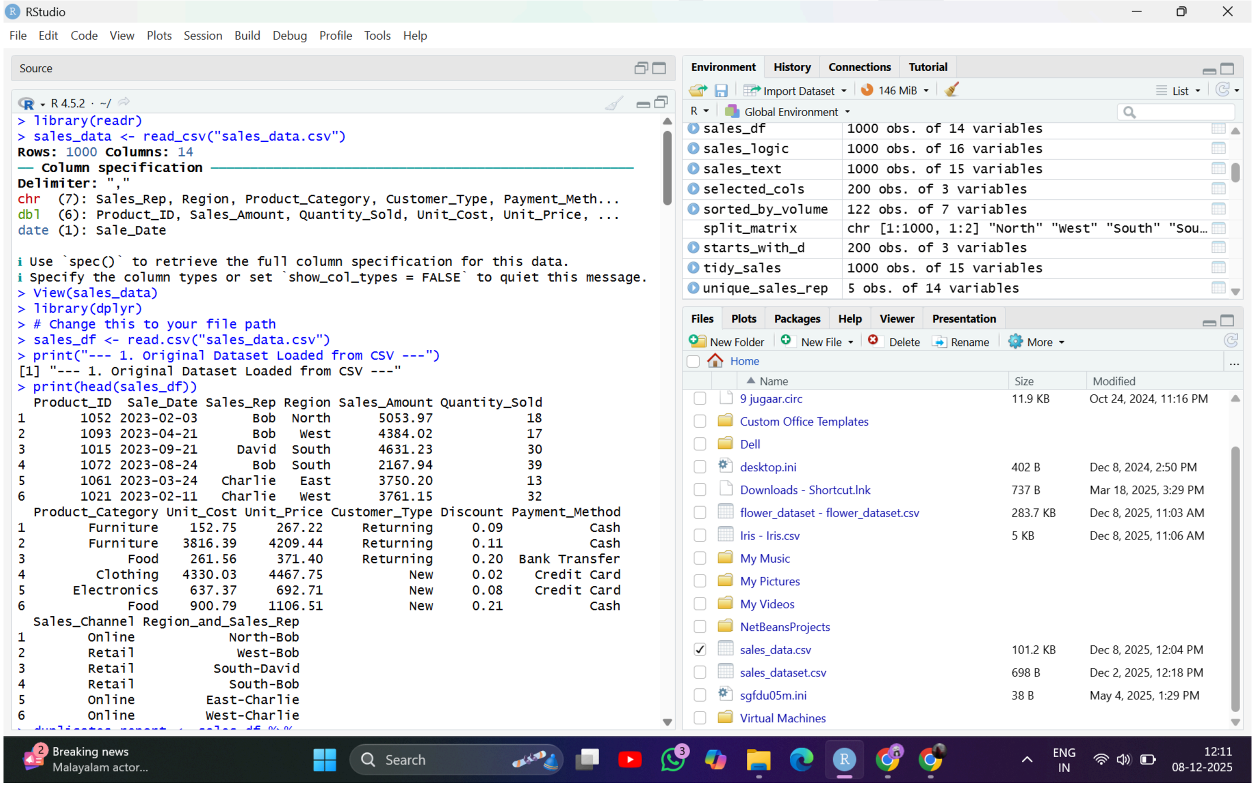
SHETH L.U.J AND SIR M.V COLLEGE

Subject: Data Analysis with SAS / SPSS /R

Practical no. 13

Aim:Identifying and handling duplicates using distinct() (R).

