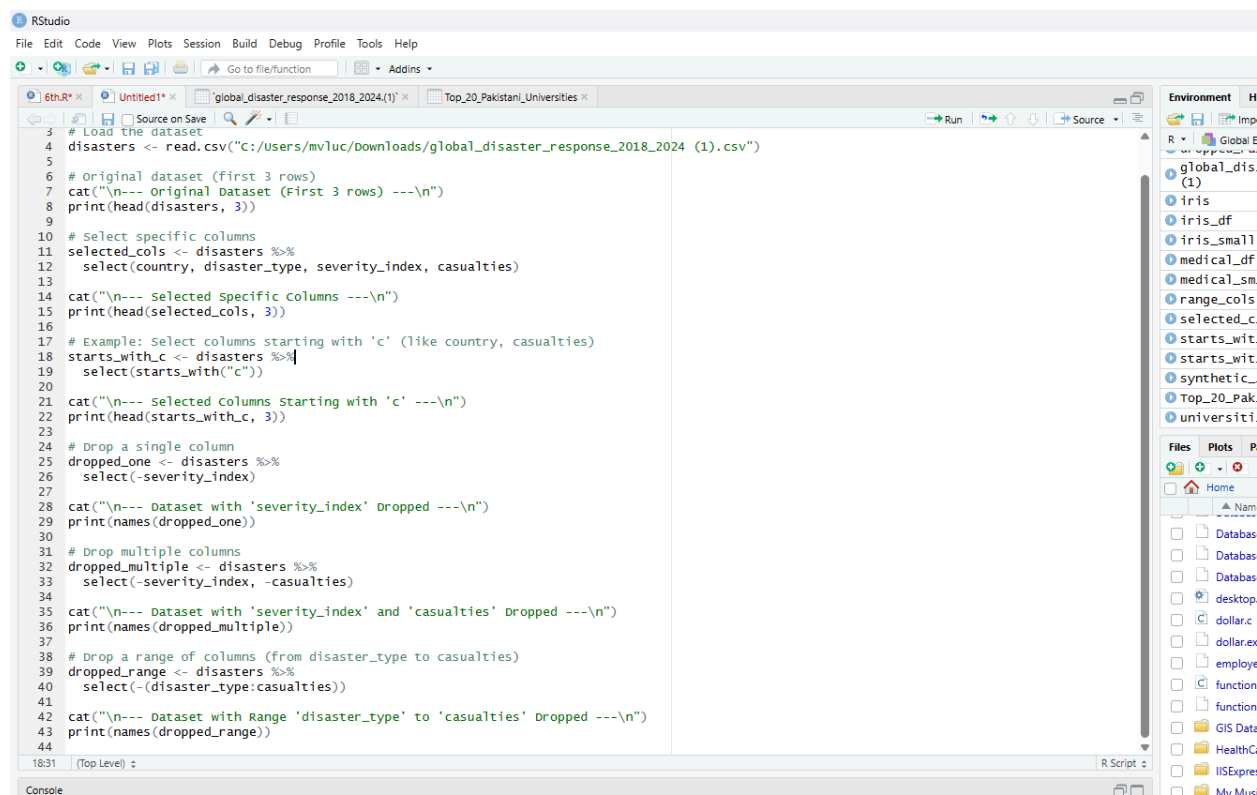


# Sheth I.u.j. And sir m.v. college of arts science and commerce

## Practical 7 R

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



```
3 # Load the dataset
4 disasters <- read.csv("c:/users/mv\luc/downloads/global_disaster_response_2018_2024 (1).csv")
5
6 # Original dataset (First 3 rows)
7 cat("\n--- Original Dataset (First 3 rows) ---\n")
8 print(head(disasters, 3))
9
10 # Select specific columns
11 selected_cols <- disasters %>%
12   select(country, disaster_type, severity_index, casualties)
13
14 cat("\n--- Selected Specific Columns ---\n")
15 print(head(selected_cols, 3))
16
17 # Example: Select columns starting with 'c' (like country, casualties)
18 starts_with_c <- disasters %>%
19   select(starts_with("c"))
20
21 cat("\n--- Selected Columns Starting with 'c' ---\n")
22 print(head(starts_with_c, 3))
23
24 # Drop a single column
25 dropped_one <- disasters %>%
26   select(-severity_index)
27
28 cat("\n--- Dataset with 'severity_index' Dropped ---\n")
29 print(names(dropped_one))
30
31 # Drop multiple columns
32 dropped_multiple <- disasters %>%
33   select(-severity_index, -casualties)
34
35 cat("\n--- Dataset with 'severity_index' and 'casualties' Dropped ---\n")
36 print(names(dropped_multiple))
37
38 # Drop a range of columns (from disaster_type to casualties)
39 dropped_range <- disasters %>%
40   select(-(disaster_type:casualties))
41
42 cat("\n--- Dataset with Range 'disaster_type' to 'casualties' Dropped ---\n")
43 print(names(dropped_range))
44
```

