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# DPLYR Package: Data wrangling or manipulation package
# 6 functions in dplyr()
\# 1. filter() - to extract rows based on certain conditions
# 2. select() - to select particular column
# 3. arrange() - it will sort the data
# 4. groupby() - to group the data (need to use summmarise or mutate)
# 5. summarise() - to aggregate the data
# 6. mutate() - to create a new derived cloumn
# pipeline statement - %>%
# dataname %>% function1 %>% function2
# installing dplyr package
install.packages("dplyr")
library(dplyr)
# set working directory
setwd("D:/RISE - WPU/R Studio")
getwd()
# read the dataset
hrdata = read.csv("HRDataset v13.csv")
View(hrdata)
# select () - To select the column empname, ID, position, state, dept &
payrate
colnames(hrdata)
hr select = hrdata %>%
select (Employee Name, EmpID, Position, State, Department, PayRate)
View(hr select)
# : - to select the range of columns
hr select2 = hrdata %>% select(MarriedID : FromDiversityJobFairID)
View(hr select2)
# to exclude any columns
hr select3 = hrdata %>% select(-c(MarriedID,GenderID,PerfScoreID,PositionID))
View(hr select3)
# 2. filter()
# employment status is active
hr filter = hrdata %>% filter(EmploymentStatus == "Active")
View(hr filter)
# to filter where perfomance score are not fully meets and exceed
hrdata$PerformanceScore
hr filter2 = hrdata %>% filter(!PerformanceScore == "Fully Meets"
                               & !PerformanceScore == "Exceeds")
View(hr filter2)
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# to filter PS is PIP or status is active
hr filter3 = hrdata %>% filter(PerformanceScore == "PIP"
                               | EmploymentStatus == "Active")
View(hr filter3)
# 3. arrange()
# to arrange pay rate in asc. order
hr arrange = hrdata %>% arrange(PayRate)
View(hr arrange)
# pay rate > 50 and arrange in dsc order
hr_arrange2 = hrdata %>% filter(PayRate>50) %>% arrange(desc(PayRate))
View(hr arrange2)
# Select the columns Employee name, emp id, pay rate, performance score,
employee satisfaction
## and special projects counts
## Filter the data where pay rate is lower than 50 and employee satisfaction
is less than 3
## find out the who has the lowest pay rate
hr data1 = hrdata %>% select(Employee Name, EmpID, PayRate, PerformanceScore,
                             EmpSatisfaction, SpecialProjectsCount) %>%
 filter(PayRate<50 & EmpSatisfaction<3) %>% arrange(PayRate) %>%
 nrow()
hr data1
View(hr data1)
# New Dataset: Superstore
library(readxl)
store = read excel("D:/RISE - WPU/R Studio/Sample-Superstore-Subset-
Excel.xlsx")
View(store)
## PS: Give me the row ID where order priority is not
#cricital, customer segment is business,
## product container is wrap bag and the sales is the highest
store_data = store %>% select(`Row ID`, `Order Priority`, `Customer Segment`,
`Product Container`, Sales) %>%
 filter(!`Order Priority` == "Critical" & `Customer Segment` == "Small
Business" & `Product Container` == "Wrap Bag") %>%
  arrange(desc(Sales))
View(store data)
```