

Lab_12

izd3

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

Problem #01 - Chapter 43 Exercise #04

Show your work here

```
library(tidyverse)
```

```
## Warning: package 'tidyverse' was built under R version 4.2.3
```

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

```
## Warning: package 'tibble' was built under R version 4.2.3
```

```
## Warning: package 'purrr' was built under R version 4.2.3
```

```
## Warning: package 'dplyr' was built under R version 4.2.3
```

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

```
## Warning: package 'forcats' was built under R version 4.2.3
```

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

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
```

```
## v dplyr      1.1.2      v readr      2.1.4
```

```
## v forcats   1.0.0      v stringr   1.5.0
```

```
## v ggplot2   3.4.3      v tibble    3.2.1
```

```
## v lubridate 1.9.3      v tidyr     1.3.0
```

```
## v purrr     1.0.2
```

```
## -- Conflicts ----- tidyverse_conflicts() --
```

```
## x dplyr::filter() masks stats::filter()
```

```
## x dplyr::lag()     masks stats::lag()
```

```
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
mynew<-columns002.tib|>
```

```
  mutate(
    snack=var.01*2,
    dooby=B.68+corn01,
    zonks=abs(A.12-var.03),
    jinkies=soup.02
  )
```

```
mynew
```

```
## # A tibble: 2 x 13
```

```
##   B.68 var.02 A.12 var.01 corn01 soup.01 var.03 cow02 soup.02 snack dooby
```

```
##   <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
```

```
## 1    94    45    72    76    76    70    89    45      1   152   170
```

```
## 2     3    62    56    74    74    61    28    62     17   148    77
```

```
## # i 2 more variables: zonks <dbl>, jinkies <dbl>
```

Problem #02 - Chapter 44 Exercise #01A

Show your work here

Joins001.dat

```
##          LASTNAME FIRSTNAME SHOE_SIZE
## 1      Deherrera      Jacob        7.5
## 2          Conner    Deshaun       11.0
## 3          Joel      Draven        4.5
## 4 Williams Sanders    Albert       11.5
## 5          Vogt Chantelle       11.5
## 6          al-Azad    Jessica       4.0
## 7          Robbins    Joseph       10.0
```

Joins002.tib

```
## # A tibble: 5 x 3
##   LASTNAME      FIRSTNAME 'Favorite Color'
##   <chr>         <chr>         <chr>
## 1 Deherrera      Jacob      honeydew4
## 2 al-Azad        Jessica    olivedrab1
## 3 Robbins         Albert     gray51
## 4 Joel           Joseph     gray36
## 5 Williams Sanders Chantelle  grey56
```

```
inner_join(x=Joins001.dat,y=Joins002.tib,by=c("LASTNAME","FIRSTNAME"))
```

```
##   LASTNAME FIRSTNAME SHOE_SIZE Favorite Color
## 1 Deherrera      Jacob        7.5      honeydew4
## 2   al-Azad    Jessica        4.0      olivedrab1
```

Problem #03 - Chapter 45 Exercise #01A

Show your work here

```
full_join(x=Joins001.dat,y=Joins002.tib,by=c("LASTNAME","FIRSTNAME"))
```

##	LASTNAME	FIRSTNAME	SHOE_SIZE	Favorite Color
## 1	Deherrera	Jacob	7.5	honeydew4
## 2	Conner	Deshaun	11.0	<NA>
## 3	Joel	Draven	4.5	<NA>
## 4	Williams Sanders	Albert	11.5	<NA>
## 5	Vogt	Chantelle	11.5	<NA>
## 6	al-Azad	Jessica	4.0	olivedrab1
## 7	Robbins	Joseph	10.0	<NA>
## 8	Robbins	Albert	NA	gray51
## 9	Joel	Joseph	NA	gray36
## 10	Williams Sanders	Chantelle	NA	grey56

Problem #04 - Chapter 48 Exercise #01

Show your work here

```
MyLongTibble<-pivot_longer(data = Wide001.tib,cols = c("type1","type2","type3"),names_to = "TYPE",
  values_to = "alphabet")
MyLongTibble
```

```
## # A tibble: 6 x 3
##   COLOUR      TYPE alphabet
##   <chr>      <chr> <chr>
## 1 mediumturquoise type1 E
## 2 mediumturquoise type2 P
## 3 mediumturquoise type3 G
## 4 peru       type1 C
## 5 peru       type2 N
## 6 peru       type3 U
```

Long001a.tib

```
## # A tibble: 6 x 3
##   COLOUR      TYPE alphabet
##   <chr>      <chr> <chr>
## 1 mediumturquoise type1 E
## 2 mediumturquoise type2 P
## 3 mediumturquoise type3 G
## 4 peru       type1 C
## 5 peru       type2 N
## 6 peru       type3 U
```