Outputs→

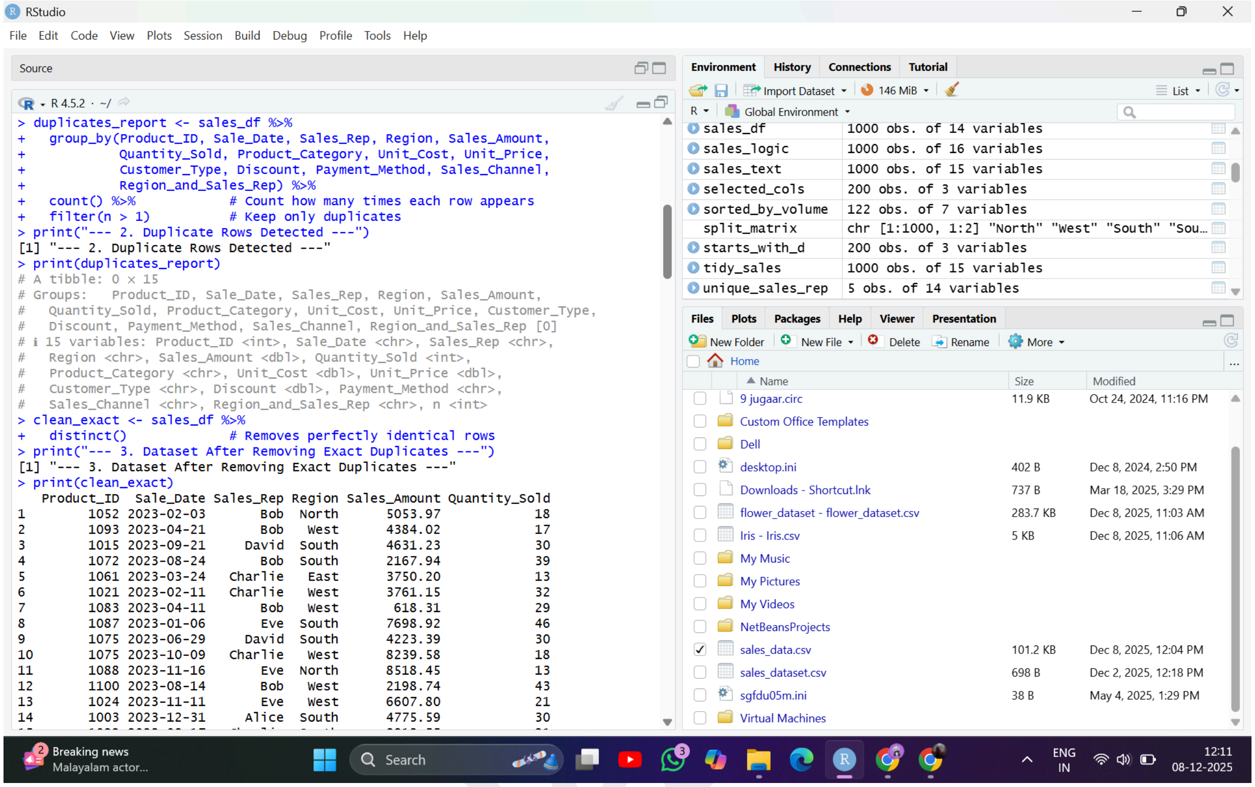


```
> library(readr)
> sales_data <- read_csv("sales_data.csv")
Rows: 1000 Columns: 14
── Column specification ────────────────────────────────────────────────
Delimiter: ","
chr  (7): Sales_Rep, Region, Product_Category, Customer_Type, Payment_Meth...
dbl  (6): Product_ID, Sales_Amount, Quantity_Sold, Unit_Cost, Unit_Price, ...
date (1): Sale_Date

i Use `spec()` to retrieve the full column specification for this data.
i Specify the column types or set `show_col_types = FALSE` to quiet this message.
> View(sales_data)
> library(dplyr)
> # Change this to your file path
> sales_df <- read.csv("sales_data.csv")
> print("--- 1. Original Dataset Loaded from CSV ---")
[1] "--- 1. Original Dataset Loaded from CSV ---"
> print(head(sales_df))
  Product_ID  Sale_Date Sales_Rep Region Sales_Amount Quantity_Sold
1       1052 2023-02-03       Bob  North      5053.97            18
2       1093 2023-04-21       Bob   West      4384.02            17
3       1015 2023-09-21     David  South      4631.23            30
4       1072 2023-08-24       Bob  South      2167.94            39
5       1061 2023-03-24   Charlie   East      3750.20            13
6       1021 2023-02-11   Charlie   West      3761.15            32
  Product_Category Unit_Cost Unit_Price Customer_Type Discount Payment_Method
1        Furniture    152.75     267.22     Returning     0.09           Cash
2        Furniture   3816.39    4209.44     Returning     0.11           Cash
3             Food    261.56     371.40     Returning     0.20  Bank Transfer
4         Clothing   4330.03    4467.75           New     0.02    Credit Card
5      Electronics    637.37     692.71           New     0.08    Credit Card
6             Food    900.79    1106.51           New     0.21           Cash
  Sales_Channel Region_and_Sales_Rep
1        Online            North-Bob
2        Retail             West-Bob
3        Retail          South-David
4        Retail            South-Bob
5        Online         East-Charlie
6        Online         West-Charlie
```

sales_df	1000 obs. of 14 variables
sales_logic	1000 obs. of 16 variables
sales_text	1000 obs. of 15 variables
selected_cols	200 obs. of 3 variables
sorted_by_volume	122 obs. of 7 variables
split_matrix	chr [1:1000, 1:2] "North" "West" "South" "Sou…
starts_with_d	200 obs. of 3 variables
tidy_sales	1000 obs. of 15 variables
unique_sales_rep	5 obs. of 14 variables

