02\_CE211\_Analysis

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Load Libraries

require(tidyverse)

## Loading required package: tidyverse

## -- Attaching packages --------------------------------------- tidyverse 1.3.1 --

## v ggplot2 3.3.5 v purrr 0.3.4  
## v tibble 3.1.5 v dplyr 1.0.7  
## v tidyr 1.1.4 v stringr 1.4.0  
## v readr 2.0.2 v forcats 0.5.1

## -- Conflicts ------------------------------------------ tidyverse\_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()

require(lubridate)

## Loading required package: lubridate

##   
## Attaching package: 'lubridate'

## The following objects are masked from 'package:base':  
##   
## date, intersect, setdiff, union

require(stringr)  
require(readxl)

## Loading required package: readxl

require(arsenal)

## Loading required package: arsenal

##   
## Attaching package: 'arsenal'

## The following object is masked from 'package:lubridate':  
##   
## is.Date

Load From file

needs <- read.csv("../Data/Cleaned/01\_Needs.csv")  
referrals <- read.csv("../Data/Cleaned/01\_referrals.csv")

Type Covert

needs <- needs %>% mutate(Age = as.factor(Age), Gender = as.factor(Gender), Language = as.factor(Language)  
 ,Military\_Status = as.factor(Military\_Status)  
 ,Disability\_Status = as.factor(Disability\_Status)  
 ,Disability\_Type = as.factor(Disability\_Type)  
 ,Health\_Insurance = as.factor(Health\_Insurance)  
 , Need = as.factor(Need));  
  
referrals <- referrals %>% mutate(Age = as.factor(Age), Gender = as.factor(Gender), Language = as.factor(Language)  
 ,Military\_Status = as.factor(Military\_Status)  
 ,Disability\_Status = as.factor(Disability\_Status)  
 ,Disability\_Type = as.factor(Disability\_Type)  
 ,Health\_Insurance = as.factor(Health\_Insurance))

Generate Stats

summary(tableby(~Need,data = needs))

##   
##   
## | | Overall (N=16814) |  
## |:------------------------------------------------------------|:-----------------:|  
## |\*\*Need\*\* | |  
## |&nbsp;&nbsp;&nbsp;Arts Culture and Recreation | 1 (0.0%) |  
## |&nbsp;&nbsp;&nbsp;Clothing/Personal/Household Needs | 32 (0.2%) |  
## |&nbsp;&nbsp;&nbsp;Disaster Services | 129 (0.8%) |  
## |&nbsp;&nbsp;&nbsp;Education | 2 (0.0%) |  
## |&nbsp;&nbsp;&nbsp;Employment | 55 (0.3%) |  
## |&nbsp;&nbsp;&nbsp;Food/Meals | 192 (1.1%) |  
## |&nbsp;&nbsp;&nbsp;Health Care | 87 (0.5%) |  
## |&nbsp;&nbsp;&nbsp;Housing | 6946 (41.3%) |  
## |&nbsp;&nbsp;&nbsp;Income Support/Assistance | 89 (0.5%) |  
## |&nbsp;&nbsp;&nbsp;Individual Family and Community Support | 104 (0.6%) |  
## |&nbsp;&nbsp;&nbsp;Information Services | 8840 (52.6%) |  
## |&nbsp;&nbsp;&nbsp;Legal Consumer and Public Safety Services | 72 (0.4%) |  
## |&nbsp;&nbsp;&nbsp;Mental Health/Addictions | 158 (0.9%) |  
## |&nbsp;&nbsp;&nbsp;Other Government/Economic Services | 15 (0.1%) |  
## |&nbsp;&nbsp;&nbsp;Transportation | 48 (0.3%) |  
## |&nbsp;&nbsp;&nbsp;Utility Assistance | 26 (0.2%) |  
## |&nbsp;&nbsp;&nbsp;Volunteers/Donations | 18 (0.1%) |

Generate Stats

summary(tableby(~CE\_Screened,data = needs))

##   
##   
## | | Overall (N=16814) |  
## |:----------------------------------------------------------|:-----------------:|  
## |\*\*CE\_Screened\*\* | |  
## |&nbsp;&nbsp;&nbsp;N-Miss | 21 |  
## |&nbsp;&nbsp;&nbsp;DV Referral | 358 (2.1%) |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless | 13229 (78.8%) |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;DV Referral | 134 (0.8%) |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;Precariously Housed | 45 (0.3%) |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;Risk of Homelessness | 49 (0.3%) |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;ROI Declined | 14 (0.1%) |  
## |&nbsp;&nbsp;&nbsp;Precariously Housed | 122 (0.7%) |  
## |&nbsp;&nbsp;&nbsp;Precariously Housed;DV Referral | 3 (0.0%) |  
## |&nbsp;&nbsp;&nbsp;Risk of Homelessness | 2757 (16.4%) |  
## |&nbsp;&nbsp;&nbsp;Risk of Homelessness;DV Referral | 14 (0.1%) |  
## |&nbsp;&nbsp;&nbsp;Risk of Homelessness;Precariously Housed | 27 (0.2%) |  
## |&nbsp;&nbsp;&nbsp;ROI Declined | 41 (0.2%) |

summary(tableby(Need ~ CE\_Screened,data = needs))

