018e
                                      air_store_idair_2b9bc9f5f5168ea1
##
                          -1.536e+10
                                                              2.351e+09
## air store idair 2bffb19a24d11729 air store idair 2c505f9ad67d4635
```

```
##
                          -8.932e+09
                                                             -1.043e+08
   air_store_idair_2c6c79d597e48096
                                      air_store_idair_2c6fef1ce0e13a5a
                                                              3.341e+09
##
                          -4.201e+06
   air_store_idair_2c989829acbd1c6b
                                      air_store_idair_2cee51fa6fdf6c0d
##
##
                           1.690e+00
                                                              -1.043e+08
                                      air_store_idair_2d78d9a1f4dd02ca
##
   air store idair 2d3afcb91762fe01
##
                          -1.966e+10
                                                              5.557e+07
##
   air store idair 2e7cb1f1a2a9cd6a
                                      air store idair 2f8ced25216df926
##
                          -4.201e+06
                                                             -4.201e+06
##
   air_store_idair_2fc149abe33adcb4
                                      air_store_idair_2fc478dc9f0a6b31
                          -9.286e+09
                                                              3.341e+09
   air_store_idair_2fed81034f8834e5
                                      air_store_idair_303bac187b53083a
##
##
                                                             -1.975e+10
                          -1.167e+08
                                      air_store_idair_3155ee23d92202da
##
   air_store_idair_310e467e6e625004
##
                           3.845e+07
                                                             -1.510e+09
   air_store_idair_31c753b48a657b6c
                                      air_store_idair_32460819c7600037
##
                                                             -8.982e+09
                          -1.167e+08
   air_store_idair_324f7c39a8410e7c
                                      air_store_idair_326ca454ef3558bc
##
                          -1.034e+10
                                                             -2.884e+09
##
   air store idair 32b02ba5dc2027f4
                                      air store idair 32c61b620a766138
##
                           1.219e+07
                                                              3.341e+09
   air store idair 32f5d7cd696e3c4a
                                      air store idair 33b01025210d6007
##
                          -8.932e+09
                                                             -8.740e+09
##
   air store idair 3440e0ea1b70a99b
                                      air store idair 346ade7d29230634
                          -8.932e+09
##
                                                             -1.534e+10
   air_store_idair_347be2c4feeb408b
##
                                      air_store_idair_349278fa964bb12f
##
                           2.417e+08
                                                             -1.970e+10
##
   air_store_idair_3525f11ef0bf0c35
                                      air_store_idair_35512c42db0868da
##
                          -8.982e+09
                                                             -3.943e+08
   air_store_idair_3561fd1c0bce6a95
                                      air_store_idair_35c4732dcbfe31be
##
                          -1.177e+08
                                                             -9.589e+09
##
   air_store_idair_36429b5ca4407b3e
                                      air_store_idair_36bcf77d3382d36e
##
                           3.341e+09
                                                              4.866e+00
##
   air_store_idair_37189c92b6c761ec
                                      air_store_idair_375a5241615b5e22
                           5.496e+09
                                                              2.351e+09
   air_store_idair_382f5ace4e2247b8
                                      air_store_idair_383f5b2f8d345a49
##
##
                          -1.345e+10
                                                             -2.112e+08
   air_store_idair_38746ffe9aa20c7e
                                      air_store_idair_396166d47733d5c9
##
                                                              3.623e+09
##
                          -1.970e+10
##
   air_store_idair_396942e6423a2145
                                      air_store_idair_397d3f32a7196aa2
                          -4.735e+07
                                                             -4.927e+07
   air store idair 3980af67be35afdb
                                      air store idair 3982a2c4ea2ed431
##
##
                          -3.540e+07
                                                             -1.979e+10
##
   air_store_idair_399904bdb7685ca0
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##
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##
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##
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##
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##
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##
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##
##
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##
##
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## air store idair 7f9e15afafcf4c75 air store idair 7fbf7649eb13ad9b
```

```
##
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##
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##
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##
   air_store_idair_cb25551c4cd8d9f3
                                      air_store_idair_cb7467aed805e7fe
##
                           3.845e+07