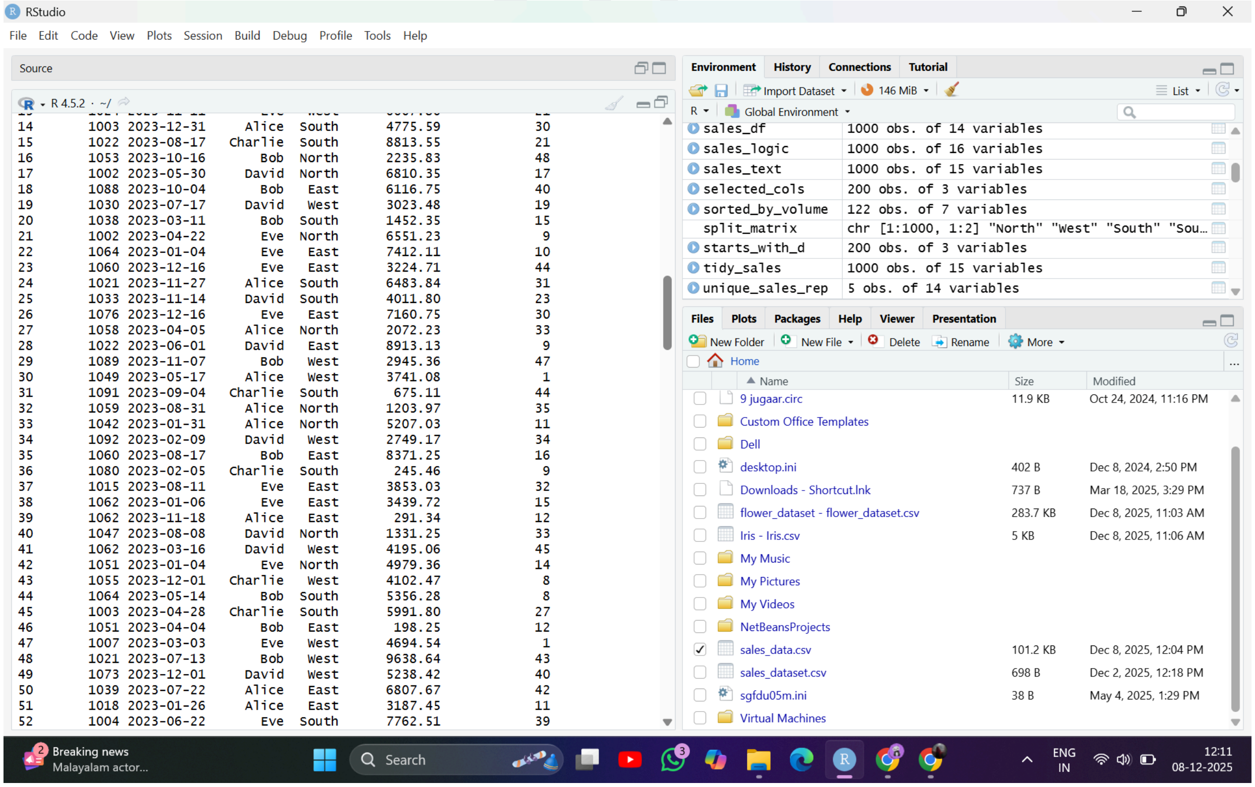
	Name	Size	Modified
□	9 jugaar.circ	11.9 KB	Oct 24, 2024, 11:16 PM
□	Custom Office Templates		
□	Dell		
□	desktop.ini	402 B	Dec 8, 2024, 2:50 PM
□	Downloads - Shortcut.lnk	737 B	Mar 18, 2025, 3:29 PM
□	flower_dataset - flower_dataset.csv	283.7 KB	Dec 8, 2025, 11:03 AM
□	Iris - Iris.csv	5 KB	Dec 8, 2025, 11:06 AM
□	My Music		
□	My Pictures		
□	My Videos		
□	NetBeansProjects		
☑	sales_data.csv	101.2 KB	Dec 8, 2025, 12:04 PM
□	sales_dataset.csv	698 B	Dec 2, 2025, 12:18 PM
□	sgfdu05m.ini	38 B	May 4, 2025, 1:29 PM
□	Virtual Machines		



```
> duplicates_report <- sales_df %>%
+   group_by(Product_ID, Sale_Date, Sales_Rep, Region, Sales_Amount,
+            Quantity_Sold, Product_Category, Unit_Cost, Unit_Price,
+            Customer_Type, Discount, Payment_Method, Sales_Channel,
+            Region_and_Sales_Rep) %>%
+   count() %>%             # Count how many times each row appears
+   filter(n > 1)           # Keep only duplicates
> print("--- 2. Duplicate Rows Detected ---")
[1] "--- 2. Duplicate Rows Detected ---"
> print(duplicates_report)
# A tibble: 0 × 15
# Groups:   Product_ID, Sale_Date, Sales_Rep, Region, Sales_Amount,
#   Quantity_Sold, Product_Category, Unit_Cost, Unit_Price, Customer_Type,
#   Discount, Payment_Method, Sales_Channel, Region_and_Sales_Rep [0]
# ℹ 15 variables: Product_ID <int>, Sale_Date <chr>, Sales_Rep <chr>,
#   Region <chr>, Sales_Amount <dbl>, Quantity_Sold <int>,
#   Product_Category <chr>, Unit_Cost <dbl>, Unit_Price <dbl>,
#   Customer_Type <chr>, Discount <dbl>, Payment_Method <chr>,
#   Sales_Channel <chr>, Region_and_Sales_Rep <chr>, n <int>
> clean_exact <- sales_df %>%
+   distinct()              # Removes perfectly identical rows
> print("--- 3. Dataset After Removing Exact Duplicates ---")
[1] "--- 3. Dataset After Removing Exact Duplicates ---"
> print(clean_exact)
   Product_ID  Sale_Date Sales_Rep Region Sales_Amount Quantity_Sold
1        1052 2023-02-03       Bob  North      5053.97            18
2        1093 2023-04-21       Bob   West      4384.02            17
3        1015 2023-09-21     David  South      4631.23            30
4        1072 2023-08-24       Bob  South      2167.94            39
5        1061 2023-03-24   Charlie   East      3750.20            13
6        1021 2023-02-11   Charlie   West      3761.15            32
7        1083 2023-04-11       Bob   West       618.31            29
8        1087 2023-01-06       Eve  South      7698.92            46
9        1075 2023-06-29     David  South      4223.39            30
10       1075 2023-10-09   Charlie   West      8239.58            18
11       1088 2023-11-16       Eve  North      8518.45            13
12       1100 2023-08-14       Bob   West      2198.74            43
13       1024 2023-11-11       Eve   West      6607.80            21
14       1003 2023-12-31     Alice  South      4775.59            30
```

```
sales_df           1000 obs. of 14 variables
sales_logic        1000 obs. of 16 variables
sales_text         1000 obs. of 15 variables
selected_cols      200 obs. of 3 variables
sorted_by_volume   122 obs. of 7 variables
split_matrix       chr [1:1000, 1:2] "North" "West" "South" "Sou…
starts_with_d      200 obs. of 3 variables
tidy_sales         1000 obs. of 15 variables
unique_sales_rep   5 obs. of 14 variables
```

	▲ Name	Size	Modified
□	9 jugaar.circ	11.9 KB	Oct 24, 2024, 11:16 PM
□	Custom Office Templates		
□	Dell		
□	desktop.ini	402 B	Dec 8, 2024, 2:50 PM
□	Downloads - Shortcut.lnk	737 B	Mar 18, 2025, 3:29 PM
□	flower_dataset - flower_dataset.csv	283.7 KB	Dec 8, 2025, 11:03 AM
□	Iris - Iris.csv	5 KB	Dec 8, 2025, 11:06 AM
□	My Music		
□	My Pictures		
□	My Videos		
□	NetBeansProjects		
☑	sales_data.csv	101.2 KB	Dec 8, 2025, 12:04 PM
□	sales_dataset.csv	698 B	Dec 2, 2025, 12:18 PM
□	sgfdu05m.ini	38 B	May 4, 2025, 1:29 PM
□	Virtual Machines		



