paper

```
path=getwd()
path=dirname(dirname(path))
path
```

```
[1] "C:/sta302/paper_1/paper_1"
```

```
library(tidyverse)
```

```
-- Attaching core tidyverse packages ----------------------- tidyverse 2.0.0 --
v dplyr     1.1.4      v readr     2.1.5
v forcats   1.0.0      v stringr   1.5.1
v ggplot2   3.4.4      v tibble    3.2.1
v lubridate 1.9.3      v tidyr     1.3.0
v purrr     1.0.2
-- Conflicts ------------------------------------------ tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()    masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to becom
```

```
library(janitor)
```

```
Attaching package: 'janitor'

The following objects are masked from 'package:stats':

    chisq.test, fisher.test
```

```
polldata <- read_csv(paste0(path,"/input/data/polldata.csv"))
```

```
Rows: 1235 Columns: 26
-- Column specification -------------------------------------------------
Delimiter: ","
chr (11): ADDRESS, APPLICATION_FOR, BALLOTS_NEEDED_TO_PROCEED_LBL, CLOSE_DAT...
dbl (15): _id, BALLOTS_BLANK, BALLOTS_CAST, BALLOTS_DISTRIBUTED, BALLOTS_IN_...

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.
```

```
library(knitr)
library(kableExtra)
```

```
Attaching package: 'kableExtra'

The following object is masked from 'package:dplyr':

    group_rows
```

```
polldata <- polldata |>
  select(APPLICATION_FOR, OPEN_DATE_YEAR, RESPONSE_RATE_MET)
polldata |>
  slice(1:10) |>
  kable(
    caption = "Extracting the first ten rows from the poll data",
col.names=c("application_for", "open_date", "response_rate_met"),
linesep = "", digits = 1, booktabs=TRUE) |>
  kable_styling(latex_options = "HOLD_position", font_size = 10)
```
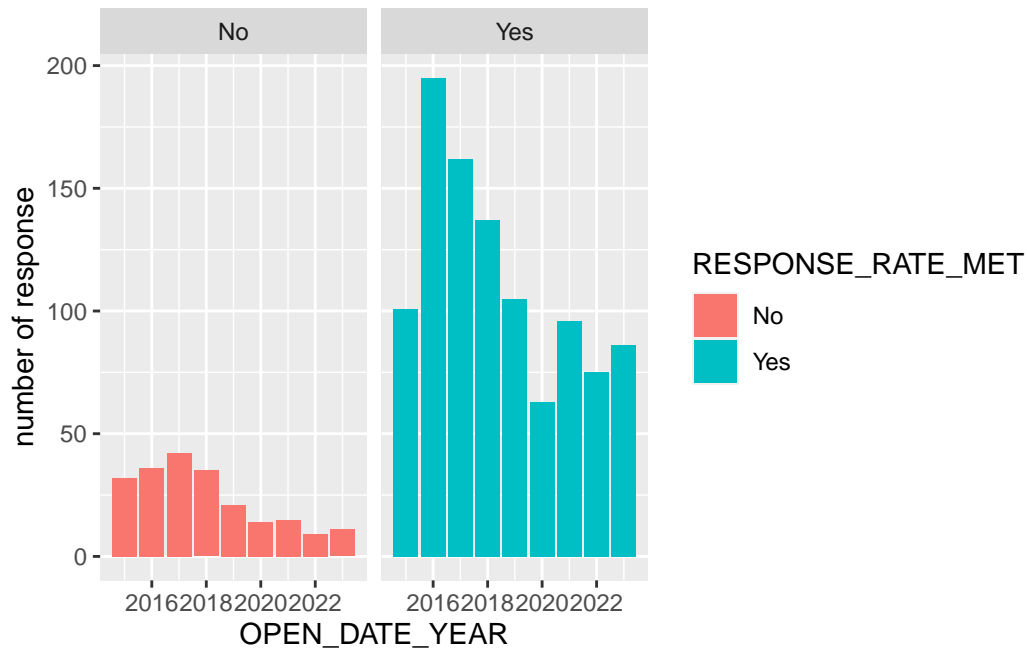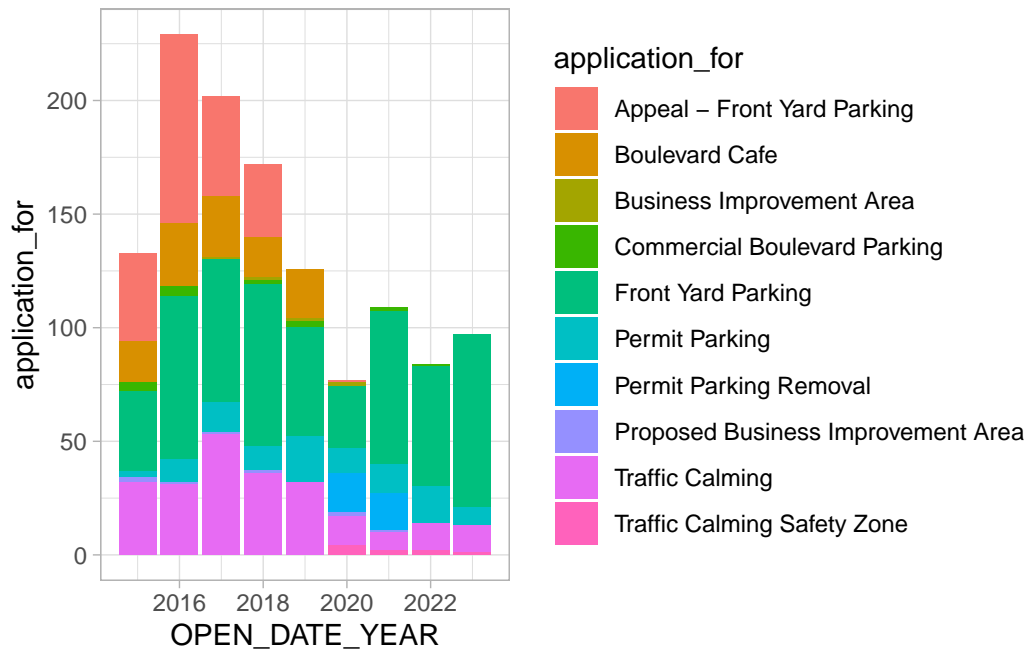
Table 1: Extracting the first ten rows from the poll data

application_for	open_date	response_rate_met
Front Yard Parking	2015	Yes
Front Yard Parking	2015	Yes
Front Yard Parking	2015	Yes
Traffic Calming	2015	No
Boulevard Cafe	2015	Yes
Traffic Calming	2015	No
Commercial Boulevard Parking	2015	No
Appeal - Front Yard Parking	2015	Yes
Traffic Calming	2015	No
Front Yard Parking	2015	Yes

```
ggplot(mapping = aes(x = OPEN_DATE_YEAR, fill =RESPONSE_RATE_MET), data=polldata) +
  geom_bar()+ ylab("number of response") + facet_wrap(~RESPONSE_RATE_MET)
```



```
polldata <- polldata[-c(201,305,514,515,964,965),]


ggplot(mapping = aes(x = OPEN_DATE_YEAR, fill=APPLICATION_FOR), data=polldata)+scale_fill_dis
```

```
ggplot(mapping = aes(x = APPLICATION_FOR, fill=RESPONSE_RATE_MET), data=polldata)+scale_fill
```