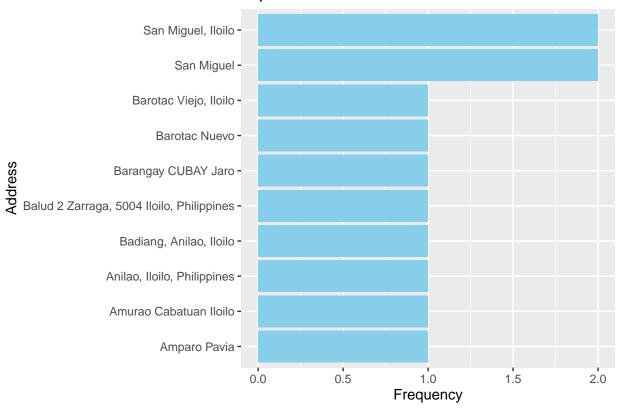
Online Food Delivery Service

2024-04-18

```
#Libraries
library("dplyr")
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
      filter, lag
## The following objects are masked from 'package:base':
##
      intersect, setdiff, setequal, union
library("readr")
library("ggplot2")
OFDSraw <- read_csv("database-RAW/Survey on Students' Perspectives of Online Food Delivery Service.csv"
## New names:
## Rows: 113 Columns: 54
## -- Column specification
## ------ Delimiter: "," chr
## (21): Timestamp, Username, Name, Age, Address, Contact number, Sex, Liv... dbl
## (32): Using online food delivery services saves me time compared to coo... date
## (1): Date
## 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.
## * `` -> `...54`
OFDSraw <- slice(OFDSraw, -1)
#I sliced the first row of the data frame because is a test when I created the google form
top <- OFDSraw[13:23,]
top
## # A tibble: 11 x 54
                                                    Address 'Contact number' Sex
##
     Timestamp
                               Username Name Age
##
     <chr>
                               <chr>
                                        <chr> <chr> <chr>
                                                           <chr>
                                                                            <chr>
## 1 2024/03/09 6:59:13 PM GM~ jayrver~ <NA> 18
                                                    Brgy. ~ <NA>
                                                                            Male
## 2 2024/03/09 7:13:45 PM GM~ adccruz~ <NA> 20
                                                    Jalaud~ 09707151744
                                                                            Male
## 3 2024/03/09 7:16:05 PM GM~ labayno~ Krys~ 19
                                                    Jalaud~ 09517387541
                                                                            Fema~
## 4 2024/03/09 7:16:26 PM GM~ nicoleb~ Nico~ 22
                                                    Oton, ~ <NA>
                                                                            Fema~
## 5 2024/03/09 7:21:56 PM GM~ dinajan~ Dina~ 23
                                                    San Jo~ <NA>
                                                                            Fema~
## 6 2024/03/09 7:41:57 PM GM~ vanessa~ Vane~ 18
                                                                            Fema~
                                                    Calaya~ <NA>
## 7 2024/03/09 7:42:08 PM GM~ shangmi~ Tris~ 25
                                                    Balud ~ 09297304689
                                                                            Fema~
## 8 2024/03/09 7:51:53 PM GM~ nichell~ <NA> 20`
                                                    San Mi~ <NA>
                                                                            Fema~
## 9 2024/03/09 7:58:15 PM GM~ ellamae~ Morc~ 19
                                                    Blk.9 ~ 09076836489
                                                                            Fema~
```

