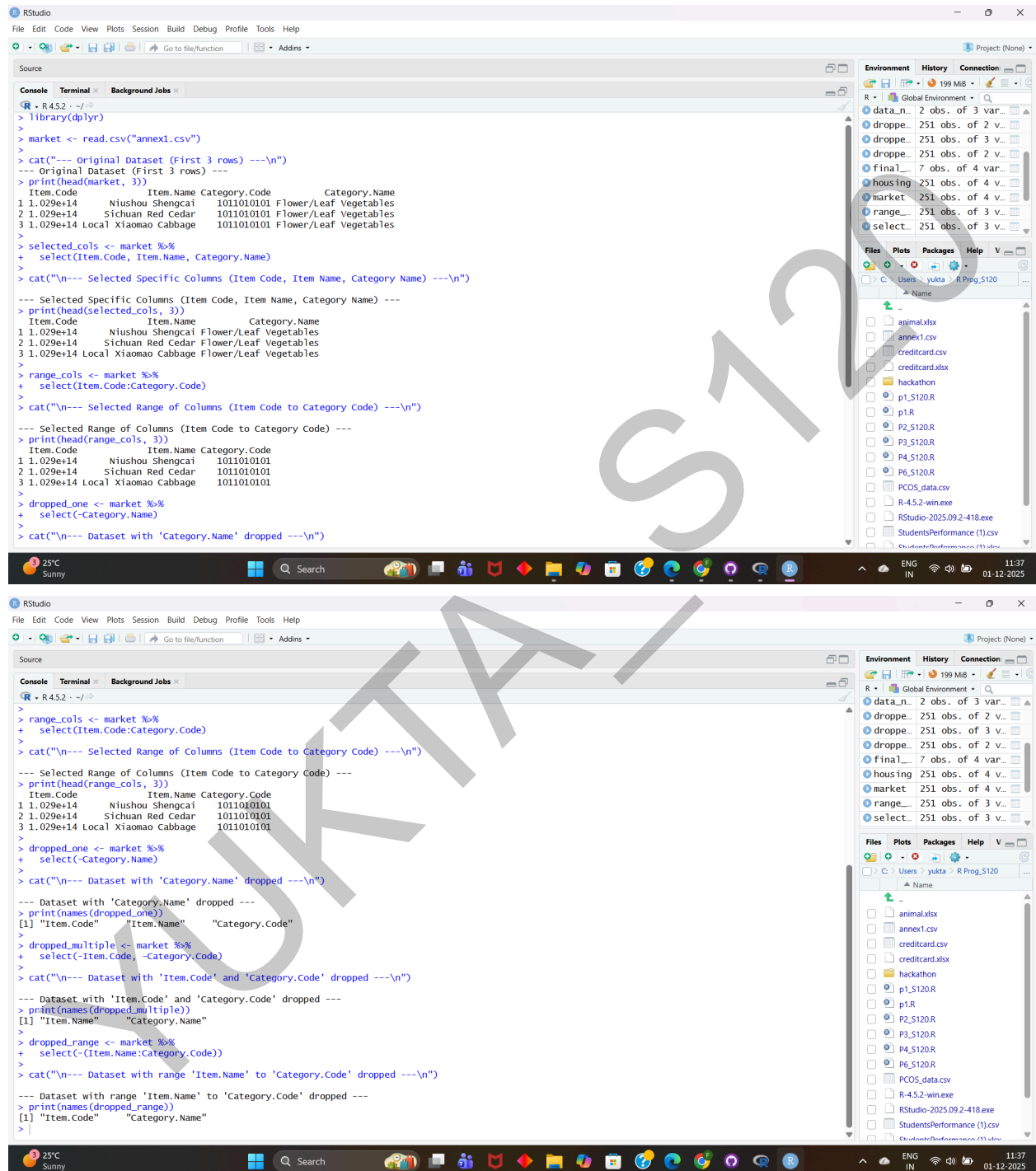


SHETH L.U.J AND SIR M.V COLLEGE

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



The image displays two screenshots of the RStudio interface, showing the process of selecting and dropping variables in a dataset using the `select()` function.

Top Screenshot: The console shows the following code and output:

```
R - R 4.5.2 - ~/r
> library(dplyr)
> market <- read.csv("annex1.csv")
> cat("--- Original Dataset (First 3 rows) ---\n")
--- Original Dataset (First 3 rows) ---
> print(head(market, 3))
  Item.Code Item.Name Category.Code Category.Name
1 1.029e+14 Niushou Shengcai 1011010101 Flower/Leaf Vegetables
2 1.029e+14 Sichuan Red Cedar 1011010101 Flower/Leaf Vegetables
3 1.029e+14 Local Xiaomao Cabbage 1011010101 Flower/Leaf Vegetables
> selected_cols <- market %>%
+   select(Item.Code, Item.Name, Category.Name)
> cat("\n--- Selected Specific Columns (Item Code, Item Name, Category Name) ---\n")
--- Selected Specific Columns (Item Code, Item Name, Category Name) ---
> print(head(selected_cols, 3))
  Item.Code Item.Name Category.Name
1 1.029e+14 Niushou Shengcai Flower/Leaf Vegetables
2 1.029e+14 Sichuan Red Cedar Flower/Leaf Vegetables
3 1.029e+14 Local Xiaomao Cabbage Flower/Leaf Vegetables
> range_cols <- market %>%
+   select(Item.Code:Category.Code)
> cat("\n--- Selected Range of Columns (Item Code to Category Code) ---\n")
--- Selected Range of Columns (Item Code to Category Code) ---
> print(head(range_cols, 3))
  Item.Code Item.Name Category.Code
1 1.029e+14 Niushou Shengcai 1011010101
2 1.029e+14 Sichuan Red Cedar 1011010101
3 1.029e+14 Local Xiaomao Cabbage 1011010101
> dropped_one <- market %>%
+   select(-Category.Name)
> cat("\n--- Dataset with 'Category.Name' dropped ---\n")
```

Bottom Screenshot: The console shows the following code and output:

```
R - R 4.5.2 - ~/r
> range_cols <- market %>%
+   select(Item.Code:Category.Code)
> cat("\n--- Selected Range of Columns (Item Code to Category Code) ---\n")
--- Selected Range of Columns (Item Code to Category Code) ---
> print(head(range_cols, 3))
  Item.Code Item.Name Category.Code
1 1.029e+14 Niushou Shengcai 1011010101
2 1.029e+14 Sichuan Red Cedar 1011010101
3 1.029e+14 Local Xiaomao Cabbage 1011010101
> dropped_one <- market %>%
+   select(-Category.Name)
> cat("\n--- Dataset with 'Category.Name' dropped ---\n")
--- Dataset with 'Category.Name' dropped ---
> print(names(dropped_one))
[1] "Item.Code" "Item.Name" "Category.Code"
> dropped_multiple <- market %>%
+   select(-Item.Code, -Category.Code)
> cat("\n--- Dataset with 'Item.Code' and 'Category.Code' dropped ---\n")
--- Dataset with 'Item.Code' and 'Category.Code' dropped ---
> print(names(dropped_multiple))
[1] "Item.Name" "Category.Name"
> dropped_range <- market %>%
+   select(-Item.Name:Category.Code)
> cat("\n--- Dataset with range 'Item.Name' to 'Category.Code' dropped ---\n")
--- Dataset with range 'Item.Name' to 'Category.Code' dropped ---
> print(names(dropped_range))
[1] "Item.Code" "Category.Name"
>
```

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PRACTICAL NO : 7