##   
##   
## | | Arts Culture and Recreation (N=1) | Clothing/Personal/Household Needs (N=32) | Disaster Services (N=129) | Education (N=2) | Employment (N=55) | Food/Meals (N=192) | Health Care (N=87) | Housing (N=6946) | Income Support/Assistance (N=89) | Individual Family and Community Support (N=104) | Information Services (N=8840) | Legal Consumer and Public Safety Services (N=72) | Mental Health/Addictions (N=158) | Other Government/Economic Services (N=15) | Transportation (N=48) | Utility Assistance (N=26) | Volunteers/Donations (N=18) | Total (N=16814) | p value|  
## |:----------------------------------------------------------|:----------------------------------:|:----------------------------------------:|:-------------------------:|:---------------:|:-----------------:|:------------------:|:------------------:|:----------------:|:--------------------------------:|:------------------------------------------------:|:-----------------------------:|:-------------------------------------------------:|:--------------------------------:|:-----------------------------------------:|:---------------------:|:-------------------------:|:---------------------------:|:---------------:|-------:|  
## |\*\*CE\_Screened\*\* | | | | | | | | | | | | | | | | | | | < 0.001|  
## |&nbsp;&nbsp;&nbsp;N-Miss | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 12 | 0 | 1 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 21 | |  
## |&nbsp;&nbsp;&nbsp;DV Referral | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 2 (3.6%) | 2 (1.0%) | 2 (2.3%) | 260 (3.7%) | 1 (1.1%) | 7 (6.8%) | 29 (0.3%) | 3 (4.2%) | 51 (32.3%) | 0 (0.0%) | 1 (2.1%) | 0 (0.0%) | 0 (0.0%) | 358 (2.1%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless | 1 (100.0%) | 26 (81.2%) | 104 (81.2%) | 1 (50.0%) | 46 (83.6%) | 141 (73.4%) | 62 (72.1%) | 5379 (77.6%) | 63 (70.8%) | 58 (56.3%) | 7149 (80.9%) | 49 (69.0%) | 68 (43.0%) | 11 (73.3%) | 41 (85.4%) | 15 (57.7%) | 15 (83.3%) | 13229 (78.8%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;DV Referral | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 98 (1.4%) | 0 (0.0%) | 0 (0.0%) | 12 (0.1%) | 0 (0.0%) | 24 (15.2%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 134 (0.8%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;Precariously Housed | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 2 (1.0%) | 1 (1.2%) | 13 (0.2%) | 1 (1.1%) | 1 (1.0%) | 27 (0.3%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 45 (0.3%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;Risk of Homelessness | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 1 (0.5%) | 0 (0.0%) | 20 (0.3%) | 0 (0.0%) | 2 (1.9%) | 24 (0.3%) | 1 (1.4%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 1 (5.6%) | 49 (0.3%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;ROI Declined | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 1 (1.8%) | 0 (0.0%) | 0 (0.0%) | 7 (0.1%) | 0 (0.0%) | 0 (0.0%) | 5 (0.1%) | 1 (1.4%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 14 (0.1%) | |  
## |&nbsp;&nbsp;&nbsp;Precariously Housed | 0 (0.0%) | 1 (3.1%) | 2 (1.6%) | 0 (0.0%) | 1 (1.8%) | 0 (0.0%) | 1 (1.2%) | 39 (0.6%) | 1 (1.1%) | 4 (3.9%) | 69 (0.8%) | 0 (0.0%) | 3 (1.9%) | 0 (0.0%) | 0 (0.0%) | 1 (3.8%) | 0 (0.0%) | 122 (0.7%) | |  
## |&nbsp;&nbsp;&nbsp;Precariously Housed;DV Referral | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 1 (0.5%) | 0 (0.0%) | 1 (0.0%) | 0 (0.0%) | 0 (0.0%) | 1 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 3 (0.0%) | |  
## |&nbsp;&nbsp;&nbsp;Risk of Homelessness | 0 (0.0%) | 4 (12.5%) | 22 (17.2%) | 1 (50.0%) | 5 (9.1%) | 44 (22.9%) | 20 (23.3%) | 1076 (15.5%) | 23 (25.8%) | 31 (30.1%) | 1488 (16.8%) | 14 (19.7%) | 9 (5.7%) | 4 (26.7%) | 4 (8.3%) | 10 (38.5%) | 2 (11.1%) | 2757 (16.4%) | |  
## |&nbsp;&nbsp;&nbsp;Risk of Homelessness;DV Referral | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 1 (0.5%) | 0 (0.0%) | 7 (0.1%) | 0 (0.0%) | 0 (0.0%) | 2 (0.0%) | 1 (1.4%) | 3 (1.9%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 14 (0.1%) | |  
## |&nbsp;&nbsp;&nbsp;Risk of Homelessness;Precariously Housed | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 9 (0.1%) | 0 (0.0%) | 0 (0.0%) | 18 (0.2%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 27 (0.2%) | |  
## |&nbsp;&nbsp;&nbsp;ROI Declined | 0 (0.0%) | 1 (3.1%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 25 (0.4%) | 0 (0.0%) | 0 (0.0%) | 11 (0.1%) | 2 (2.8%) | 0 (0.0%) | 0 (0.0%) | 2 (4.2%) | 0 (0.0%) | 0 (0.0%) | 41 (0.2%) | |