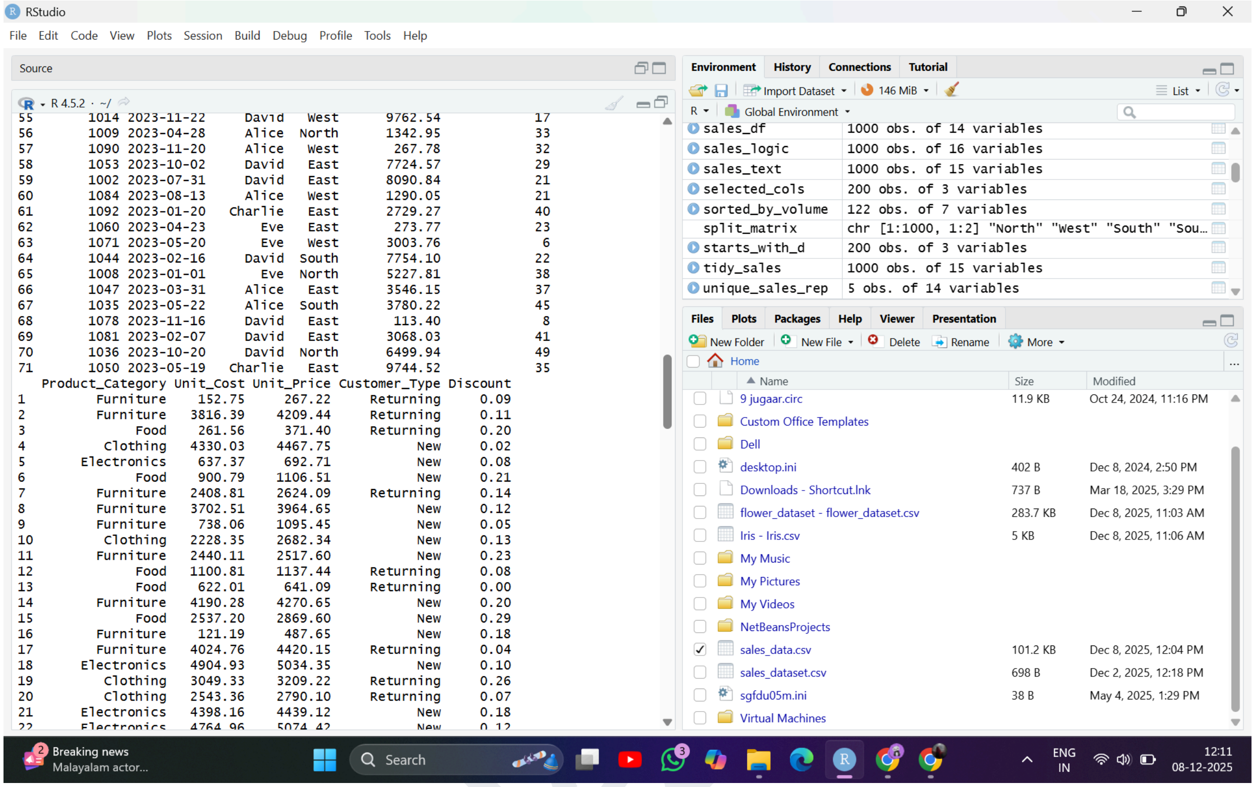
```
14       1003 2023-12-31     Alice  South      4775.59            30
15       1022 2023-08-17   Charlie  South      8813.55            21
16       1053 2023-10-16       Bob  North      2235.83            48
17       1002 2023-05-30     David  North      6810.35            17
18       1088 2023-10-04       Bob   East      6116.75            40
19       1030 2023-07-17     David   West      3023.48            19
20       1038 2023-03-11       Bob  South      1452.35            15
21       1002 2023-04-22       Eve  North      6551.23             9
22       1064 2023-01-04       Eve   East      7412.11            10
23       1060 2023-12-16       Eve   East      3224.71            44
24       1021 2023-11-27     Alice  South      6483.84            31
25       1033 2023-11-14     David  South      4011.80            23
26       1076 2023-12-16       Eve   East      7160.75            30
27       1058 2023-04-05     Alice  North      2072.23            33
28       1022 2023-06-01     David   East      8913.13             9
29       1089 2023-11-07       Bob   West      2945.36            47
30       1049 2023-05-17     Alice   West      3741.08             1
31       1091 2023-09-04   Charlie  South       675.11            44
32       1059 2023-08-31     Alice  North      1203.97            35
33       1042 2023-01-31     Alice  North      5207.03            11
34       1092 2023-02-09     David   West      2749.17            34
35       1060 2023-08-17       Bob   East      8371.25            16
36       1080 2023-02-05   Charlie  South       245.46             9
37       1015 2023-08-11       Eve   East      3853.03            32
38       1062 2023-01-06       Eve   East      3439.72            15
39       1062 2023-11-18     Alice   East       291.34            12
40       1047 2023-08-08     David  North      1331.25            33
41       1062 2023-03-16     David   West      4195.06            45
42       1051 2023-01-04       Eve  North      4979.36            14
43       1055 2023-12-01   Charlie   West      4102.47             8
44       1064 2023-05-14       Bob  South      5356.28             8
45       1003 2023-04-28   Charlie  South      5991.80            27
46       1051 2023-04-04       Bob   East       198.25            12
47       1007 2023-03-03       Eve   West      4694.54             1
48       1021 2023-07-13       Bob   West      9638.64            43
49       1073 2023-12-01     David   West      5238.42            40
50       1039 2023-07-22     Alice   East      6807.67            42
51       1018 2023-01-26     Alice   East      3187.45            11
52       1004 2023-06-22       Eve  South      7762.51            39
```

sales_df 1000 obs. of 14 variables
sales_logic 1000 obs. of 16 variables
sales_text 1000 obs. of 15 variables
selected_cols 200 obs. of 3 variables
sorted_by_volume 122 obs. of 7 variables
split_matrix chr [1:1000, 1:2] "North" "West" "South" "Sou…
starts_with_d 200 obs. of 3 variables
tidy_sales 1000 obs. of 15 variables
unique_sales_rep 5 obs. of 14 variables

