R Notebook

R Studio API Code

```
knitr::opts_chunk$set(echo = TRUE)
# library(rstudioapi)
# setwd(dirname(rstudioapi::getActiveDocumentContext()$path))
```

Libraries & Authentication

```
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------------------------

## v ggplot2 3.2.1     v purrr   0.3.3
## v tibble  2.1.3     v dplyr   0.8.4
## v tidyr   1.0.2     v stringr 1.4.0
## v readr   1.3.1     v forcats 0.5.0

## -- Conflicts -----------------------------------------------------------------
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```
```
library(qualtRics)
library(lubridate)
```

```
##
## Attaching package: 'lubridate'

## The following object is masked from 'package:base':
##
##     date
```
```
api <- "zRUOIGOPDgBL3kTW6NuJnhwNwzO4vUpqiNoH755b"
baseURL <- "umn.ca1.qualtrics.com"
qualtrics_api_credentials(api,baseURL,install=T,overwrite=T)
```

```
## Your original .Renviron will be backed up and stored in your R HOME directory if needed.

## Your Qualtrics key and base URL have been stored in your .Renviron.
## To use now, restart R or run `readRenviron("~/.Renviron")`
```

Data Import and Cleaning

```
surveys <- all_surveys()
surveys_tbl <- as_tibble(surveys) %>%
```

```r
  select(name,creationDate) %>%
  mutate(creationDate=ymd_hms(creationDate),
         DateOnly=date(creationDate)) %>%
  group_by(DateOnly) %>%
  summarise(Count=n())
surveys_tbl
```

```
## # A tibble: 19 x 2
##     DateOnly   Count
##     <date>     <int>
##  1 2015-03-09      1
##  2 2017-07-25     10
##  3 2017-07-26      4
##  4 2017-07-27      2
##  5 2018-03-14      2
##  6 2018-04-12      2
##  7 2018-06-07      1
##  8 2018-07-14      3
##  9 2018-07-26      1
## 10 2018-11-08      1
## 11 2018-12-05      1
## 12 2019-02-18      2
## 13 2019-04-17      1
## 14 2019-05-01      2
## 15 2019-06-23      1
## 16 2019-06-24      1
## 17 2019-07-30      2
## 18 2019-11-07      1
## 19 2019-11-08      1
```

Analysis

Visualization

Number of Surveys Created Over time