ITKM549-Assignment5

peipeiwu

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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>