                                                             -1.970e+10
##
   air store idair cb935ff8610ba3d3
                                      air_store_idair_cbe139af83feb388
##
                          -2.112e+08
                                                             -9.589e+09
## air store idair cbe867adcf44e14f air store idair cc1a0e985ce63711
```

```
##
                          -1.892e+10
                                                             -9.150e+09
   air_store_idair_cc35590cd1da8554
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##
                           3.627e+07
                                                             -1.053e+08
   air_store_idair_cd4b301d5d3918d8
                                      air_store_idair_cd5f54969be9ed08
##
##
                          -1.871e+01
                                                             -1.043e+08
   air_store_idair_ced6297e5bdf5130
                                      air_store_idair_cf2229e64408d9fe
##
##
                          -1.759e+08
                                                             -8.932e+09
##
   air store idair cf22e368c1a71d53
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##
                           3.257e+09
                                                              2.351e+09
##
   air_store_idair_cfcc94797d2b5d3d
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                          -1.645e+09
                                                             -7.786e+07
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##
   air_store_idair_d00161e19f08290b
##
                          -1.053e+08
                                                             -8.917e+09
##
   air_store_idair_d07e57b21109304a
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##
                          -1.043e+08
                                                             -1.053e+08
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                                      air_store_idair_d0e8a085d8dc83aa
##
                                                             -9.446e+09
                           5.557e+07
                                      air_store_idair_d1418d6fd6d634f2
   air store idair d138b593ebda55cc
##
                          -1.970e+10
                                                             -9.611e+09
##
   air store idair d186b2cb0b9ce022
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##
                          -1.043e+08
                                                             -8.932e+09
   air store idair d34c0861a2be94cb
                                      air store idair d3e7b5952cd09ccb
##
                          -1.980e+10
                                                             -4.201e+06
##
   air store idair d44d210d2994f01b
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##
                          -2.112e+08
                                                             -1.889e+08
   air_store_idair_d477b6339b8ce69f
##
                                      air store idair d4981cdde163b172
##
                           3.341e+09
                                                             -8.932e+09
##
   air_store_idair_d4b5a4b04c5f2d04
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##
                          -8.988e+09
                                                             -1.043e+08
   air_store_idair_d500b48a8735fbd3
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##
                          -1.167e+08
                                                             -9.286e+09
##
   air_store_idair_d5e0a20370c325c7
                                      air_store_idair_d63cfa6d6ab78446
##
                           5.557e+07
                                                              3.845e+07
   air_store_idair_d69b08a175bc0387
##
                                      air_store_idair_d6b3e67261f07646
                          -4.201e+06
                                                              -3.540e+07
   air_store_idair_d8abb9e490abf94f
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##
##
                          -3.750e+08
                                                             -9.795e+07
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                                      air_store_idair_daa7947e1c47f5ed
##
##
                          -8.988e+09
                                                              3.845e+07
   air_store_idair_dabfbd0ec951925a
                                      air_store_idair_dad0b6a36138f309
##
                          -1.053e+08
                                                              3.845e+07
   air store idair db1233ad855b34d5
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##
##
                           5.496e+09
                                                             -8.982e+09
##
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                           5.496e+09
                                                             -1.970e+10
   air_store_idair_dc0e080ba0a5e5af
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##
                          -8.932e+09
                                                              3.341e+09
   air_store_idair_de692863bb2dd758
                                      air_store_idair_de803f7e324936b8
##
                          -1.966e+10
                                                              3.341e+09
##
   air_store_idair_de88770300008624
                                      air_store_idair_dea0655f96947922
##
                          -1.510e+09
                                                             -8.932e+09
##
   air_store_idair_df507aec929ce5f6
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##
                          -2.466e+08
                                                             -4.268e+09
## air store idair df5cf5cd03eb68d0 air store idair df843e6b22e8d540
```

