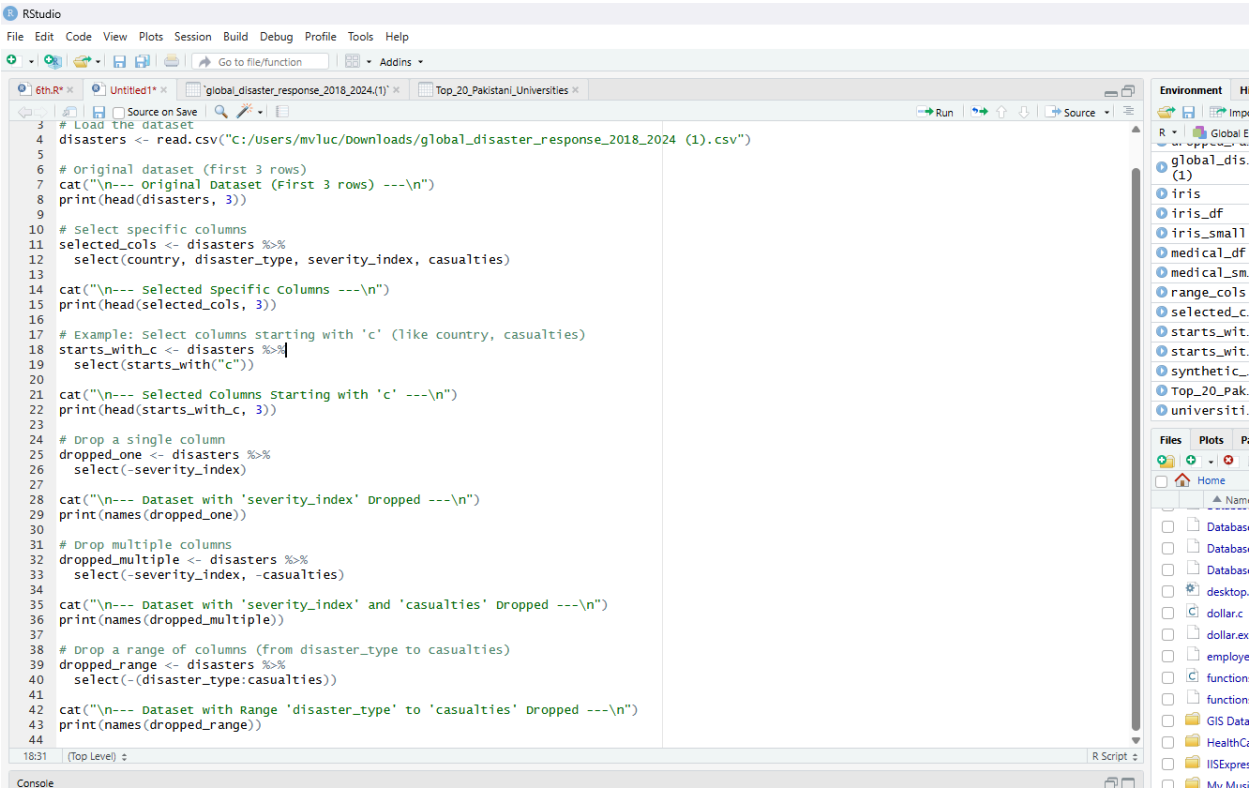
Sheth l.u.j. And sir m.v. college of arts science and commerce

Practical 7 R

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



```
# 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")
print(head(disasters, 3))

# Select specific columns
selected_cols <- disasters %>%
  select(country, disaster_type, severity_index, casualties)

cat("\n--- Selected Specific Columns ---\n")
print(head(selected_cols, 3))

# 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")
print(head(starts_with_c, 3))