9 jugaar.circ 11.9 KB Oct 24, 2024, 11:16 PM
Custom Office Templates
Dell
desktop.ini 402 B Dec 8, 2024, 2:50 PM
Downloads - Shortcut.lnk 737 B Mar 18, 2025, 3:29 PM
flower_dataset - flower_dataset.csv 283.7 KB Dec 8, 2025, 11:03 AM
Iris - Iris.csv 5 KB Dec 8, 2025, 11:06 AM
My Music
My Pictures
My Videos
NetBeansProjects
sales_data.csv 101.2 KB Dec 8, 2025, 12:04 PM
sales_dataset.csv 698 B Dec 2, 2025, 12:18 PM
sgfdu05m.ini 38 B May 4, 2025, 1:29 PM
Virtual Machines

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

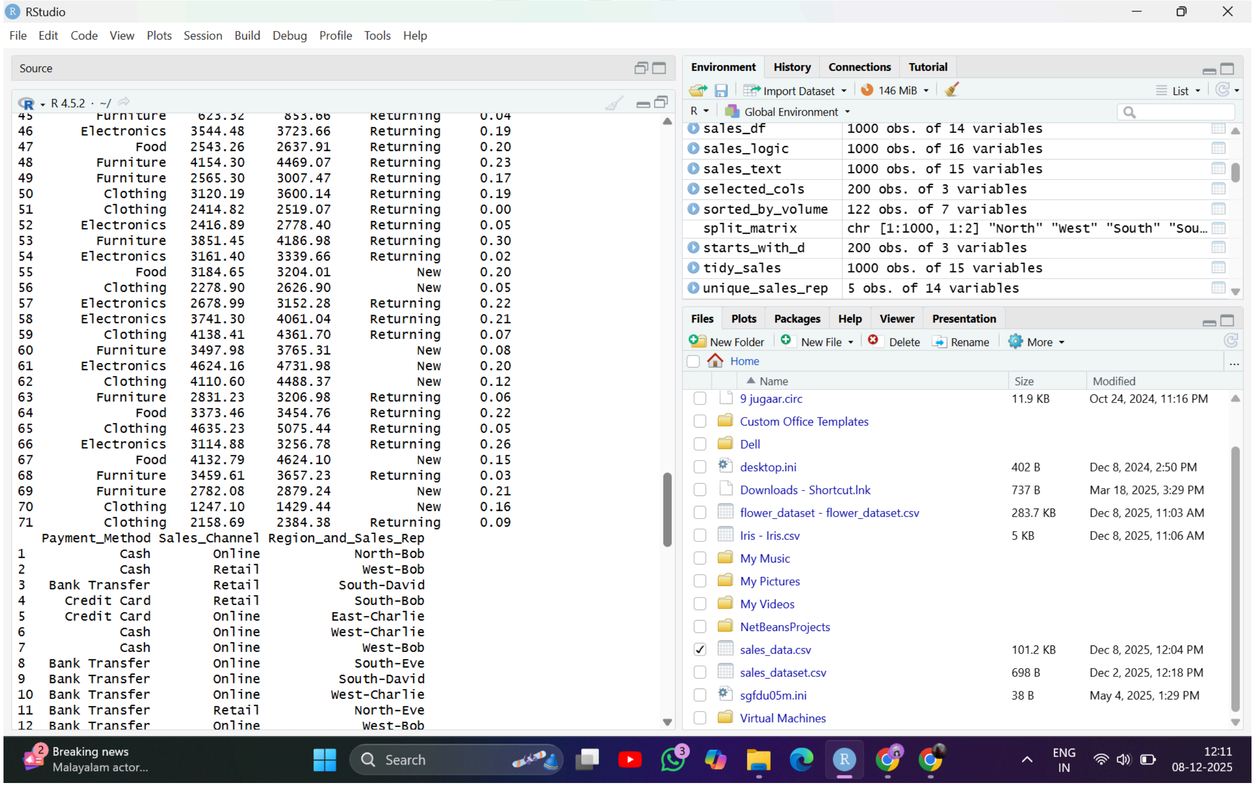
Subject: Data Analysis with SAS / SPSS /R


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Source
R 4.5.2 · ~/
Environment History Connections Tutorial
Import Dataset
146 MiB
List
R
Global Environment
Files Plots Packages Help Viewer Presentation
New Folder New File Delete Rename More
Home
Name Size Modified
Breaking news
Malayalam actor...
Search
ENG
IN
12:11
08-12-2025

```
55       1014 2023-11-22    David  West       9762.54             17
56       1009 2023-04-28    Alice North       1342.95             33
57       1090 2023-11-20    Alice  West        267.78             32
58       1053 2023-10-02    David  East       7724.57             29
59       1002 2023-07-31    David  East       8090.84             21
60       1084 2023-08-13    Alice  West       1290.05             21
61       1092 2023-01-20  Charlie  East       2729.27             40
62       1060 2023-04-23      Eve  East        273.77             23
63       1071 2023-05-20      Eve  West       3003.76              6
64       1044 2023-02-16    David South       7754.10             22
65       1008 2023-01-01      Eve North       5227.81             38
66       1047 2023-03-31    Alice  East       3546.15             37
67       1035 2023-05-22    Alice South       3780.22             45
68       1078 2023-11-16    David  East        113.40              8
69       1081 2023-02-07    David  East       3068.03             41
70       1036 2023-10-20    David North       6499.94             49
71       1050 2023-05-19  Charlie  East       9744.52             35
   Product_Category Unit_Cost Unit_Price Customer_Type Discount
1         Furniture    152.75     267.22     Returning     0.09
2         Furniture   3816.39    4209.44     Returning     0.11
3              Food    261.56     371.40     Returning     0.20
4          Clothing   4330.03    4467.75           New     0.02
5       Electronics    637.37     692.71           New     0.08
6              Food    900.79    1106.51           New     0.21
7         Furniture   2408.81    2624.09     Returning     0.14
8         Furniture   3702.51    3964.65           New     0.12
9         Furniture    738.06    1095.45           New     0.05
10         Clothing   2228.35    2682.34           New     0.13
11        Furniture   2440.11    2517.60           New     0.23
12             Food   1100.81    1137.44     Returning     0.08
13             Food    622.01     641.09     Returning     0.00
14        Furniture   4190.28    4270.65           New     0.20
15             Food   2537.20    2869.60           New     0.29
16        Furniture    121.19     487.65           New     0.18
17        Furniture   4024.76    4420.15     Returning     0.04
18      Electronics   4904.93    5034.35           New     0.10
19         Clothing   3049.33    3209.22     Returning     0.26
20         Clothing   2543.36    2790.10     Returning     0.07
21      Electronics   4398.16    4439.12           New     0.18
22      Electronics   4764.96    5074.42           New     0.12
```

```
sales_df           1000 obs. of 14 variables
sales_logic        1000 obs. of 16 variables
sales_text         1000 obs. of 15 variables
selected_cols      200 obs. of 3 variables
sorted_by_volume   122 obs. of 7 variables
split_matrix       chr [1:1000, 1:2] "North" "West" "South" "Sou…
starts_with_d      200 obs. of 3 variables
tidy_sales         1000 obs. of 15 variables
unique_sales_rep   5 obs. of 14 variables
```

