ITKM549-Assignment5

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# Question 1 Provide a list of employees in descending order on last name.

library (tidyverse)

## Warning: package 'tidyverse' was built under R version 3.5.3

## -- Attaching packages --------------------- tidyverse 1.2.1 --

## v ggplot2 3.1.0 v purrr 0.3.2
## v tibble 2.0.1 v dplyr 0.8.0.1
## v tidyr 0.8.3 v stringr 1.4.0
## v readr 1.3.1 v forcats 0.4.0

## Warning: package 'ggplot2' was built under R version 3.5.3

## Warning: package 'tidyr' was built under R version 3.5.3

## Warning: package 'purrr' was built under R version 3.5.3

## Warning: package 'dplyr' was built under R version 3.5.3

## Warning: package 'stringr' was built under R version 3.5.3

## Warning: package 'forcats' was built under R version 3.5.3

## -- Conflicts ------------------------ tidyverse\_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()

library(readxl)

## Warning: package 'readxl' was built under R version 3.5.3

EmployeeT <- read\_excel("C:/Users/frank/Downloads/EmployeeT.xlsx")

sorted\_by\_lastname\_desc <- EmployeeT %>%
 arrange(desc(EmployeeLastName))
 head(sorted\_by\_lastname\_desc)

## # A tibble: 6 x 8
## EmployeeID EmployeeRegionID EmployeeRole EmployeeFirstNa~
## <dbl> <dbl> <chr> <chr>
## 1 6 1 Manager Desiree
## 2 3 2 Sales Rep Sam
## 3 9 1 Sales Rep Noah
## 4 2 2 Sales Rep Roger
## 5 4 2 Sales Rep Chloe
## 6 14 3 Sales Rep Fred
## # ... with 4 more variables: EmployeeLastName <chr>, EmployeeSSN <chr>,
## # EmployeePhoneNumber <chr>, EmployeeEMailAddress <chr>

# Question 2 Tell me the number of unique customers the company has.

library(readxl)
CustomerT <- read\_excel("C:/Users/frank/Downloads/CustomerT.xlsx")

filtered\_CustomerID\_unique <- CustomerT %>%
 distinct()
 nrow(filtered\_CustomerID\_unique)

## [1] 20

# Question 3 Give me a list of all the customers that live in New York.

cusotmer\_live\_ny <- CustomerT %>%
 filter(CustomerState =="NY")
 head(cusotmer\_live\_ny)

## # A tibble: 6 x 11
## CustomerID CustomerEmploye~ CustomerFirstNa~ CustomerLastName
## <dbl> <dbl> <chr> <chr>
## 1 10 14 Edward Koch
## 2 12 14 Lou Reed
## 3 13 13 Washington Irving
## 4 14 12 Louis C.K.
## 5 15 8 Luis Litt
## 6 16 2 Harvey Specter
## # ... with 7 more variables: CustomerStreetAddress <chr>,
## # CustomerCity <chr>, CustomerState <chr>, CustomerPostalCode <chr>,
## # CustomerPhoneNumber <chr>, CustomerEMail <chr>, CustomerNotes <chr>

# Question 4. I need a list of all region managers.

region\_manager <- EmployeeT %>%
 filter(EmployeeRole == "Manager")
 head(region\_manager)

## # A tibble: 3 x 8
## EmployeeID EmployeeRegionID EmployeeRole EmployeeFirstNa~
## <dbl> <dbl> <chr> <chr>
## 1 1 2 Manager Phil
## 2 6 1 Manager Desiree
## 3 11 3 Manager Steve
## # ... with 4 more variables: EmployeeLastName <chr>, EmployeeSSN <chr>,
## # EmployeePhoneNumber <chr>, EmployeeEMailAddress <chr>

# Question 5. Give me a list of customers whose first names start with the letter S

customer\_first\_name<- CustomerT %>%
 filter (str\_detect(CustomerFirstName,"S"))
 head(customer\_first\_name)

## # A tibble: 5 x 11
## CustomerID CustomerEmploye~ CustomerFirstNa~ CustomerLastName
## <dbl> <dbl> <chr> <chr>
## 1 6 2 Scottie Pippen
## 2 8 3 Salman Rushdie
## 3 9 5 Soledad O'Brien
## 4 19 7 Smith Taylor
## 5 20 9 Shawn Roberts
## # ... with 7 more variables: CustomerStreetAddress <chr>,
## # CustomerCity <chr>, CustomerState <chr>, CustomerPostalCode <chr>,
## # CustomerPhoneNumber <chr>, CustomerEMail <chr>, CustomerNotes <chr>