combining exit tickets

Loading and setting up

```
library(tidyverse)
library(here)
library(plyr)
library(ggplot2)
library(janitor)
```

Reading data

```
#eoc1 <- read_csv(here::here("data", "eoc-1.csv"))
#eoc3 <- read_csv(here::here("data", "eoc-3.csv"))
#eoc4 <- read_csv(here::here("data", "eoc-4.csv"))
#eoc5 <- read_csv(here::here("data", "eoc-5.csv"))
#pre <- read.csv(here::here("data", "pre-survey.csv"))
#post <- read.csv(here::here("data", "post-survey.csv"))
combo <- read_csv(here::here("data", "eoc_combo.csv"))
comment <- read_csv(here::here("data", "combo_organize_notes.csv"))
ordered <- read_csv(here::here("data", "Survey_date.csv"))
```

```
## Warning: Missing column names filled in: 'X4' [4]
```

Filtering responses

The following code is to focus the number of columns that we need to use when we are analyzing the data.

- Start date = when the individual started the intial survey.

- EndDate = when the individual finished the survey.

- Progress = how much of the survey was completed.

Most individuals completed the surveys to the 100 percent level

- RecipientEmail = the individuals email

- ResponseID = the ID that was creatd by the system

- Survey = which of the 5 surveys the response was associated.

Q1_1 , Q1_2, Q1_3, Q1_4, Q2 = the questions that were asked on each of the surveys given to the participants.

```
selected <- combo %>%
  select("StartDate","EndDate","Progress","RecipientEmail", "ResponseId", "Survey", "Q1_1", "Q1_2", "Q1
  arrange(StartDate)%>%
write_csv("combo_organize.csv")
```

The following code

The questions for the surveys were organized by the question and the survey they corresponded with.

```
comment %>%
  select(Survey,Q1_1)%>%
  count()
```

