Task 1 Question 2

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7/14/2023

PREP WORK

Libraries

```
library(haven)
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(tidyverse)
## -- Attaching packages ----- tidyverse 1.3.1 --
## v ggplot2 3.3.6 v purrr 0.3.4
## v tibble 3.1.8 v stringr 1.4.0.9000
## v tidyr 1.2.0.9000 v forcats 0.5.1
## v readr
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
library(magrittr)
## Attaching package: 'magrittr'
```

```
## The following object is masked from 'package:purrr':
##
##
       set_names
## The following object is masked from 'package:tidyr':
##
##
       extract
library(readr)
library(ggplot2)
library(lubridate)
## Attaching package: 'lubridate'
## The following objects are masked from 'package:base':
##
##
       date, intersect, setdiff, union
```

Set Working Directory

```
setwd("~/Desktop/pre_doc_task_1")
```

Load Data

QUESTION 2: DATA MANIPULATION

Rename Headers

```
eligibles = X6,
enrollees = X7,
penetration = X8,
ABrate = X9)
```

Change NAs to 0 for eligibles, enrollees, and penetration variables and remove Purto Rico and Guam

Warning in mask\$eval_all_mutate(quo): NAs introduced by coercion

```
# create numberofplans1 variable
ma_enrollment_numberofplans1 <- ma_enrollment %>%
  filter(enrollees > 10) %>%
  group_by(state, countyname) %>%
  summarise(numberofplans1 = n()) %>%
  ungroup()
## 'summarise()' has grouped output by 'state'. You can override using the
## '.groups' argument.
#create numberofplans2 variable
ma_enrollment_numberofplans2 <-</pre>
 ma_enrollment %>%
 filter(penetration > 0.5) %>%
  group_by(state, countyname) %>%
  summarise(numberofplans2 = n())
## 'summarise()' has grouped output by 'state'. You can override using the
## '.groups' argument.
```

Merge new variables to master dataframe

create totalenrollees variable

```
county_enrollment <- ma_enrollment %>%
  group_by(state, countyname) %>%
  summarise(totalenrollees = sum(enrollees)) %>%
  ungroup()
```

'summarise()' has grouped output by 'state'. You can override using the
'.groups' argument.

merge totalenrollees to master df and create totalpenetration

save final dataframe as csv

```
write_csv(ma_enrollment_final, "ma_enrollment_final.csv")
```