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```
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R 4.5.2 ~ /
> library(dplyr)
>
> # Load the dataset
> disasters <- read.csv("c:/Users/mvluc/downloads/global_disaster_response_2018-2024 (1).csv")
>
> # Original dataset (first 3 rows)
> cat("\n--- Original Dataset (First 3 rows) ---\n")
--- Original Dataset (First 3 rows) ---
> print(head(disasters, 3))
  date      country disaster_type severity_index casualties economic_loss_usd response_time_hours aid_amount_usd response_efficiency_score
1 2021-01-31 Brazil    Earthquake          5.99         111         7934366             15.62         271603.79              83.21
2 2018-12-23 Brazil    Extreme Heat          6.53         100         8307649             5.03         265873.81              96.18
3 2020-08-10 India     Hurricane          1.55          22         765137              32.54         49356.49              60.40
  recovery_days latitude longitude
1             67   -30.613   -122.557
2             55   10.859   -159.194
3             22    0.643   -160.978
>
> # Select specific columns
> selected_cols <- disasters %>%
+   select(country, disaster_type, severity_index, casualties)
>
> cat("\n--- Selected Specific columns ---\n")
--- Selected Specific columns ---
> print(head(selected_cols, 3))
  country disaster_type severity_index casualties
1  Brazil    Earthquake          5.99         111
2  Brazil    Extreme Heat          6.53         100
3   India     Hurricane          1.55          22
>
> # Example: Select columns starting with 'c' (like country, casualties)
> starts_with_c <- disasters %>%
+   select(starts_with("c"))
>
> cat("\n--- Selected columns starting with 'c' ---\n")
--- Selected Columns Starting with 'c' ---
> print(head(starts_with_c, 3))
  country casualties
1  Brazil         111
2  Brazil         100
3   India          22
```

```
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R 4.5.2 ~ /
--- Selected Columns Starting with 'c' ---
> print(head(starts_with_c, 3))
  country casualties
1  Brazil         111
2  Brazil         100
3   India          22
>
> # Drop a single column
> dropped_one <- disasters %>%
+   select(-severity_index)
>
> cat("\n--- Dataset with 'severity_index' Dropped ---\n")
--- Dataset with 'severity_index' Dropped ---
> print(names(dropped_one))
[1] "date"          "country"        "disaster_type"  "casualties"
[5] "economic_loss_usd" "response_time_hours" "aid_amount_usd" "response_efficiency_score"
[9] "recovery_days" "latitude"        "longitude"
>
> # Drop multiple columns
> dropped_multiple <- disasters %>%
+   select(-severity_index, -casualties)
>
> cat("\n--- Dataset with 'severity_index' and 'casualties' Dropped ---\n")
--- Dataset with 'severity_index' and 'casualties' Dropped ---
> print(names(dropped_multiple))
[1] "date"          "country"        "disaster_type"  "economic_loss_usd"
[5] "response_time_hours" "aid_amount_usd" "response_efficiency_score" "recovery_days"
[9] "latitude"        "longitude"
>
> # Drop a range of columns (from disaster_type to casualties)
> dropped_range <- disasters %>%
+   select(-(disaster_type:casualties))
>
> cat("\n--- Dataset with Range 'disaster_type' to 'casualties' Dropped ---\n")
--- Dataset with Range 'disaster_type' to 'casualties' Dropped ---
> print(names(dropped_range))
[1] "date"          "country"        "economic_loss_usd" "response_time_hours" "aid_amount_usd"
[6] "response_efficiency_score" "recovery_days" "latitude"        "longitude"
```

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