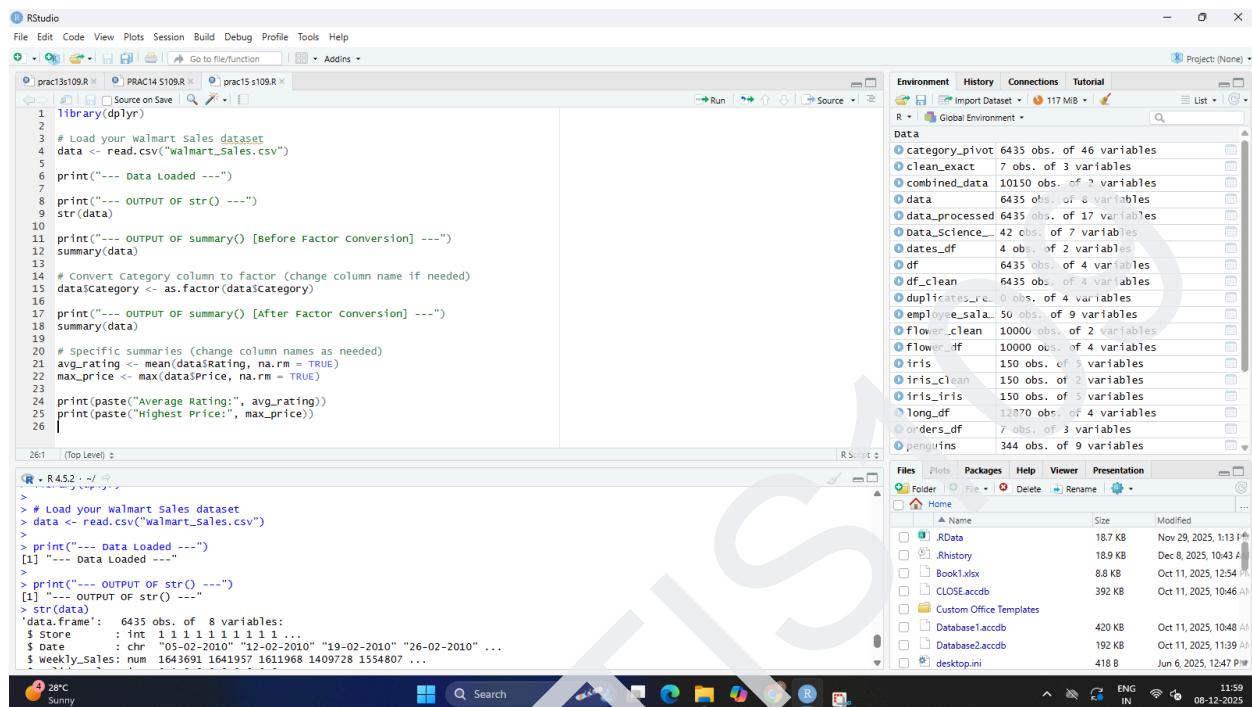


SHETH L.U.J AND M.V COLLEGE
PRACTICAL NO .15
SUBJECT - DATA ANALYSIS

Aim - 15. Generating basic summaries using str() or summary() (R).