```
##
                          -4.201e+06
                                                             -4.201e+06
                                      air_store_idair_dfad598ff642dab7
  air store idair df9355c47c5df9d3
                          -1.970e+10
                                                              9.513e+09
##
   air_store_idair_dfe068a1bf85f395
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##
##
                           3.627e+07
                                                             -1.034e+10
                                      air_store_idair_e01d99390355408d
##
  air store idair e0118664da63a2d0
##
                          -4.201e+06
                                                             -2.112e+08
##
  air store idair e053c561f32acc28
                                      air store idair e08b9cf82057a170
##
                           5.496e+09
                                                             -7.921e+07
##
   air_store_idair_e0aee25b56a069f2
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                          -2.466e+08
                                                             -1.966e+10
##
   air_store_idair_e0f241bd406810c0
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                          -1.536e+10
                                                             -1.043e+08
##
   air_store_idair_e2208a79e2678432
                                      air_store_idair_e270aff84ac7e4c8
##
                          -1.970e+10
                                                             -1.536e+10
   air_store_idair_e3020992d5fe5dfd
                                      air_store_idair_e34c631c766f2766
##
                           3.845e+07
                                                             -1.043e+08
   air_store_idair_e42bdc3377d1eee7
                                      air_store_idair_e483f5b3c4f310e0
##
                           1.343e+08
                                                             -1.980e+10
##
   air store idair e524c6a9e06cc3a1
                                      air store idair e55abd740f93ecc4
##
                          -4.201e+06
                                                             -1.034e+10
  air store idair e57dd6884595f60d
                                      air store idair e58f669b6f1a08ce
##
                          -1.970e+10
                                                             -3.006e+06
  air store idair e5cf003abcc5febb
                                      air store idair e64de0a6bf0739af
##
##
                          -1.899e+09
                                                             -4.201e+06
   air_store_idair_e657ca554b0c008c
                                      air store idair e700e390226d9985
##
                          -1.536e+10
                                                              2.351e+09
##
   air_store_idair_e76a668009c5dabc
                                      air_store_idair_e7d2ac6d53d1b744
##
                          -1.043e+08
                                                             -2.466e+08
   air_store_idair_e7fbee4e3cfe65c5
                                      air_store_idair_e88bbe2ede3467aa
##
                          -1.510e+09
                                                             -9.446e+09
##
   air_store_idair_e89735e80d614a7e
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##
                           1.569e+00
                                                              3.845e+07
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##
                                      air_store_idair_ea6d0c3acf00b22a
                          -9.335e+07
                                                              9.072e+07
                                      air_store_idair_eb120e6d384a17a8
   air store idair ea7c16131980c837
##
##
                           3.627e+07
                                                             -1.970e+10
  air_store_idair_eb20a89bba7dd3d0
                                      air_store_idair_eb2d2653586315dd
##
                                                             -9.286e+09
##
                          -1.986e+01
##
   air_store_idair_eb5788dba285e725
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                          -1.970e+10
                                                             -1.043e+08
   air store idair ebe02c3090271fa9
                                      air store idair ecOfad2def4dcff0
##
                          -1.718e+08
                                                             -5.808e+08
##
   air_store_idair_eca4a5a191e8d993
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                                                             -1.970e+10
                                      air_store_idair_eceb97ad6a7d4c07
   air_store_idair_ecab54b57a71b10d
##
                          -1.536e+10
                                                              7.963e+07
   air_store_idair_ecf7f141339f1d57
                                      air_store_idair_eda179770dfa9f91
##
                           3.845e+07
                                                             -9.011e+09
##
   air_store_idair_edd5e3d696a5811b
                                      air_store_idair_ee3a01f0c71a769f
##
                                                             -4.268e+09
                           1.221e+01
##
   air store idair ee3ba9af184c6c82
                                      air_store_idair_eec5e572b9eb9c23
##
                          -1.510e+09
                                                             -1.963e+10
## air store idair eeeadee005c006a2 air store idair ef47430bcd6f6a89
```

```
##
                          -4.927e+07
                                                             -1.970e+10
   air_store_idair_ef789667e2e6fe96