For example, Q1_1 file will have all of the Q1_1 questions for all of they EOC 1-5 surveys.

```
##    Survey                      Q1_1 freq
## 1    eoc1            Almost always   16
## 2    eoc1             Occasionally    1
## 3    eoc1 To a considerable degree   15
## 4    eoc1                      <NA>    2
## 5    eoc2            Almost always    7
## 6    eoc2 To a considerable degree    3
## 7    eoc2                      <NA>    1
## 8    eoc3            Almost always    5
## 9    eoc3 To a considerable degree    1
## 10   eoc4            Almost always    3
## 11   eoc4             Occasionally    2
## 12   eoc4 To a considerable degree    1
## 13   eoc5            Almost always    4
## 14   eoc5             Occasionally    1
## 15   eoc5 To a considerable degree    1
```

```
comment %>%
  select(Survey,Q1_2)%>%
  count()
```

```
##    Survey                      Q1_2 freq
## 1    eoc1            Almost always    1
```

```
## 2    eoc1             Occasionally    6
## 3    eoc1                  Seldom   23
## 4    eoc1 To a considerable degree    2
## 5    eoc1                    <NA>    2
## 6    eoc2             Occasionally    2
## 7    eoc2                  Seldom    7
## 8    eoc2 To a considerable degree    1
## 9    eoc2                    <NA>    1
## 10   eoc3             Occasionally    2
## 11   eoc3                  Seldom    4
## 12   eoc4             Occasionally    2
## 13   eoc4                  Seldom    2
## 14   eoc4 To a considerable degree    2
## 15   eoc5             Occasionally    2
## 16   eoc5                  Seldom    4
```

```
comment %>%
  select(Survey,Q1_3)%>%
  count()
```

```
##    Survey                    Q1_3 freq
## 1    eoc1           Almost always   15
## 2    eoc1            Occasionally    2
## 3    eoc1                  Seldom    1
## 4    eoc1 To a considerable degree   14
## 5    eoc1                    <NA>    2
## 6    eoc2           Almost always    6
## 7    eoc2            Occasionally    1
## 8    eoc2 To a considerable degree    3
## 9    eoc2                    <NA>    1
## 10   eoc3           Almost always    4
## 11   eoc3 To a considerable degree    2
## 12   eoc4           Almost always    1
## 13   eoc4            Occasionally    2
## 14   eoc4 To a considerable degree    3
## 15   eoc5           Almost always    4
## 16   eoc5 To a considerable degree    2
```

```
comment %>%
  select(Survey,Q1_4)%>%
  count()
```

```
##    Survey                    Q1_4 freq
## 1    eoc1           Almost always   16
## 2    eoc1            Occasionally    5
## 3    eoc1                  Seldom    1
## 4    eoc1 To a considerable degree   10
## 5    eoc1                    <NA>    2
## 6    eoc2           Almost always    4
## 7    eoc2            Occasionally    1
## 8    eoc2 To a considerable degree    5
## 9    eoc2                    <NA>    1
## 10   eoc3           Almost always    4
```

```
## 11   eoc3 To a considerable degree    2
## 12   eoc4             Almost always    1
## 13   eoc4              Occasionally    3
## 14   eoc4 To a considerable degree    2
## 15   eoc5             Almost always    4
## 16   eoc5              Occasionally    1
## 17   eoc5 To a considerable degree    1
```

```
comment %>%
  select(Survey, Q2)%>%
  count()
```

```
##    Survey
## 1    eoc1
## 2    eoc1
## 3    eoc1
## 4    eoc1
## 5    eoc1
## 6    eoc1
## 7    eoc1
## 8    eoc1
## 9    eoc1
## 10   eoc1
## 11   eoc1
## 12   eoc1
## 13   eoc1
## 14   eoc1
## 15   eoc1
## 16   eoc1
## 17   eoc1
## 18   eoc1
## 19   eoc1
## 20   eoc1
## 21   eoc1
## 22   eoc1
## 23   eoc1
## 24   eoc1
## 25   eoc1
## 26   eoc1
## 27   eoc1
## 28   eoc2
## 29   eoc2
## 30   eoc2
## 31   eoc2
## 32   eoc2
## 33   eoc2
## 34   eoc2
## 35   eoc2
## 36   eoc2
## 37   eoc3
## 38   eoc3
## 39   eoc3
## 40   eoc3
## 41   eoc3
```

```
## 42   eoc4
## 43   eoc4
## 44   eoc4
## 45   eoc4
## 46   eoc5
## 47   eoc5
## 48   eoc5
## 49   eoc5
##
## 1
## 2
## 3
## 4
## 5
## 6
## 7
## 8
## 9
## 10
## 11
## 12
## 13
## 14
## 15
## 16
## 17
## 18
## 19
## 20
## 21
## 22
## 23
## 24
## 25
## 26
## 27
## 28
## 29
## 30
## 31
## 32
## 33
## 34
## 35
## 36
## 37
## 38
## 39
## 40
## 41
## 42 Thank you Becky for closing the loop on your presentation! It was great!! The GIS breakout was gr
## 43
## 44
## 45
```

```
## 46
## 47
## 48
## 49
##    freq
## 1     1
## 2     1
## 3     1
## 4     1
## 5     1
## 6     1
## 7     1
## 8     1
## 9     1
## 10    1
## 11    1
## 12    1
## 13    1
## 14    1
## 15    1
## 16    1
## 17    1
## 18    1
## 19    1
## 20    1
## 21    1
## 22    1
## 23    1
## 24    1
## 25    1
## 26    1
## 27    8
## 28    1
## 29    1
## 30    1
## 31    1
## 32    1
## 33    1
## 34    1
## 35    1
## 36    3
## 37    1
## 38    1
## 39    1
## 40    1
## 41    2
## 42    1
## 43    1
## 44    1
## 45    3
## 46    1
## 47    1
## 48    1
## 49    3
```

```
comment %>%
  select(Survey, Q2_code)%>%
  count()
```

```
##    Survey       Q2_code freq
## 1    eoc1    Alteration    2
## 2    eoc1   Alterations    1
## 3    eoc1      Approval    2
## 4    eoc1 Clarification    3
## 5    eoc1       Enjoyed    9
## 6    eoc1       Excited    1
## 7    eoc1         Focus    1
## 8    eoc1   Informative    1
## 9    eoc1          None    2
## 10   eoc1       Speaker    1
## 11   eoc1      too long    1
## 12   eoc1 Understanding    1
## 13   eoc1  want team-up    1
## 14   eoc1          <NA>    8
## 15   eoc2    Alteration    1
## 16   eoc2      Approval    1
## 17   eoc2 Clarification    1
## 18   eoc2       Enjoyed    3
## 19   eoc2          None    2
## 20   eoc2          <NA>    3
## 21   eoc3      Approval    2
## 22   eoc3       Enjoyed    2
## 23   eoc3          <NA>    2
## 24   eoc4       Enjoyed    3
## 25   eoc4            Na    1
## 26   eoc4          <NA>    2
## 27   eoc5       Enjoyed    1
## 28   eoc5        Format    1
## 29   eoc5     went well    1
## 30   eoc5          <NA>    3
```

