Assignment One, Using Dataframes

Load, Clean and Standardize Data

```
# First load data.
library(sqldf)
library(dplyr)
library(stringr)
library(tidyr)
library(ggplot2)
g repo = "https://raw.githubusercontent.com/tonythor/cuny-datascience/"
lf = paste(g_repo, "develop/data/lusitania_manifest.csv", sep = "")
tf = paste(g repo, "develop/data/titanic lifeboats.csv", sep="")
titanic <- read.csv(tf)</pre>
lusitania <- read.csv(lf)</pre>
## Clean and standardize the titanic data set
titanic[c('last_name', 'first_name')]<- str_split_fixed(titanic$name, ',', 2)</pre>
replacements = c('Miss.'='','Master.'='', 'Mrs.'='', 'Mister.'='', 'Mr.'='')
titanic$first_name<- str_replace_all(titanic$first_name, replacements )</pre>
titanic <- dplyr::rename(titanic, c("gender" = "sex"), c("lifeboat" = "boat"))</pre>
titanic_boat= c("titanic")
titanic$boat = titanic_boat
titanic <- titanic %>% mutate_at(c('age'), ~replace_na(.,0))
titanic <- titanic %>% mutate(age = as.numeric(age))
# Could be any column name to filter not. Last row is empty and needs to be dropped.
titanic <- titanic %>% filter(!last name=='')
titanic_clean <- titanic %>% select(boat,last_name, first_name,
                                     survived, gender, age, lifeboat)
## Clean and standardize the Lusitania data set
lusitania_boat= c("lusitania")
lusitania$boat = lusitania_boat
```