# Drop a single column
dropped_one <- disasters %>%
  select(-severity_index)

cat("\n--- Dataset with 'severity_index' Dropped ---\n")
print(names(dropped_one))

# Drop multiple columns
dropped_multiple <- disasters %>%
  select(-severity_index, -casualties)

cat("\n--- Dataset with 'severity_index' and 'casualties' Dropped ---\n")
print(names(dropped_multiple))

# 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")
print(names(dropped_range))
```

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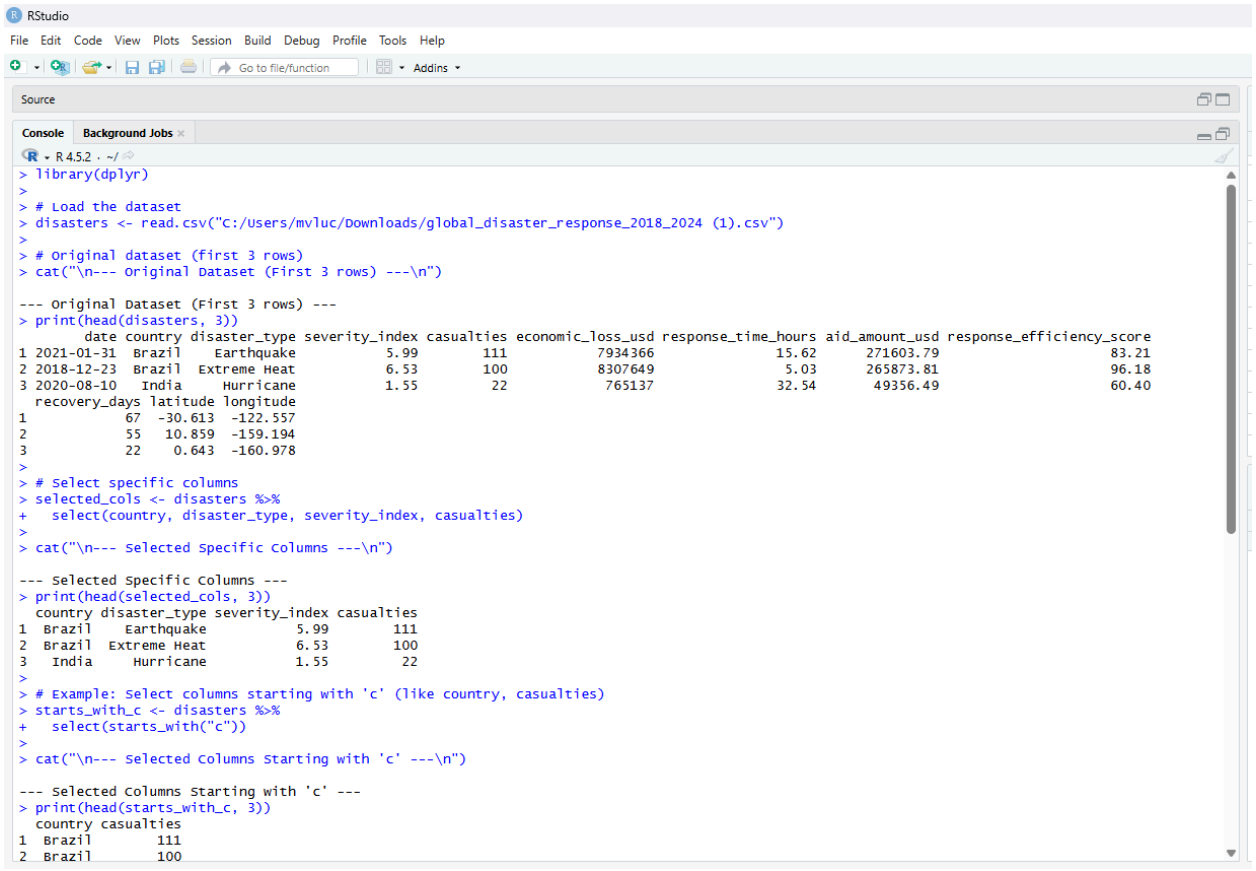
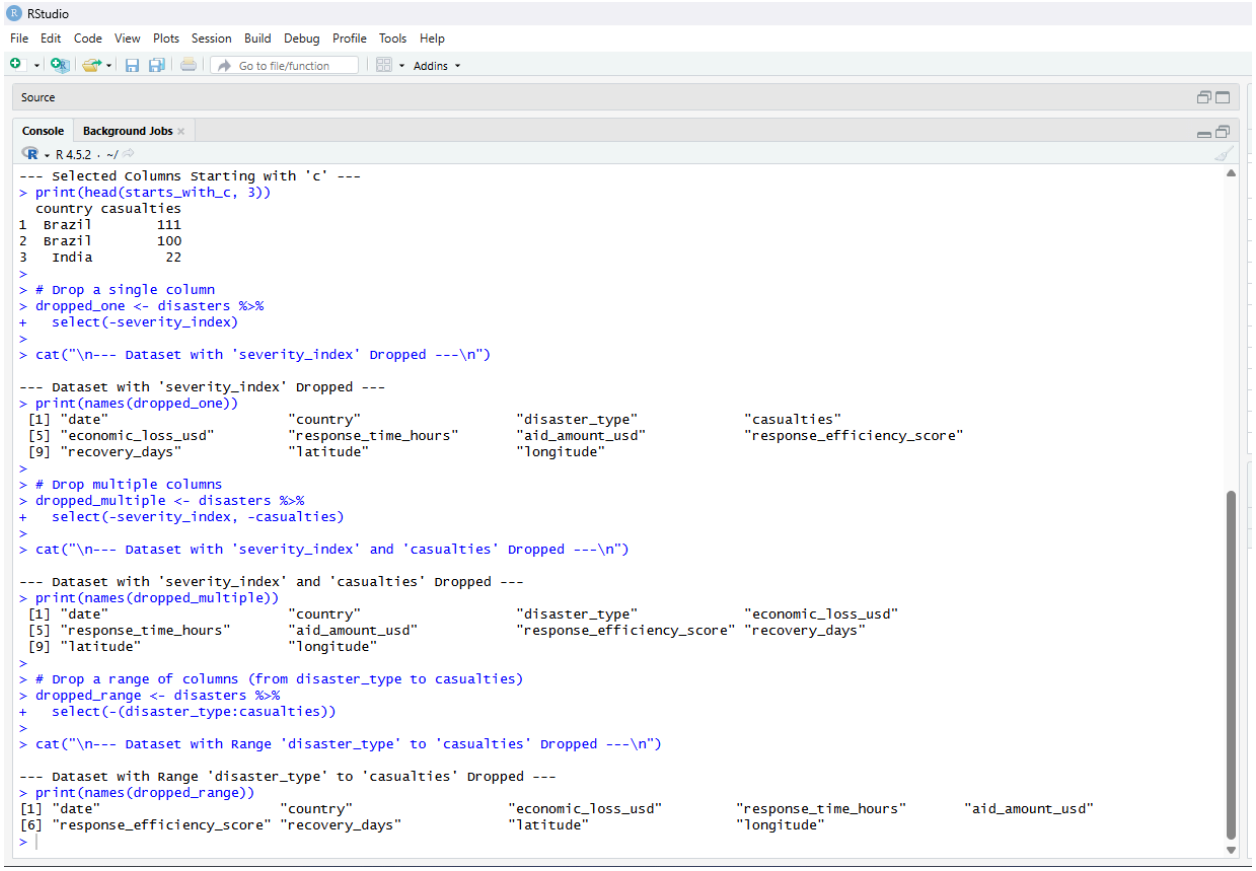


```
> library(dplyr)
>
> # Load the dataset
> disasters <- read.csv("C:/Users/mvluc/Downloads/global_disaster_response_2018_2024 (1).csv")
>
> # Original dataset (first 3 rows)
> cat("\n--- Original Dataset (First 3 rows) ---\n")

--- 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
```



```
--- 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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