	Name	Size	Modified
□	9 jugaar.circ	11.9 KB	Oct 24, 2024, 11:16 PM
□	Custom Office Templates		
□	Dell		
□	desktop.ini	402 B	Dec 8, 2024, 2:50 PM
□	Downloads - Shortcut.lnk	737 B	Mar 18, 2025, 3:29 PM
□	flower_dataset - flower_dataset.csv	283.7 KB	Dec 8, 2025, 11:03 AM
□	Iris - Iris.csv	5 KB	Dec 8, 2025, 11:06 AM
□	My Music		
□	My Pictures		
□	My Videos		
□	NetBeansProjects		
☑	sales_data.csv	101.2 KB	Dec 8, 2025, 12:04 PM
□	sales_dataset.csv	698 B	Dec 2, 2025, 12:18 PM
□	sgfdu05m.ini	38 B	May 4, 2025, 1:29 PM
□	Virtual Machines		


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Source
R 4.5.2 · ~/
Environment History Connections Tutorial
Import Dataset
146 MiB
List
R
Global Environment
Files Plots Packages Help Viewer Presentation
New Folder New File Delete Rename More
Home
Name Size Modified
Breaking news
Malayalam actor...
Search
ENG
IN
12:11
08-12-2025

```
45        Furniture    623.32     853.66     Returning     0.04
46      Electronics   3544.48    3723.66     Returning     0.19
47             Food   2543.26    2637.91     Returning     0.20
48        Furniture   4154.30    4469.07     Returning     0.23
49        Furniture   2565.30    3007.47     Returning     0.17
50         Clothing   3120.19    3600.14     Returning     0.19
51         Clothing   2414.82    2519.07     Returning     0.00
52      Electronics   2416.89    2778.40     Returning     0.05
53        Furniture   3851.45    4186.98     Returning     0.30
54      Electronics   3161.40    3339.66     Returning     0.02
55             Food   3184.65    3204.01           New     0.20
56         Clothing   2278.90    2626.90           New     0.05
57      Electronics   2678.99    3152.28     Returning     0.22
58      Electronics   3741.30    4061.04     Returning     0.21
59         Clothing   4138.41    4361.70     Returning     0.07
60        Furniture   3497.98    3765.31           New     0.08
61      Electronics   4624.16    4731.98           New     0.20
62         Clothing   4110.60    4488.37           New     0.12
63        Furniture   2831.23    3206.98     Returning     0.06
64             Food   3373.46    3454.76     Returning     0.22
65         Clothing   4635.23    5075.44     Returning     0.05
66      Electronics   3114.88    3256.78     Returning     0.26
67             Food   4132.79    4624.10           New     0.15
68        Furniture   3459.61    3657.23     Returning     0.03
69        Furniture   2782.08    2879.24           New     0.21
70         Clothing   1247.10    1429.44           New     0.16
71         Clothing   2158.69    2384.38     Returning     0.09
   Payment_Method Sales_Channel Region_and_Sales_Rep
1            Cash        Online            North-Bob
2            Cash        Retail             West-Bob
3   Bank Transfer        Retail          South-David
4     Credit Card        Retail            South-Bob
5     Credit Card        Online         East-Charlie
6            Cash        Online         West-Charlie
7            Cash        Online             West-Bob
8   Bank Transfer        Online            South-Eve
9   Bank Transfer        Online          South-David
10  Bank Transfer        Online         West-Charlie
11  Bank Transfer        Retail            North-Eve
12  Bank Transfer        Online             West-Bob
```

