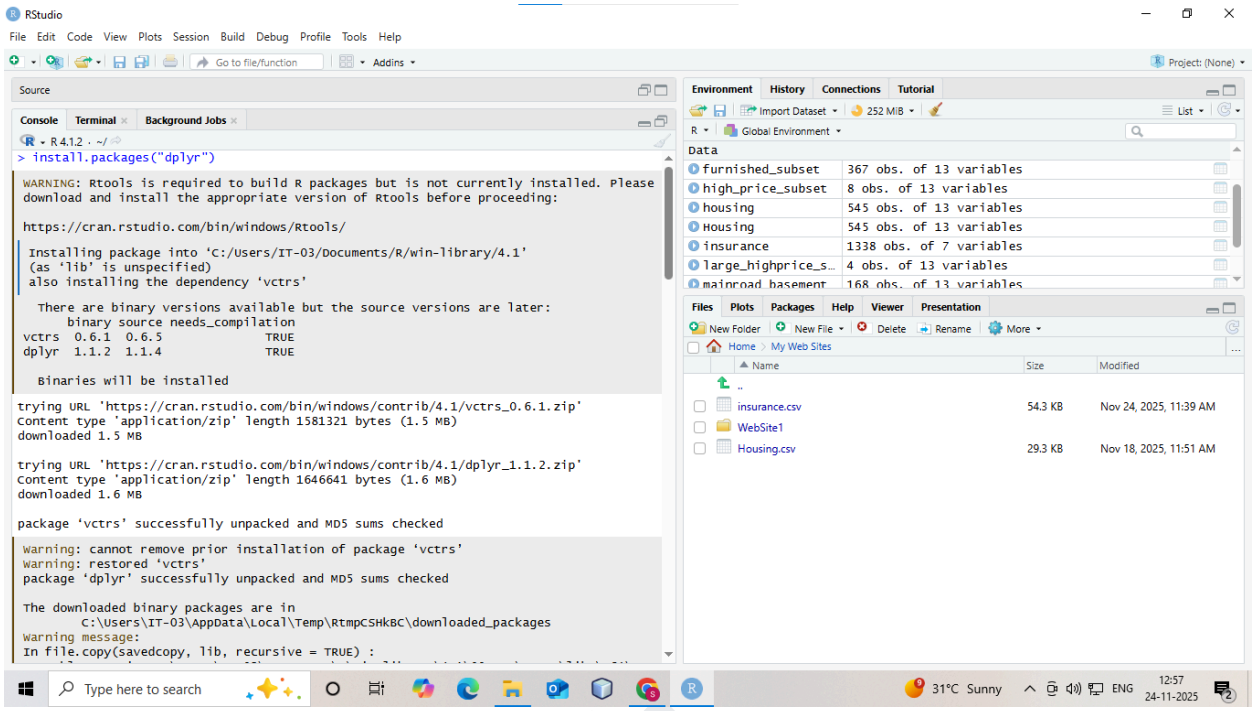
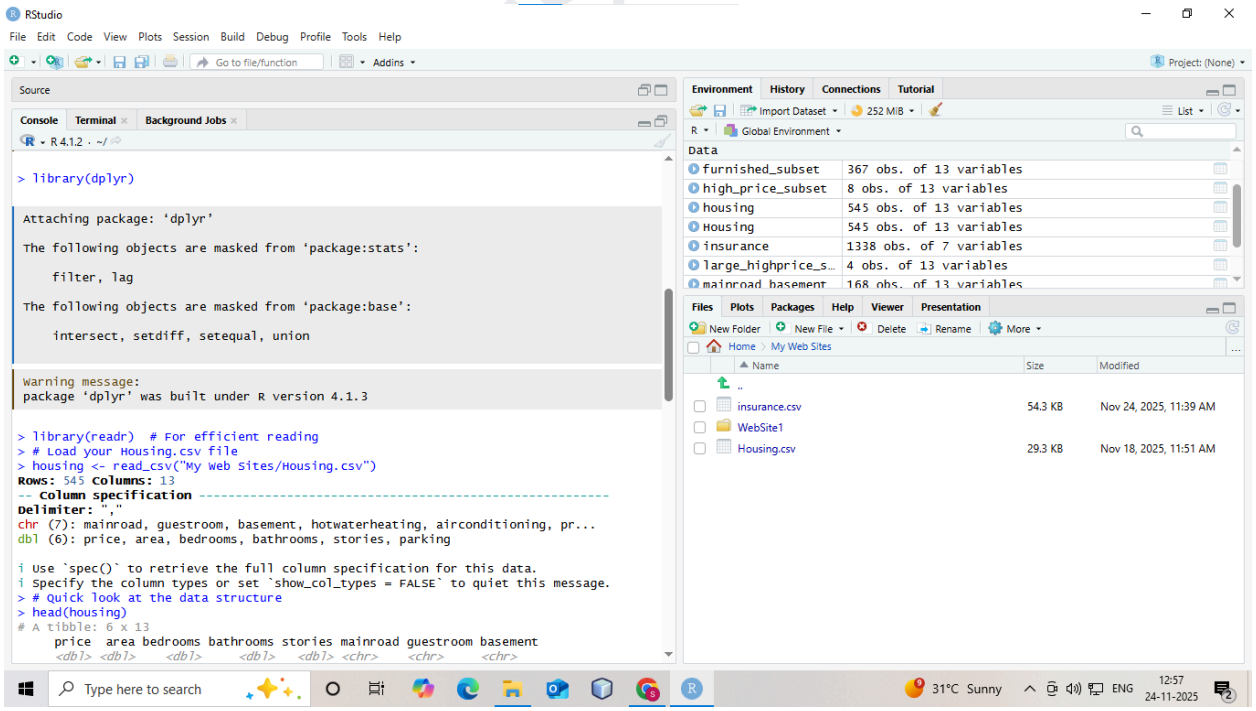
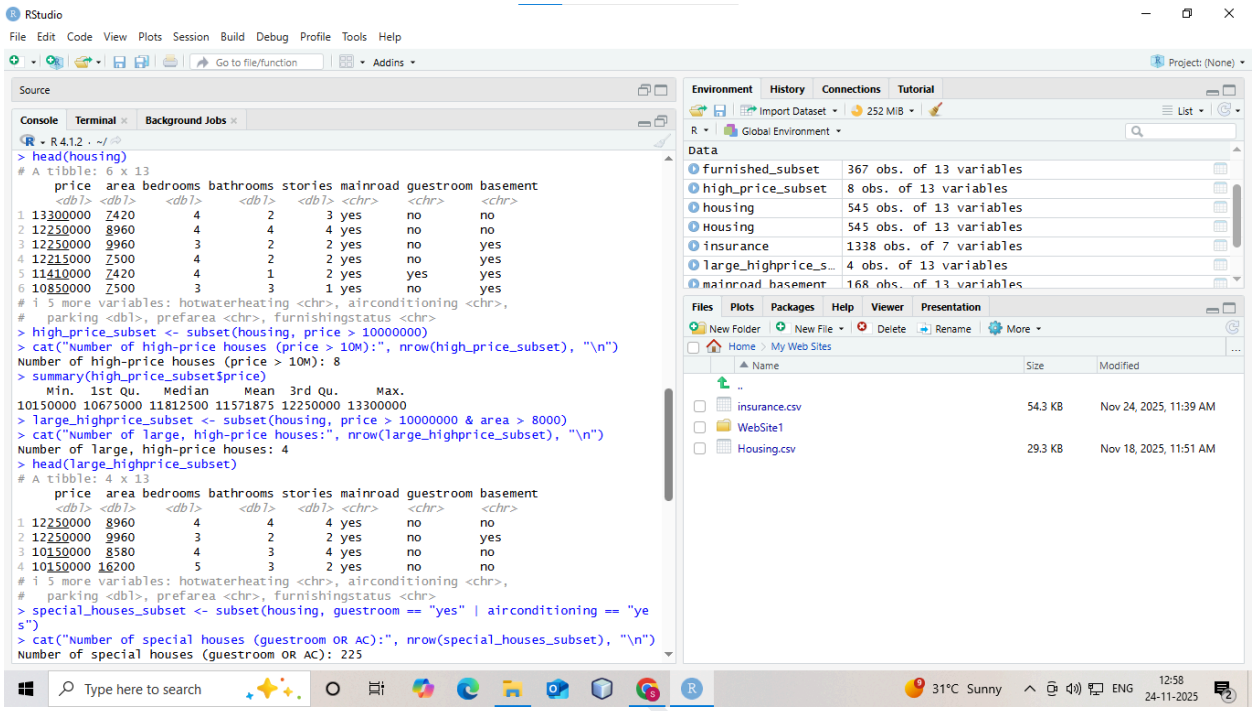
SHETH L.U.J. AND SIR M.V. COLLEGE

PRACTICAL NO:4

AIM:Applying conditional filters subset() or filter() in R






RStudio
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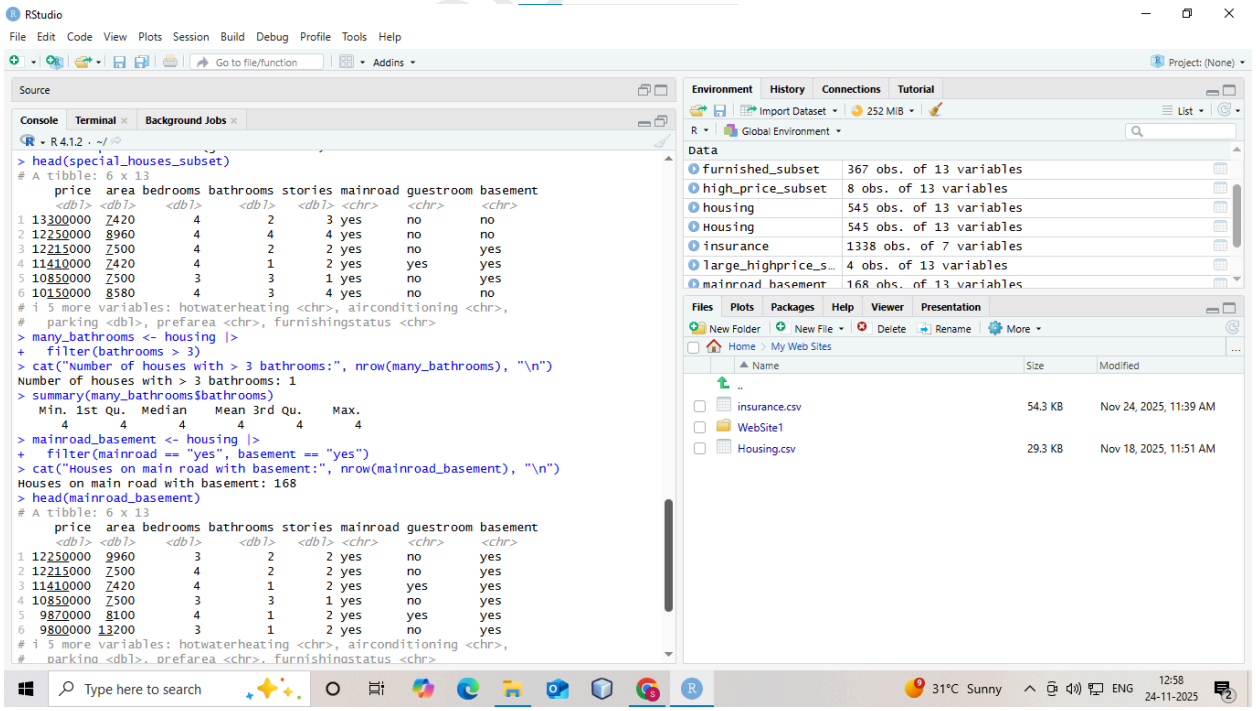
Source
Console Terminal Background Jobs
R 4.1.2 · ~/
> head(housing)
A tibble: 6 x 13
price area bedrooms bathrooms stories mainroad guestroom basement
<dbl> <dbl> <dbl> <dbl> <dbl> <chr> <chr> <chr>
1 13300000 7420 4 2 3 yes no no
2 12250000 8960 4 4 4 yes no no
3 12250000 9960 3 2 2 yes no yes
4 12215000 7500 4 2 2 yes no yes
5 11410000 7420 4 1 2 yes yes yes
6 10850000 7500 3 3 1 yes no yes
i 5 more variables: hotwaterheating <chr>, airconditioning <chr>,
parking <dbl>, prefarea <chr>, furnishingstatus <chr>
> high_price_subset <- subset(housing, price > 10000000)
> cat("Number of high-price houses (price > 10M):", nrow(high_price_subset), "\n")
Number of high-price houses (price > 10M): 8
> summary(high_price_subset$price)
Min. 1st Qu. Median Mean 3rd Qu. Max.