Q1 —-

1. Frequency- needs (% of clients indicating each need)

tab1 <- tableby(~Need,data = needs)  
q1.a <- as.data.frame(tab1)  
summary(tab1)

##   
##   
## | | Overall (N=16814) |  
## |:------------------------------------------------------------|:-----------------:|  
## |\*\*Need\*\* | |  
## |&nbsp;&nbsp;&nbsp;Arts Culture and Recreation | 1 (0.0%) |  
## |&nbsp;&nbsp;&nbsp;Clothing/Personal/Household Needs | 32 (0.2%) |  
## |&nbsp;&nbsp;&nbsp;Disaster Services | 129 (0.8%) |  
## |&nbsp;&nbsp;&nbsp;Education | 2 (0.0%) |  
## |&nbsp;&nbsp;&nbsp;Employment | 55 (0.3%) |  
## |&nbsp;&nbsp;&nbsp;Food/Meals | 192 (1.1%) |  
## |&nbsp;&nbsp;&nbsp;Health Care | 87 (0.5%) |  
## |&nbsp;&nbsp;&nbsp;Housing | 6946 (41.3%) |  
## |&nbsp;&nbsp;&nbsp;Income Support/Assistance | 89 (0.5%) |  
## |&nbsp;&nbsp;&nbsp;Individual Family and Community Support | 104 (0.6%) |  
## |&nbsp;&nbsp;&nbsp;Information Services | 8840 (52.6%) |  
## |&nbsp;&nbsp;&nbsp;Legal Consumer and Public Safety Services | 72 (0.4%) |  
## |&nbsp;&nbsp;&nbsp;Mental Health/Addictions | 158 (0.9%) |  
## |&nbsp;&nbsp;&nbsp;Other Government/Economic Services | 15 (0.1%) |  
## |&nbsp;&nbsp;&nbsp;Transportation | 48 (0.3%) |  
## |&nbsp;&nbsp;&nbsp;Utility Assistance | 26 (0.2%) |  
## |&nbsp;&nbsp;&nbsp;Volunteers/Donations | 18 (0.1%) |

1. Frequency- number of needs per client

q1.b <- needs %>% group\_by(Contact\_Number,Call\_Date) %>% summarise(count\_needs = n())

## `summarise()` has grouped output by 'Contact\_Number'. You can override using the `.groups` argument.

q1.b\_2 <- q1.b %>% group\_by(count\_needs) %>% summarise(n())   
q1.b\_2

## # A tibble: 7 x 2  
## count\_needs `n()`  
## <int> <int>  
## 1 1 12651  
## 2 2 1744  
## 3 3 181  
## 4 4 22  
## 5 5 5  
## 6 6 2  
## 7 7 1

1. Frequency- CE Screened (all categories) filtered by Need=Housing
   * if Contact Number has Housing and Information Services Need, include in this frequency

q1.c <- needs %>% filter(Need == 'Housing' | Need == 'Information Services')

1. Frequency- CE Screened (all categories) filtered by Need=Information Services -if Contact Number has Housing and Information Services Need, exclude from this frequency

q1.d <- needs %>% filter(Need != 'Housing' | Need != 'Information Services')

1. Crosstab: CE Screened (all categories) filtered by Need=Housing x Gender

tbl\_by <- tableby(Gender ~ CE\_Screened ,data = needs %>% filter(Need == 'Housing'))  
summary(tbl\_by)

