

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

Selecting and dropping variables using `select()` in R.  
import dataset.

The screenshot shows the RStudio interface with the following details:

- Top Bar:** RStudio, File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Source Panel:** Shows R code execution. The user has loaded the dplyr and readr packages, read a CSV file named "Attendance\_Prediction.csv", and printed its first three rows. The code then specifies column types and prints the head of the dataset again.
- Environment Panel:** Displays the global environment with various datasets loaded, such as dropped\_one, dropped\_range, energy, final\_data, Food\_Delivery\_Route..., high\_cost, high\_cost\_low\_occ, high\_cost\_not\_se, and high\_salary.
- Files Panel:** Shows the project structure with files like Practical\_No\_3.R, Practical\_No\_4.R, Practical\_No\_5.R, Practical\_No\_6.R, Processed\_Student\_Mental\_Health.csv, S093\_CHEATAN\_MANDAVKAR FEATURE ENGINEERING SUBMISSION - Colab 3, S093\_Cheatan\_Mandavkar\_FP\_Soft\_Copy\_Documentation\_1[1].docx, SHRUTI MANDAVKAR EVS REPORT.pdf, Structure and functions of pancreas Shruti Mandavkar.pptx, Virtual Machines, WhatsApp Image 2025-11-25 at 19.51.57\_2b9447da.jpg, Attendance\_Prediction.csv, product\_sales\_dataset\_final.csv, Practical\_No\_6.R, synthetic\_fraud\_dataset.csv, and Practical\_No\_7.R.
- Bottom Bar:** Shows system icons for battery (25% Sunny), search, calendar, file, browser, and network.

The screenshot shows the RStudio interface with two panes. The left pane is the 'Console' showing R code execution and error messages. The right pane is the 'Environment' browser displaying the current workspace.

**Console**

```
R> R4.5.2
> 201.  3.63 7.24
> range_cols <- attendance %>% 
+ select_(.by = "study_hours")
> print(" Selected Range of Columns (age to study_hours) ---")
[1] " Selected Range of Columns (age to study_hours) ---"
> print(head(range_cols, 3))
# A tibble: 3 × 10
  age gender course year parent_education internet_access hostel_resident class_type weather
  <dbl> <chr>   <chr> <chr>   <chr>   <chr>   <chr>   <chr>   <chr>
1 201.  <chr>   <chr>   <chr>   <chr>   <chr>   <chr>   <chr>   <chr>
2 201.  male    b.sc    2nd   high school yes     yes     online   sunny
3 201.  male    b.sc    3rd   no formal  yes     yes     online   cloudy
# i 1 more variable: study_hours <dbl>
> starts_with_(.by = "attendance") %>%
+ select_(.by = "starts_with_(C(''))")
> print(" Selected Columns Starting with 'S' ---")
[1] " --- Selected Columns Starting with 'S' ---"
> print(names(dropped_one))

Error: object 'dropped_one' not found
```

**Environment**

Object	Type	Description	Size	Modified
dropped_one	data frame	20000 obs. of 14 variables	344 KB	Nov 24, 2023, 10:01 PM
dropped_range	data frame	20000 obs. of 5 variables	1.3 KB	Nov 24, 2025, 7:12 PM
energy	data frame	5000 obs. of 6 variables	975 B	Nov 24, 2025, 8:42 PM
final_data	data frame	200002 obs. of 14 variables	728 B	Nov 24, 2025, 7:53 PM
Food_Delivery_Route	data frame	200 obs. of 10 variables	672 B	Nov 24, 2025, 8:53 PM
high_cost	data frame	1101 obs. of 6 variables	61.1 KB	Nov 18, 2025, 10:58 AM
high_cost_low_occ	data frame	118 obs. of 6 variables	495 B	Jul 27, 2025, 4:18 PM
high_cost_not_se	data frame	495 obs. of 6 variables	45.1 KB	Oct 15, 2025, 8:30 PM
high_salary	data frame	1093 obs. of 12 variables	357.3 KB	Nov 21, 2025, 7:34 PM