10150000 10675000 11812500 11571875 12250000 13300000
> large_highprice_subset <- subset(housing, price > 10000000 & area > 8000)
> cat("Number of large, high-price houses:", nrow(large_highprice_subset), "\n")
Number of large, high-price houses: 4
> head(large_highprice_subset)
A tibble: 4 x 13
price area bedrooms bathrooms stories mainroad guestroom basement
<dbl> <dbl> <dbl> <dbl> <dbl> <chr> <chr> <chr>
1 12250000 8960 4 4 4 yes no no
2 12250000 9960 3 2 2 yes no yes
3 10150000 8580 4 3 4 yes no no
4 10150000 16200 5 3 2 yes no no
i 5 more variables: hotwaterheating <chr>, airconditioning <chr>,
parking <dbl>, prefarea <chr>, furnishingstatus <chr>
> special_houses_subset <- subset(housing, guestroom == "yes" | airconditioning == "yes")
> cat("Number of special houses (guestroom OR AC):", nrow(special_houses_subset), "\n")
Number of special houses (guestroom OR AC): 225
Environment History Connections Tutorial
Import Dataset 252 MiB
Global Environment
Data
furnished_subset 367 obs. of 13 variables
high_price_subset 8 obs. of 13 variables
housing 545 obs. of 13 variables
Housing 545 obs. of 13 variables
insurance 1338 obs. of 7 variables
large_highprice_s... 4 obs. of 13 variables
mainroad_basement 168 obs. of 13 variables
Files Plots Packages Help Viewer Presentation
New Folder New File Delete Rename More
Home My Web Sites
Name Size Modified
insurance.csv 54.3 KB Nov 24, 2025, 11:39 AM
WebSite1
Housing.csv 29.3 KB Nov 18, 2025, 11:51 AM
Type here to search
31°C Sunny
ENG
12:58
24-11-2025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> head(special_houses_subset)
A tibble: 6 x 13
price area bedrooms bathrooms stories mainroad guestroom basement
<dbl> <dbl> <dbl> <dbl> <dbl> <chr> <chr> <chr>
1 13300000 7420 4 2 3 yes no no
2 12250000 8960 4 4 4 yes no no
3 12215000 7500 4 2 2 yes no yes
4 11410000 7420 4 1 2 yes yes yes
5 10850000 7500 3 3 1 yes no yes
6 10150000 8580 4 3 4 yes no no
i 5 more variables: hotwaterheating <chr>, airconditioning <chr>,
parking <dbl>, prefarea <chr>, furnishingstatus <chr>
> many_bathrooms <- housing |>
+ filter(bathrooms > 3)
> cat("Number of houses with > 3 bathrooms:", nrow(many_bathrooms), "\n")
Number of houses with > 3 bathrooms: 1
> summary(many_bathrooms$bathrooms)
Min. 1st Qu. Median Mean 3rd Qu. Max.
4 4 4 4 4 4
> mainroad_basement <- housing |>
+ filter(mainroad == "yes", basement == "yes")
> cat("Houses on main road with basement:", nrow(mainroad_basement), "\n")
Houses on main road with basement: 168
> head(mainroad_basement)
A tibble: 6 x 13
price area bedrooms bathrooms stories mainroad guestroom basement
<dbl> <dbl> <dbl> <dbl> <dbl> <chr> <chr> <chr>
1 12250000 9960 3 2 2 yes no yes
2 12215000 7500 4 2 2 yes no yes
3 11410000 7420 4 1 2 yes yes yes
4 10850000 7500 3 3 1 yes no yes
5 9870000 8100 4 1 2 yes yes yes
6 9800000 13200 3 1 2 yes no yes
i 5 more variables: hotwaterheating <chr>, airconditioning <chr>,
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