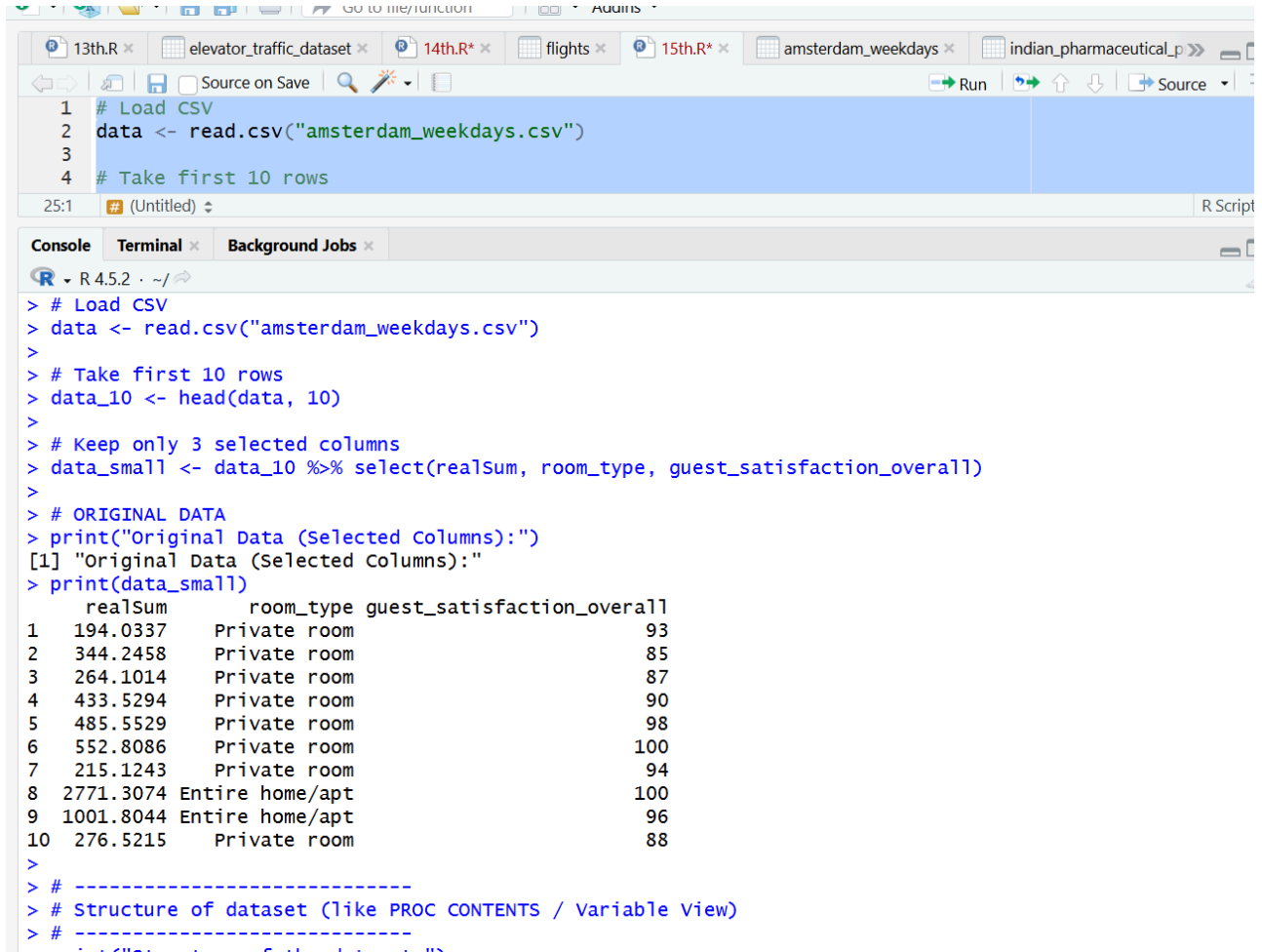


# Sheth I.u.j. And sir m.v. college of arts science and commerce

## Practical no.15th

Aim: 15Generating basic summaries using PROC CONTENTS (SAS), Variable View (SPSS), and str() or summary() (R).



The screenshot shows the R Studio environment. The top pane displays an R script with the following code:

```
1 # Load CSV
2 data <- read.csv("amsterdam_weekdays.csv")
3
4 # Take first 10 rows
```

The bottom pane shows the console output for the script:

```
> # Load CSV
> data <- read.csv("amsterdam_weekdays.csv")
>
> # Take first 10 rows
> data_10 <- head(data, 10)
>
> # Keep only 3 selected columns
> data_small <- data_10 %>% select(realSum, room_type, guest_satisfaction_overall)
>
> # ORIGINAL DATA
> print("Original Data (Selected Columns):")
[1] "Original Data (Selected Columns):"
> print(data_small)
  realSum    room_type guest_satisfaction_overall
1  194.0337 Private room                        93
2  344.2458 Private room                        85
3  264.1014 Private room                        87
4  433.5294 Private room                        90
5  485.5529 Private room                        98
6  552.8086 Private room                       100
7  215.1243 Private room                        94
8 2771.3074 Entire home/apt                     100
9 1001.8044 Entire home/apt                       96
10 276.5215 Private room                         88
>
> # -----
> # Structure of dataset (like PROC CONTENTS / Variable View)
> # -----
```

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Go to file/function Addins

13th.R x elevator\_traffic\_dataset x 14th.R x flights x 15th.R\* x amsterdam\_weekdays x indian\_pharmaceutical\_p x

```
1 # Load CSV
2 data <- read.csv("amsterdam_weekdays.csv")
3
4 # Take first 10 rows
```

25:1 (Untitled) R Script

Console Terminal Background Jobs

R 4.5.2 ~/  
9 1001.8044 Entire home/apt 96  
10 276.5215 Private room 88  
>  
> # -----  
> # Structure of dataset (like PROC CONTENTS / Variable View)  
> # -----  
> print("Structure of the dataset:")  
[1] "Structure of the dataset:"  
> str(data\_small)  
'data.frame': 10 obs. of 3 variables:  
 \$ realSum : num 194 344 264 434 486 ...  
 \$ room\_type : chr "Private room" "Private room" "Private room" "Private room" ...  
 \$ guest\_satisfaction\_overall: num 93 85 87 90 98 100 94 100 96 88  
>  
> # -----  
> # Summary statistics (like PROC SUMMARY / DESCRIPTIVES)  
> # -----  
> print("Summary statistics of the dataset:")  
[1] "Summary statistics of the dataset:"  
> summary(data\_small)  
 realSum room\_type guest\_satisfaction\_overall  
Min. : 194.0 Length:10 Min. : 85.0  
1st Qu.: 267.2 Class :character 1st Qu.: 88.5  
Median : 388.9 Mode :character Median : 93.5  
Mean : 653.9 Mean : 93.1  
3rd Qu.: 536.0 3rd Qu.: 97.5  
Max. : 2771.3 Max. : 100.0  
>

Environment  
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