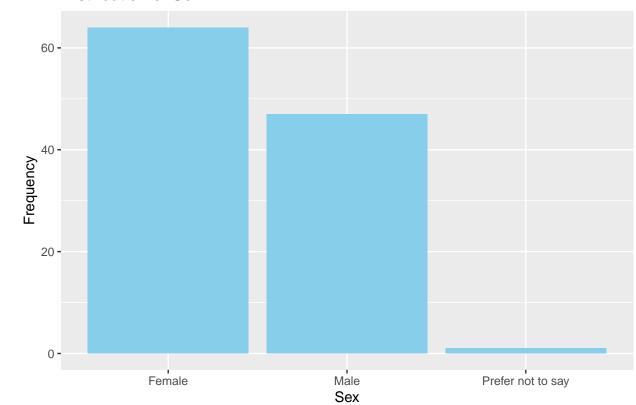
```
## 10 2024/03/09 8:01:27 PM GM~ vincede~ Nokie 19
                                                       Mambuy~ <NA>
                                                                                 Male
## 11 2024/03/10 2:29:51 PM GM~ elisham~ <NA> 19
                                                                                 Fema~
                                                       Brgy. ~ <NA>
## # i 47 more variables: `Living Situation` <chr>,
       'Do you have access to reliable transportation(e.g., bike, carpool)?' <chr>,
## #
       `Educational Background` <chr>, `Average Weekly Income / allowance` <chr>,
## #
      `Frequency of Using Online Food Delivery Services` <chr>,
## #
## #
      `Primary Reason for Using Online Food Delivery Services` <chr>,
       Date <date>,
## #
       `Using online food delivery services saves me time compared to cooking or going out to eat.` <db
Cleaning of age in data
# Extract numeric values from 'age' column
OFDSage <- as.numeric(gsub("[^0-9.]", "", OFDSraw$Age))
tempOFDSraw <- OFDSraw
tempOFDSraw[["Age"]] <- OFDSage</pre>
OFDSraw <- tempOFDSraw
Plotting of age
filtered_data <- tempOFDSraw[is.finite(OFDSraw$Age), ]</pre>
# Calculate range of finite ages
age_range <- range(filtered_data$Age)</pre>
# Create a histogram with more detailed x-axis
plotofage <- ggplot(data = filtered_data, aes(x = Age)) +</pre>
  geom_histogram(binwidth = 1, fill = "skyblue", color = "black") + # Decrease binwidth for more detai
  scale_x_continuous(breaks = seq(floor(age_range[1]), ceiling(age_range[2]), by = 1)) + # Custom brea
 labs(title = "Distribution of Ages",
       x = "Age",
       y = "Frequency")
plotofagemean <- mean(filtered_data$Age)</pre>
plotofagemin <- min(filtered_data$Age)</pre>
plotofagemax <- max(filtered_data$Age)</pre>
#Min of Age
plotofagemin
## [1] 13
#Mean of Age:
plotofagemean
## [1] 19.80357
#Max of Age
plotofagemax
## [1] 32
Plotting the Frequency of Address
address_freq <- table(tempOFDSraw$Address)</pre>
```

Top 10 Common Addresses



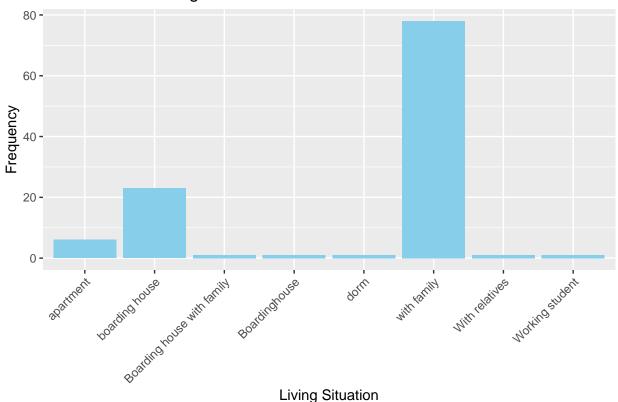
Plotting the Frequency of Sex

Distribution of Sex



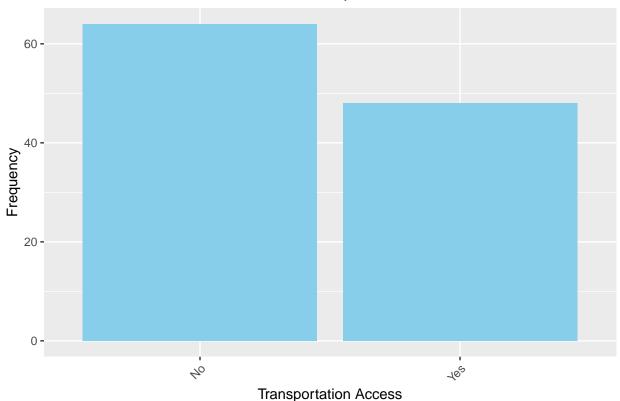
Plotting the Frequency of Living Situation

Distribution of Living Situation



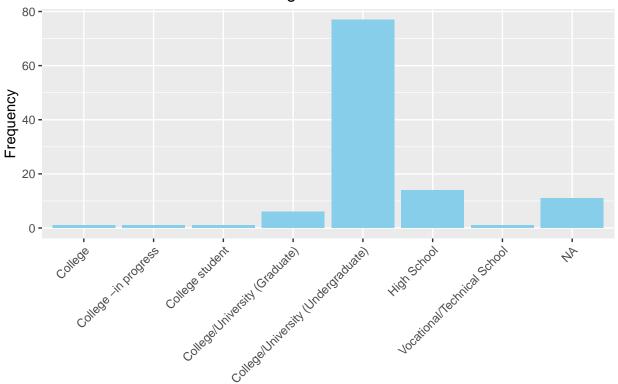
Plotting the Frequency of access to reliable transportation