Input -

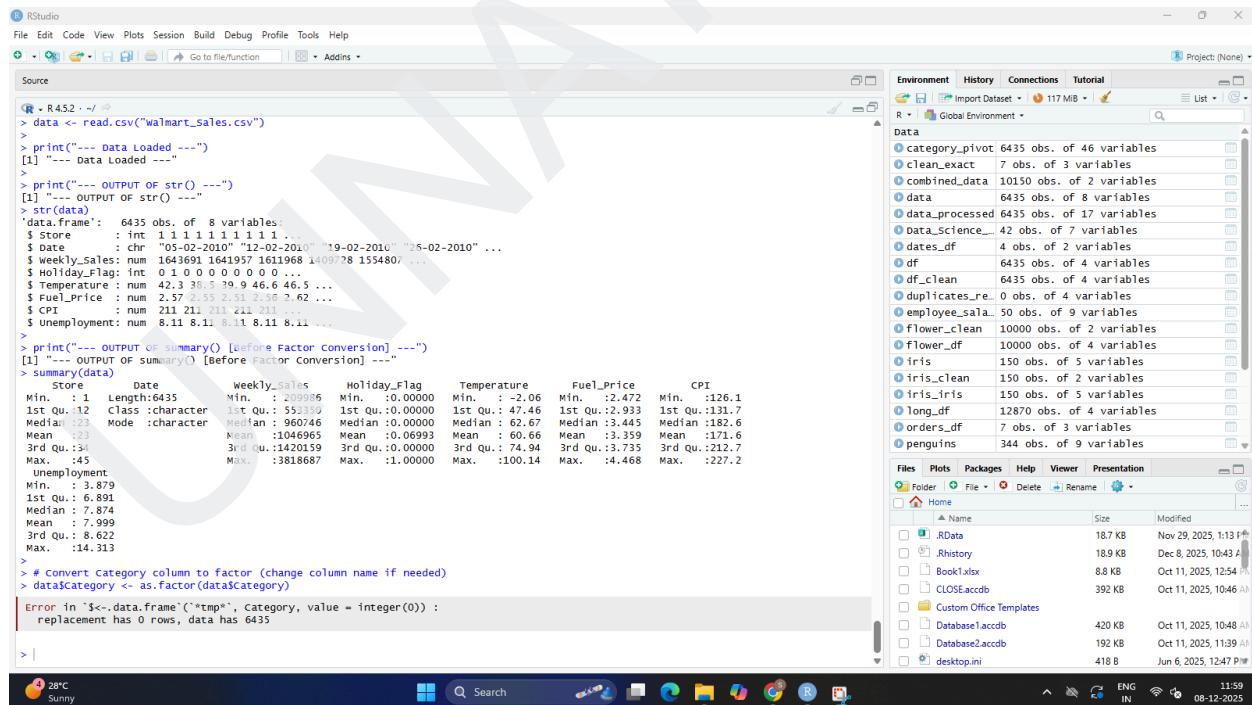


```

library(dplyr)
# Load your walmart sales dataset
data <- read.csv("walmart_sales.csv")
print("--- Data Loaded ---")
print("--- OUTPUT OF str() ---")
str(data)
print("--- OUTPUT OF summary() [Before Factor conversion] ---")
summary(data)
# Convert Category column to factor (change column name if needed)
data$category <- as.factor(data$category)
print("--- OUTPUT OF summary() [After Factor conversion] ---")
summary(data)
# Specific summaries (change column names as needed)
avg_rating <- mean(data$rating, na.rm = TRUE)
max_price <- max(data$Price, na.rm = TRUE)
print(paste("Average Rating:", avg_rating))
print(paste("Highest Price:", max_price))

```

OUTPUT -



```

[1] "Data Loaded"
[1] "--- OUTPUT OF str() ---"
'data.frame': 6435 obs. of 8 variables:
 $ Store    : int 1 1 1 1 1 1 1 1 ...
 $ Date     : chr "05-02-2010" "12-02-2010" "19-02-2010" "26-02-2010" ...
 $ Weekly_Sales: num 1643691 1641957 1611968 1409728 1554807 ...
 $ StoreDay_Flag: num 0 0 0 0 0 0 0 ...
 $ Temperature: num 12.3 15.5 19.9 46.6 46.5 ...
 $ Fuel_Price : num 2.57 2.55 2.56 2.62 2.62 ...
 $ CPI       : num 211.211 211.211 211.211 ...
 $ Unemployment: num 8.11 8.11 8.11 8.11 ...
> print("--- OUTPUT OF summary() [Before Factor Conversion] ---")
[1] "--- OUTPUT OF summary() [Before Factor Conversion] ---"
> summary(data)
Store      Date      Weekly_Sales   holiday_flag   Temperature   Fuel_Price   Min.CPI
Min. : 1   Length:6435   Min. :209986   Min. :0.0000   Min. :-2.06   Min. :2.472   Min. :126.1
1st Qu.: 12  Class :character 1st Qu.:552350  1st Qu.:0.00000 1st Qu.:47.46  1st Qu.:2.933  1st Qu.:131.7
Median :23  Mode  :character Median :960746  Median :0.00000 Median :62.67  Median :3.445  Median :182.6
Mean   :23  Mean   :1046965  Mean   :0.06993 Mean   :60.66  Mean   :3.359  Mean   :171.6
3rd Qu.:34  3rd Qu.:1420159 3rd Qu.:0.00000 3rd Qu.:74.94  3rd Qu.:3.735  3rd Qu.:212.7
Max.  :45  Max.  :3818687  Max.  :1.00000  Max.  :100.14  Max.  :4.468  Max.  :227.2
Unemployment
Min. : 3.879
1st Qu.: 6.224
Median : 7.874
Mean   : 7.999
3rd Qu.: 8.622
Max.  :14.313
> # convert Category column to factor (change column name if needed)
> data$category <- as.factor(data$category)
Error in `<- data.frame(*tmp*, category, value = integer(0))`:
 replacement has 0 rows, data has 6435
> |

```

NAME - UNNATI RATHOD
ROLL NO S109