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                          -6.630e+08
##
                                                             -4.201e+06
   air_store_idair_efc80d3f96b3aff7
                                      air_store_idair_efd70b04de878f25
##
##
                          -2.466e+08
                                                              -1.043e+08
                                      air_store_idair_f068442ebb6c246c
##
   air store idair efef1e3daecce07e
##
                          -8.962e+09
                                                               5.557e+07
                                      air_store_idair_f0fb0975bdc2cdf9
##
   air store idair f0c7272956e62f12
##
                          -9.335e+07
                                                              -1.345e+10
##
   air_store_idair_f1094dbf2aef85d9
                                      air_store_idair_f180301886c21375
                          -1.980e+10
                                                             -1.970e+10
##
   air_store_idair_f183a514cb8ff4fa
                                      air_store_idair_f1f9027d4fa8f653
##
                          -4.201e+06
                                                             -3.027e+00
##
   air_store_idair_f267dd70a6a6b5d3
                                      air_store_idair_f26f36ec4dc5adb0
##
                          -1.067e+10
                                                             -1.053e+08
   air_store_idair_f2985de32bb792e0
                                      air_store_idair_f2c5a1f24279c531
##
                          -7.902e+07
                                                               5.557e+07
   air store idair f3602e4fa2f12993
                                      air store idair f3f9824b7d70c3cf
##
                          -1.946e+10
                                                               3.341e+09
##
   air store idair f4936b91c9addbf0
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##
                          -9.335e+07
                                                              -6.630e+08
   air store idair f690c42545146e0a
                                      air store idair f6b2489ccf873c3b
##
                                                               3.845e+07
                           3.368e+09
   air_store_idair_f6bfd27e2e174d16
##
                                      air store idair f6cdaf7b7fdc6d78
##
                          -1.043e+08
                                                             -1.970e+10
   air_store_idair_f8233ad00755c35c
##
                                      air store idair f85e21e543cf44f2
##
                                                             -2.012e+10
                          -1.043e+08
##
   air_store_idair_f88898cd09f40496
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##
                          -1.889e+08
                                                             -1.043e+08
   air_store_idair_f9168b23fdfc1e52
                                      air_store_idair_f927b2da69a82341
##
                          -2.466e+08
                                                             -9.589e+09
##
   air_store_idair_f957c6d6467d4d90
                                      air_store_idair_f96765e800907c77
##
                          -2.112e+08
                                                             -1.536e+10
   air_store_idair_fa12b40b02fecfd8
                                      air_store_idair_fa4ffc9057812fa2
##
                                                              -1.053e+08
                          -1.444e+08
   air_store_idair_fab092c35776a9b1
                                      air store idair fb44f566d4f64a4e
##
##
                          -1.980e+10
                                                               1.343e+08
   air_store_idair_fbadf737162a5ce3
                                      air_store_idair_fc477473134e9ae5
##
                                                               3.341e+09
##
                          -1.167e+08
                                      air_store_idair_fcfbdcf7b1f82c6e
##
   air_store_idair_fcd4492c83f1c6b9
                          -1.043e+08
                                                             -1.043e+08
   air store idair fd154088b1de6fa7
                                      air store idair fd6aac1043520e83
##
##
                          -1.053e+08
                                                              -4.201e+06
##
   air_store_idair_fdc02ec4a3d21ea4
                                      air_store_idair_fdcfef8bd859f650
                          -9.589e+09
                                                             -1.970e+10
                                      air_store_idair_fe58c074ec1445ea
   air_store_idair_fe22ef5a9cbef123
##
                          -1.970e+10
                                                               5.557e+07
##
   air_store_idair_fea5dc9594450608
                                      air_store_idair_fee8dcf4d619598e
##
                          -4.268e+09
                                                             -9.589e+09
##
   air_store_idair_fef9ccb3ba0da2f7
                                      air_store_idair_ffcc2d5087e1b476
##
                          -1.067e+10
                                                             -4.201e+06
   air_store_idair_fff68b929994bfbd
##
                                                             visit_date
##
                          -1.838e+08
                                                             -1.308e-03
##
                           longitude
                                                      day of weekMonday
```

-6.674e+00	-2.105e+09	##
day_of_weekSunday	day_of_weekSaturday	##
7.336e-01	3.230e+00	##
day_of_weekTuesday	day_of_weekThursday	##
-5.414e+00	-4.415e+00	##
holiday_flg	day_of_weekWednesday	##
3.702e+00	-3.861e+00	##