Distribution of Access to Reliable Transportation



Plotting the Frequency of Educational Background

Distribution of Educational Backgrounds

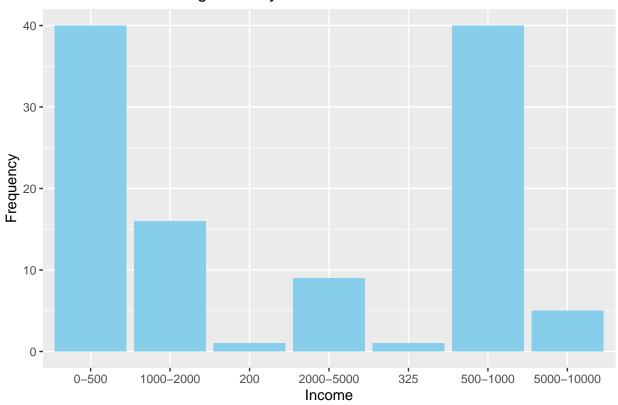


Educational Background

Plotting the Frequency for Average Weekly Income / allowance

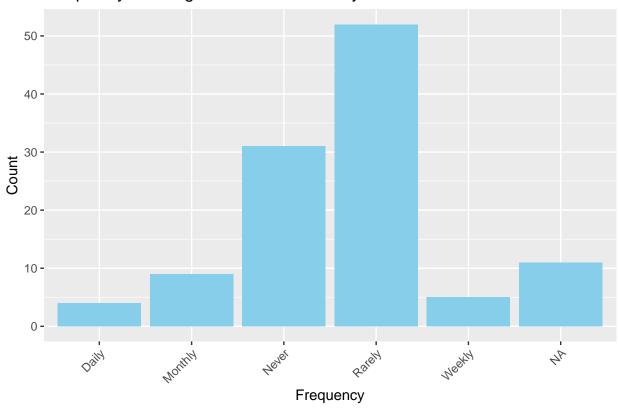
```
ggplot(data = OFDSraw, aes(x = OFDSraw$`Average Weekly Income / allowance`)) +
   geom_bar(fill = "skyblue") +
   labs(title = "Distribution of Average Weekly Income/Allowance",
        x = "Income",
        y = "Frequency")
```

Distribution of Average Weekly Income/Allowance



Plotting the Frequency for Frequency of Using Online Food Delivery Services

Frequency of Using Online Food Delivery Services

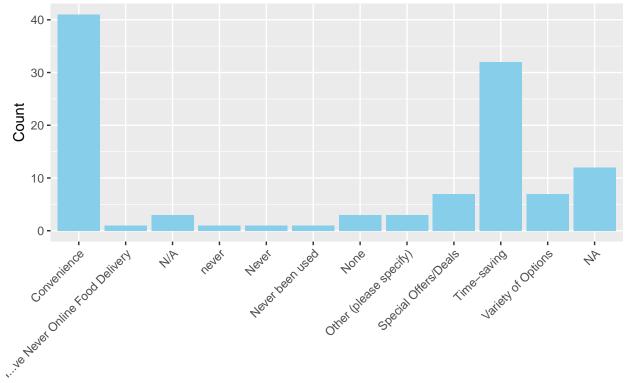


Plotting the Frequency for Primary Reason for Using Online Food Delivery Services

```
ggplot(data = OFDSraw, aes(x = OFDSraw$`Primary Reason for Using Online Food Delivery Services`)) +
  geom_bar(fill = "skyblue") +
  labs(title = "Primary Reasons for Using Online Food Delivery Services",
       x = "Primary Reason",
       v = "Count") +
  theme(axis.text.x = element_text(angle = 45, hjust = 1)) # Rotate x-axis labels for better readabili
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'I've Never Online Food Delivery' in 'mbcsToSbcs': dot
## substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'I've Never Online Food Delivery' in 'mbcsToSbcs': dot
## substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'I've Never Online Food Delivery' in 'mbcsToSbcs': dot
## substituted for <99>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'I've Never Online Food Delivery' in 'mbcsToSbcs': dot
## substituted for <e2>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'I've Never Online Food Delivery' in 'mbcsToSbcs': dot
## substituted for <80>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
```

conversion failure on 'I've Never Online Food Delivery' in 'mbcsToSbcs': dot ## substituted for <99>

Primary Reasons for Using Online Food Delivery Services



Primary Reason