Lab\_10

izd3

Use only commands & functions that are shown in the indicated chapter or prior chapters.

## Problem #01 - Chapter 39 Exercise #1A

# Show your work here  
library(stringr)

## Warning: package 'stringr' was built under R version 4.2.3

senlen<-str\_subset(string = sentences,pattern = 'the')  
head(senlen,n=10)

## [1] "The birch canoe slid on the smooth planks."   
## [2] "Glue the sheet to the dark blue background."   
## [3] "It's easy to tell the depth of a well."   
## [4] "The box was thrown beside the parked truck."   
## [5] "The boy was there when the sun rose."   
## [6] "The source of the huge river is the clear spring."  
## [7] "Kick the ball straight and follow through."   
## [8] "Help the woman get back to her feet."   
## [9] "A pot of tea helps to pass the evening."   
## [10] "The soft cushion broke the man's fall."

length(senlen)

## [1] 408

## Problem #02 - Chapter 40 Exercise #1A

# Show your work here  
senlen<-str\_subset(string = sentences,pattern='ch[aeiou]')  
head(senlen,n=10)

## [1] "These days a chicken leg is a rare dish."   
## [2] "The hogs were fed chopped corn and garbage."   
## [3] "Mesh wire keeps chicks inside."   
## [4] "The set of china hit the floor with a crash."   
## [5] "The ripe taste of cheese improves with age."   
## [6] "Bring your problems to the wise chief."   
## [7] "Write a fond note to the friend you cherish."   
## [8] "The jacket hung on the back of the wide chair."  
## [9] "The child almost hurt the small dog."   
## [10] "A young child should not suffer fright."

length(senlen)

## [1] 51

## Problem #03 - Chapter 38 Exercise 2A

# Show your work here  
library(lubridate)

## Warning: package 'lubridate' was built under R version 4.2.3

##   
## Attaching package: 'lubridate'

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

Dates002.tib$dataData=make\_date(year=Dates002.tib$A,month = Dates002.tib$B,day = Dates002.tib$C)  
Dates002.tib

## # A tibble: 10 × 4  
## A B C dataData   
## <int> <int> <chr> <date>   
## 1 1926 6 07 1926-06-07  
## 2 2008 9 05 2008-09-05  
## 3 2012 8 05 2012-08-05  
## 4 1985 6 24 1985-06-24  
## 5 1917 9 18 1917-09-18  
## 6 1990 2 24 1990-02-24  
## 7 1939 11 21 1939-11-21  
## 8 2002 7 27 2002-07-27  
## 9 1997 6 01 1997-06-01  
## 10 2012 8 18 2012-08-18

## Problem #04 - Chapter 38 Exercise #5B

# Show your work here  
library(ggplot2)

## Warning: package 'ggplot2' was built under R version 4.2.3

Dates006.tib$dateData=ydm(Dates006.tib$dateData)  
Dates006.tib|>  
 ggplot(mapping=aes(x=dateData,y=soilent,color=people))+geom\_line()+facet\_wrap(~people)+  
 scale\_x\_date(breaks = make\_date(year=c(1900,2000,2020)),date\_labels = '%Y')

