LAB-EXERCISE#5_ECHAVERIA

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// Lab Exercise 4 cleaning
library(readr)
library(stringr)
library(dplyr)
# Load Arxiv Scraped Dataset
arxiv <- read_csv("Arxiv_papers_on_Data_Scrape.csv")</pre>
# Extracting the date from the meta column
arxiv_date_only <- str_extract(arxiv$meta, "\\d+\\s[A-Za-z]+\\s\\d+")</pre>
# Changing to date type
arxiv_date_type <- as.Date(arxiv_date_only, format = "%d %b %Y")</pre>
head(arxiv_date_type)
# Removing meta and number column and appending the new date column
# Mutating all while converting other columns to lowercase, removing parenthesis text in the subject co
cleaned_arxiv <- arxiv %>%
     mutate(date = arxiv_date_type,
                        subject = gsub("\s\(.*\)", "", subject),
                        across(where(is.character), tolower)) %>%
     select(-meta, -...1)
# Writing to CSV
write.csv(cleaned_arxiv, "cleaned_arxiv.csv")
// Lab Exercise 5 Cleaning
library(readr)
library(stringr)
library(dplyr)
# Load Arxiv Scraped Dataset
movie_reviews <- read_csv("All Reviews.csv")</pre>
# Extracting the date from the meta column and changing to date type
reviews\_date\_type <- as.Date(str\_extract(movie\_reviews\$date, "\d+\s[A-Za-z]+\s\d+"), format = "%d % format = 
# Extracting the rating from the rating column and changing to integer
reviews_ratings_integer <- as.integer(str_extract(movie_reviews$ratings, "\\d+\\.\\d+"))
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# Removing all emoticons from the columns
movie_reviews$title <- gsub("\\p{So}", "", movie_reviews$title, perl = TRUE)</pre>
movie_reviews$reviewer <- gsub("\\p{So}", "", movie_reviews$reviewer, perl = TRUE)</pre>
movie_reviews$review <- gsub("\\p{So}", "", movie_reviews$review, perl = TRUE)</pre>
# Removing non-alphabetical languages from the columns
movie_reviews$title <- gsub("[^a-zA-Z ]", "", movie_reviews$title)</pre>
movie_reviews$reviewer <- gsub("[^a-zA-Z]", "", movie_reviews$reviewer)</pre>
movie_reviews$review <- gsub("[^a-zA-Z ]", "", movie_reviews$review)</pre>
# Replace all blank string with NA
movie_reviews$title <- na_if(movie_reviews$title, "")</pre>
movie_reviews$reviewer <- na_if(movie_reviews$reviewer, "")</pre>
movie_reviews$review <- na_if(movie_reviews$review, "")</pre>
# Converting all columns to lowercase
movie_reviews <- movie_reviews %>%
 mutate(across(where(is.character), tolower)) %>%
 select(-...1)
# Combine all together
cleaned_reviews <- movie_reviews %>%
  mutate(date = reviews_date_type, ratings = reviews_ratings_integer)
# Writing to CSV
write.csv(cleaned_reviews, "cleaned_reviews.csv")
```