

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

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

The image displays two side-by-side screenshots of the RStudio IDE running on a Windows operating system. Both screenshots show the same R session code for manipulating a dataset named 'market'. The code uses the dplyr package to select specific columns, drop categories, and range columns. The top screenshot shows the initial steps of selecting columns and dropping categories. The bottom screenshot shows the continuation of the process, including dropping multiple columns and printing the names of the dropped columns. The RStudio interface includes a top menu bar, a source editor with a console tab, a file browser on the right, and a taskbar at the bottom showing various application icons.

```

RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Source Terminal Background Jobs
<R> R 4.5.2 -./>
> 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("---- 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("---- 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("---- 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("---- 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("---- 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"

```