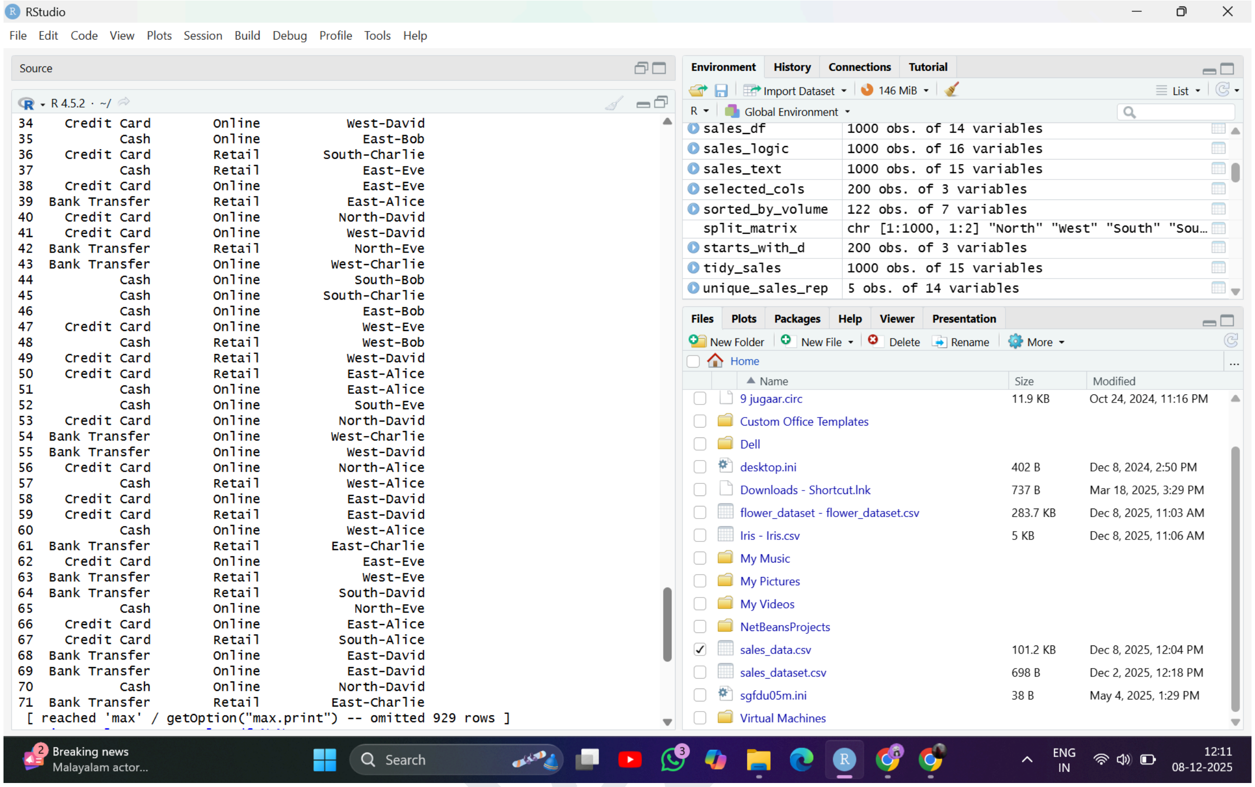
```
sales_df           1000 obs. of 14 variables
sales_logic        1000 obs. of 16 variables
sales_text         1000 obs. of 15 variables
selected_cols      200 obs. of 3 variables
sorted_by_volume   122 obs. of 7 variables
split_matrix       chr [1:1000, 1:2] "North" "West" "South" "Sou…
starts_with_d      200 obs. of 3 variables
tidy_sales         1000 obs. of 15 variables
unique_sales_rep   5 obs. of 14 variables
```

	Name	Size	Modified
□	9 jugaar.circ	11.9 KB	Oct 24, 2024, 11:16 PM
□	Custom Office Templates		
□	Dell		
□	desktop.ini	402 B	Dec 8, 2024, 2:50 PM
□	Downloads - Shortcut.lnk	737 B	Mar 18, 2025, 3:29 PM
□	flower_dataset - flower_dataset.csv	283.7 KB	Dec 8, 2025, 11:03 AM
□	Iris - Iris.csv	5 KB	Dec 8, 2025, 11:06 AM
□	My Music		
□	My Pictures		
□	My Videos		
□	NetBeansProjects		
☑	sales_data.csv	101.2 KB	Dec 8, 2025, 12:04 PM
□	sales_dataset.csv	698 B	Dec 2, 2025, 12:18 PM
□	sgfdu05m.ini	38 B	May 4, 2025, 1:29 PM
□	Virtual Machines		