**NAME:- CHETAN MANDAVKAR**  
**ROLL NO. S093**  
**SUBJECT:- Data Analysis with SAS / SPSS /R**

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

The screenshot shows the RStudio environment. In the top-left, the Source pane displays R code and its output. The code involves selecting columns from a dataset, dropping specific columns like 'gender' and 'age', and then dropping rows based on a range of values. The output shows the resulting dataset structure. The top-right pane, titled 'Environment', lists various objects in the global environment, such as 'dropped\_one', 'dropped\_range', 'final\_data', and several datasets like 'Food\_Delivery\_Route\_'. The bottom-right pane shows a file browser with a list of files in the 'Home' directory, including practical reports and a processed student mental health CSV.

```
> select(starts_with("s"))
> print("--- Selected Columns Starting with 'S' ---")
[1] "Selected Columns Starting with 'S' ---"
> print(names(dropped_one))
Error: object 'dropped_one' not found

> print(head(starts_with_s, 3))
# A tibble: 3 × 3
  student_id study_hours sleep_hours
    <dbl>        <dbl>      <dbl>
1   201.       3.63     7.24
2   201.       4.39     7.98
3   201.       5.43     6.53
> dropped_one <- attendance %>%
+ select(-gender)
> print("--- Dataset with 'gender' Dropped ---")
[1] "Dataset with 'gender' Dropped ---"
> dropped_multiple <- attendance %>%
+ select(-attendance, -study_hours)
> print("--- Dataset with Multiple Columns Dropped ---")
[1] "--- Dataset with Multiple Columns Dropped ---"
> print(names(dropped_multiple))
[1] "student_id"      "age"           "gender"         "course"
[5] "year"            "parent_education" "internet_access" "hostel_resident"
[9] "class_type"       "weather"        "sleep_hours"    "travel_time_minutes"
[13] "absence_reason"
>
> dropped_range <- attendance %>%
+ select(-(age:study_hours))
> print("--- Dataset with Range (age to study_hours) Dropped ---")
[1] "--- Dataset with Range (age to study_hours) Dropped ---"
> print(names(dropped_range))
[1] "student_id"      "sleep_hours"    "travel_time_minutes" "attendance"
[5] "absence_reason"
>
>
> |
```

Files Plots Packages Help Viewer Presentation

Import Dataset 132 MiB

Environment History Connections Tutorial

Global Environment

dropped\_one 20000 obs. of 14 variables

dropped\_range 20000 obs. of 5 variables

final\_data 5000 obs. of 6 variables

Food\_Delivery\_Route\_ 200 obs. of 10 variables

high\_cost 1101 obs. of 6 variables

high\_cost\_low\_occ 118 obs. of 6 variables

high\_cost\_not\_se 495 obs. of 6 variables

high\_salary 1093 obs. of 12 variables

Name Size Modified

Practical\_No\_3\_R.R 1.3 KB Nov 24, 2025, 03:00 PM

Practical\_No\_4\_R.R 975 B Nov 24, 2025, 8:42 PM

Practical\_No\_5\_R.R 728 B Nov 24, 2025, 7:53 PM

Practical\_No\_6\_R.R 672 B Nov 24, 2025, 8:53 PM

Processed\_Student\_Mental\_Health.csv 6.1 KB Nov 18, 2025, 10:58 AM

S093 CHETAN MANDAVKAR FEATURE ENGINEERING SUBMISSION - Colab 2.3 MB Jul 27, 2025, 4:18 PM

S093\_Chetan\_Mandavkar\_FP\_Soft\_Copy\_Documentation\_[1].docx 45.1 KB Oct 15, 2025, 8:30 PM

SHRUTI MANDAVKAR EVS REPORT.pdf 357.3 KB Nov 21, 2025, 7:34 PM

Structure and functions of pancreas Shruti Mandavkar.pptx 639.7 KB Aug 24, 2025, 11:35 AM

Virtual Machines

WhatsApp Image 2025-11-25 at 19.51.57\_2b9447da.jpg 17.9 KB Nov 25, 2025, 7:52 PM

Attendance\_Prediction.csv 1.6 MB Dec 1, 2025, 10:48 AM

product\_sales\_dataset\_final.csv 25.3 MB Dec 1, 2025, 10:52 AM

Practical\_No\_7\_R.R 696 B Dec 1, 2025, 11:07 AM

synthetic\_fraud\_dataset.csv 847.7 KB Dec 1, 2025, 11:09 AM

Practical\_No\_8\_R.R 1.3 KB Dec 1, 2025, 11:26 AM

ENG IN 01-12-2025 11:36

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