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library(readxl)
library(dplyr)
library(purrr)
library(stringr)

housing_data <- read_xlsx("data\\week-7-housing.xlsx")
colnames(housing_data)[1:2] <- c("sale_date", "sale_price")
housing_data
head(housing_data)

#-----

# a.

# summarize and group_by
housing_data %>% group_by(ctyname) %>% summarize(mean(sale_price))

# mutate and select
housing_data %>%
  select(sale_price, square_feet_total_living) %>%
  mutate(sale_price/square_feet_total_living)

#filter
housing_data %>% filter(bath_full_count > 2, sale_price < 300000)

#arrange
housing_data %>% arrange(desc(sale_price))

#-----

# b.

housing_data %>% map(median)
housing_data$sale_price %>% discard(function(x) x>300000)

#-----

# c.

housing_data_subset_1 <- housing_data[1:10,]
housing_data_subset_2 <- housing_data[25:30,]

housing_data_subset_comb <- rbind(housing_data_subset_1,
housing_data_subset_2)

housing_data_subset_1 <- housing_data[1:10,1:4]
housing_data_subset_2 <- housing_data[1:10,5:24]

housing_data_subset_comb <- cbind(housing_data_subset_1,
housing_data_subset_2)

#-----

# d.

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```
some_string <- "This is a string of text. We will split it apart, then  
concatonate it back together."
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```
string_list <- strsplit(some_string, split = " ")
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```
new_string <- paste(string_list[[1]], collapse=" ")
```