Some of the participants used the same link on multiple days that could alter the analysis of the data. This code will divide when each of the survey responses were sent (the EndDate) to researchers.

```
dates <- comment %>%
  select(Survey, EndDate)%>%
  count()
```

##Breakdown Question by time points ### Theses coded are further investigation of when each of the questions were sent. This will assist in the separation by date to ensure responses are truly chronological when they participated in the events of the study.

```
comment %>%
  janitor::tabyl(EndDate, Q1_1)
```

```
##    EndDate Almost always Occasionally To a considerable degree NA_
##  6/22/2020             4            0                       7   2
##  6/23/2020             9            1                       6   1
##  6/24/2020             6            0                       4   0
##  6/25/2020            10            2                       3   0
##  6/26/2020             5            1                       1   0
##   7/1/2020             1            0                       0   0
```

```
comment %>%
  janitor::tabyl(EndDate, Q1_2)
```

```
##    EndDate Almost always Occasionally Seldom To a considerable degree NA_
##  6/22/2020             0            4      7                       0   2
##  6/23/2020             0            3     12                       1   1
##  6/24/2020             0            2      8                       0   0
##  6/25/2020             1            3      8                       3   0
##  6/26/2020             0            2      4                       1   0
##   7/1/2020             0            0      1                       0   0
```

```
comment %>%
  janitor::tabyl(EndDate, Q1_3)
```

```
##    EndDate Almost always Occasionally Seldom To a considerable degree NA_
##  6/22/2020             4            0      0                       7   2
##  6/23/2020             8            2      0                       6   1
##  6/24/2020             6            0      0                       4   0
##  6/25/2020             7            3      1                       4   0
##  6/26/2020             4            0      0                       3   0
##   7/1/2020             1            0      0                       0   0
```

```
comment %>%
  janitor::tabyl(EndDate, Q1_4)
```

```
##    EndDate Almost always Occasionally Seldom To a considerable degree NA_
##  6/22/2020             4            1      1                       5   2
##  6/23/2020             5            3      0                       8   1
##  6/24/2020             6            0      0                       4   0
##  6/25/2020             8            5      0                       2   0
##  6/26/2020             5            1      0                       1   0
##   7/1/2020             1            0      0                       0   0
```

```
comment %>%
  janitor::tabyl(EndDate, Q2_code)
```

```
##    EndDate Alteration Alterations Approval Clarification Enjoyed Excited Focus
##  6/22/2020          0           0        0             3       2       1     1
##  6/23/2020          2           1        1             1       4       0     0
##  6/24/2020          0           0        4             0       3       0     0
##  6/25/2020          1           0        0             0       8       0     0
##  6/26/2020          0           0        0             0       1       0     0
##   7/1/2020          0           0        0             0       0       0     0
```

```
##  Format Informative Na None Speaker too long Understanding want team-up
##       0           0  0    2       1        0             0            0
##       0           1  0    1       0        0             0            0
##       0           0  0    1       0        0             0            0
##       0           0  1    0       0        1             1            0
##       1           0  0    0       0        0             0            1
##       0           0  0    0       0        0             0            0
##  went well NA_
##          0   3
##          0   6
##          0   2
##          0   3
##          1   3
##          0   1
```