##   
##   
## | | Female (N=4204) | Male (N=2582) | Refused to Disclose (N=7) | Transgender (N=23) | Total (N=6816) | p value|  
## |:----------------------------------------------------------|:---------------:|:-------------:|:-------------------------:|:------------------:|:--------------:|-------:|  
## |\*\*CE\_Screened\*\* | | | | | | < 0.001|  
## |&nbsp;&nbsp;&nbsp;N-Miss | 8 | 1 | 0 | 0 | 9 | |  
## |&nbsp;&nbsp;&nbsp;DV Referral | 216 (5.1%) | 24 (0.9%) | 1 (14.3%) | 0 (0.0%) | 241 (3.5%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless | 3034 (72.3%) | 2250 (87.2%) | 5 (71.4%) | 17 (73.9%) | 5306 (77.9%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;DV Referral | 84 (2.0%) | 14 (0.5%) | 0 (0.0%) | 0 (0.0%) | 98 (1.4%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;Precariously Housed | 11 (0.3%) | 2 (0.1%) | 0 (0.0%) | 0 (0.0%) | 13 (0.2%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;Risk of Homelessness | 15 (0.4%) | 4 (0.2%) | 0 (0.0%) | 0 (0.0%) | 19 (0.3%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;ROI Declined | 4 (0.1%) | 3 (0.1%) | 0 (0.0%) | 0 (0.0%) | 7 (0.1%) | |  
## |&nbsp;&nbsp;&nbsp;Precariously Housed | 25 (0.6%) | 8 (0.3%) | 0 (0.0%) | 0 (0.0%) | 33 (0.5%) | |  
## |&nbsp;&nbsp;&nbsp;Precariously Housed;DV Referral | 1 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 1 (0.0%) | |  
## |&nbsp;&nbsp;&nbsp;Risk of Homelessness | 774 (18.4%) | 269 (10.4%) | 1 (14.3%) | 6 (26.1%) | 1050 (15.4%) | |  
## |&nbsp;&nbsp;&nbsp;Risk of Homelessness;DV Referral | 6 (0.1%) | 1 (0.0%) | 0 (0.0%) | 0 (0.0%) | 7 (0.1%) | |  
## |&nbsp;&nbsp;&nbsp;Risk of Homelessness;Precariously Housed | 9 (0.2%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 9 (0.1%) | |  
## |&nbsp;&nbsp;&nbsp;ROI Declined | 17 (0.4%) | 6 (0.2%) | 0 (0.0%) | 0 (0.0%) | 23 (0.3%) | |

q1.e <- as.data.frame(tbl\_by)

1. Crosstab: CE Screened (all categories) filtered by Need=Information Services x Gender

tbl\_by <- tableby(Gender ~ CE\_Screened ,data = needs %>% filter(Need == 'Information Services'))  
summary(tbl\_by)

##   
##   
## | | Female (N=4849) | Male (N=3758) | Refused to Disclose (N=18) | Transgender (N=30) | Total (N=8655) | p value|  
## |:----------------------------------------------------------|:---------------:|:-------------:|:--------------------------:|:------------------:|:--------------:|-------:|  
## |\*\*CE\_Screened\*\* | | | | | | < 0.001|  
## |&nbsp;&nbsp;&nbsp;N-Miss | 2 | 1 | 0 | 0 | 3 | |  
## |&nbsp;&nbsp;&nbsp;DV Referral | 24 (0.5%) | 2 (0.1%) | 0 (0.0%) | 0 (0.0%) | 26 (0.3%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless | 3662 (75.6%) | 3305 (88.0%) | 11 (61.1%) | 26 (86.7%) | 7004 (81.0%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;DV Referral | 9 (0.2%) | 3 (0.1%) | 0 (0.0%) | 0 (0.0%) | 12 (0.1%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;Precariously Housed | 19 (0.4%) | 6 (0.2%) | 0 (0.0%) | 0 (0.0%) | 25 (0.3%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;Risk of Homelessness | 14 (0.3%) | 9 (0.2%) | 0 (0.0%) | 0 (0.0%) | 23 (0.3%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;ROI Declined | 2 (0.0%) | 3 (0.1%) | 0 (0.0%) | 0 (0.0%) | 5 (0.1%) | |  
## |&nbsp;&nbsp;&nbsp;Precariously Housed | 38 (0.8%) | 18 (0.5%) | 0 (0.0%) | 0 (0.0%) | 56 (0.6%) | |  
## |&nbsp;&nbsp;&nbsp;Risk of Homelessness | 1059 (21.8%) | 403 (10.7%) | 7 (38.9%) | 3 (10.0%) | 1472 (17.0%) | |  
## |&nbsp;&nbsp;&nbsp;Risk of Homelessness;DV Referral | 2 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 2 (0.0%) | |  
## |&nbsp;&nbsp;&nbsp;Risk of Homelessness;Precariously Housed | 13 (0.3%) | 3 (0.1%) | 0 (0.0%) | 1 (3.3%) | 17 (0.2%) | |  
## |&nbsp;&nbsp;&nbsp;ROI Declined | 5 (0.1%) | 5 (0.1%) | 0 (0.0%) | 0 (0.0%) | 10 (0.1%) | |

q1.f <- as.data.frame(tbl\_by)

1. Crosstab: CE Screened (all categories) filtered by Need=Housing x Disability Status

tbl\_by <- tableby(Disability\_Status ~ CE\_Screened ,data = needs %>% filter(Need == 'Housing'))  
summary(tbl\_by)

##   
##   
## | | No (N=4609) | Not Collected (N=66) | Refused to Disclose (N=16) | Yes (N=2104) | Total (N=6795) | p value|  
## |:----------------------------------------------------------|:------------:|:--------------------:|:--------------------------:|:------------:|:--------------:|-------:|  
## |\*\*CE\_Screened\*\* | | | | | | < 0.001|  
## |&nbsp;&nbsp;&nbsp;N-Miss | 9 | 0 | 0 | 1 | 10 | |  
## |&nbsp;&nbsp;&nbsp;DV Referral | 177 (3.8%) | 6 (9.1%) | 5 (31.2%) | 40 (1.9%) | 228 (3.4%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless | 3530 (76.7%) | 53 (80.3%) | 9 (56.2%) | 1709 (81.3%) | 5301 (78.1%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;DV Referral | 63 (1.4%) | 0 (0.0%) | 1 (6.2%) | 33 (1.6%) | 97 (1.4%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;Precariously Housed | 9 (0.2%) | 0 (0.0%) | 0 (0.0%) | 4 (0.2%) | 13 (0.2%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;Risk of Homelessness | 8 (0.2%) | 0 (0.0%) | 0 (0.0%) | 10 (0.5%) | 18 (0.3%) | |  
## |&nbsp;&nbsp;&nbsp;Literally Homeless;ROI Declined | 4 (0.1%) | 0 (0.0%) | 0 (0.0%) | 3 (0.1%) | 7 (0.1%) | |  
## |&nbsp;&nbsp;&nbsp;Precariously Housed | 23 (0.5%) | 0 (0.0%) | 0 (0.0%) | 10 (0.5%) | 33 (0.5%) | |  
## |&nbsp;&nbsp;&nbsp;Precariously Housed;DV Referral | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 1 (0.0%) | 1 (0.0%) | |  
## |&nbsp;&nbsp;&nbsp;Risk of Homelessness | 764 (16.6%) | 6 (9.1%) | 0 (0.0%) | 280 (13.3%) | 1050 (15.5%) | |  
## |&nbsp;&nbsp;&nbsp;Risk of Homelessness;DV Referral | 3 (0.1%) | 0 (0.0%) | 0 (0.0%) | 4 (0.2%) | 7 (0.1%) | |  
## |&nbsp;&nbsp;&nbsp;Risk of Homelessness;Precariously Housed | 6 (0.1%) | 0 (0.0%) | 0 (0.0%) | 1 (0.0%) | 7 (0.1%) | |  
## |&nbsp;&nbsp;&nbsp;ROI Declined | 13 (0.3%) | 1 (1.5%) | 1 (6.2%) | 8 (0.4%) | 23 (0.3%) | |

q1.g <- as.data.frame(tbl\_by)

1. Crosstab: CE Screened (all categories) filtered by Need=Housing x Disability Status

tbl\_by <- tableby(Disability\_Status ~ CE\_Screened ,data = needs %>% filter(Need == 'Information Services'))  
#summary(tbl\_by)  
q1.h <- as.data.frame(tbl\_by)

1. Crosstab: CE Screened (all categories) filtered by Need=Housing x Disability Status

tbl\_by <- tableby(Military\_Status ~ CE\_Screened ,data = needs %>% filter(Need == 'Housing'))  
#summary(tbl\_by)  
q1.i <- as.data.frame(tbl\_by)

1. Crosstab: CE Screened (all categories) filtered by Need=Housing x Disability Status

tbl\_by <- tableby(Military\_Status ~ CE\_Screened ,data = needs %>% filter(Need == 'Information Services'))  
#summary(tbl\_by)  
q1.j <- as.data.frame(tbl\_by)