Alam Gazala Parveen S071

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

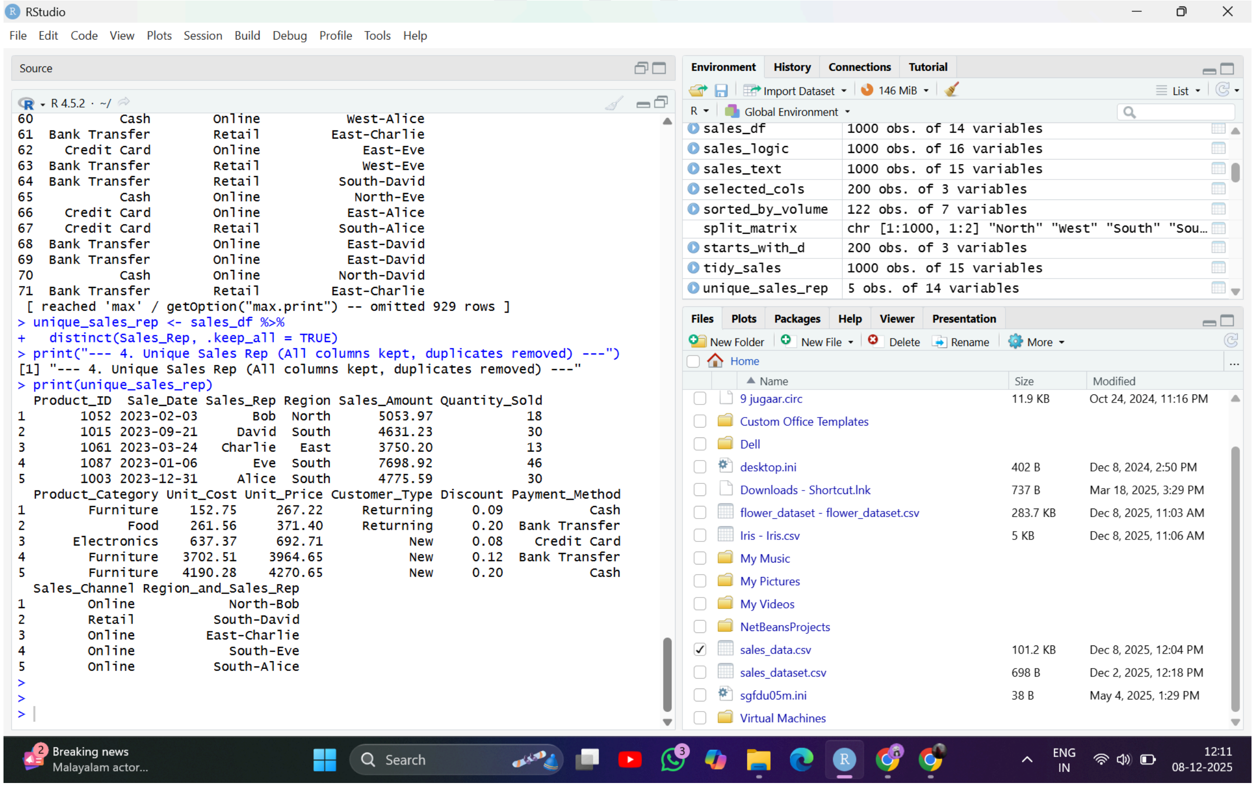
Subject: Data Analysis with SAS / SPSS /R



```
34    Credit Card        Online           West-David
35           Cash        Online             East-Bob
36    Credit Card        Retail        South-Charlie
37           Cash        Retail             East-Eve
38    Credit Card        Online             East-Eve
39  Bank Transfer        Retail           East-Alice
40    Credit Card        Online          North-David
41    Credit Card        Online           West-David
42  Bank Transfer        Retail            North-Eve
43  Bank Transfer        Online         West-Charlie
44           Cash        Online            South-Bob
45           Cash        Online        South-Charlie
46           Cash        Online             East-Bob
47    Credit Card        Online             West-Eve
48           Cash        Retail             West-Bob
49    Credit Card        Retail           West-David
50    Credit Card        Retail           East-Alice
51           Cash        Online           East-Alice
52           Cash        Online            South-Eve
53    Credit Card        Online          North-David
54  Bank Transfer        Online         West-Charlie
55  Bank Transfer        Online           West-David
56    Credit Card        Online          North-Alice
57           Cash        Retail           West-Alice
58    Credit Card        Online           East-David
59    Credit Card        Retail           East-David
60           Cash        Online           West-Alice
61  Bank Transfer        Retail         East-Charlie
62    Credit Card        Online             East-Eve
63  Bank Transfer        Retail             West-Eve
64  Bank Transfer        Retail          South-David
65           Cash        Online            North-Eve
66    Credit Card        Online           East-Alice
67    Credit Card        Retail          South-Alice
68  Bank Transfer        Online           East-David
69  Bank Transfer        Online           East-David
70           Cash        Online          North-David
71  Bank Transfer        Retail         East-Charlie
 [ reached 'max' / getOption("max.print") -- omitted 929 rows ]
```

sales_df	1000 obs. of 14 variables
sales_logic	1000 obs. of 16 variables
sales_text	1000 obs. of 15 variables
selected_cols	200 obs. of 3 variables
sorted_by_volume	122 obs. of 7 variables
split_matrix	chr [1:1000, 1:2] "North" "West" "South" "Sou…
starts_with_d	200 obs. of 3 variables
tidy_sales	1000 obs. of 15 variables
unique_sales_rep	5 obs. of 14 variables

Name	Size	Modified
□ 9 jugaar.circ	11.9 KB	Oct 24, 2024, 11:16 PM
□ Custom Office Templates		
□ Dell		
□ desktop.ini	402 B	Dec 8, 2024, 2:50 PM
□ Downloads - Shortcut.lnk	737 B	Mar 18, 2025, 3:29 PM
□ flower_dataset - flower_dataset.csv	283.7 KB	Dec 8, 2025, 11:03 AM
□ Iris - Iris.csv	5 KB	Dec 8, 2025, 11:06 AM
□ My Music		
□ My Pictures		
□ My Videos		
□ NetBeansProjects		
☑ sales_data.csv	101.2 KB	Dec 8, 2025, 12:04 PM
□ sales_dataset.csv	698 B	Dec 2, 2025, 12:18 PM
□ sgfdu05m.ini	38 B	May 4, 2025, 1:29 PM
□ Virtual Machines		



```
60           Cash        Online           West-Alice
61  Bank Transfer        Retail         East-Charlie
62    Credit Card        Online             East-Eve
63  Bank Transfer        Retail             West-Eve
64  Bank Transfer        Retail          South-David
65           Cash        Online            North-Eve
66    Credit Card        Online           East-Alice
67    Credit Card        Retail          South-Alice
68  Bank Transfer        Online           East-David
69  Bank Transfer        Online           East-David
70           Cash        Online          North-David
71  Bank Transfer        Retail         East-Charlie
 [ reached 'max' / getOption("max.print") -- omitted 929 rows ]
> unique_sales_rep <- sales_df %>%
+   distinct(Sales_Rep, .keep_all = TRUE)
> print("--- 4. Unique Sales Rep (All columns kept, duplicates removed) ---")
[1] "--- 4. Unique Sales Rep (All columns kept, duplicates removed) ---"
> print(unique_sales_rep)
  Product_ID  Sale_Date Sales_Rep Region Sales_Amount Quantity_Sold
1       1052 2023-02-03       Bob  North      5053.97            18
2       1015 2023-09-21     David  South      4631.23            30
3       1061 2023-03-24   Charlie   East      3750.20            13
4       1087 2023-01-06       Eve  South      7698.92            46
5       1003 2023-12-31     Alice  South      4775.59            30
  Product_Category Unit_Cost Unit_Price Customer_Type Discount Payment_Method
1        Furniture    152.75     267.22     Returning     0.09           Cash
2             Food    261.56     371.40     Returning     0.20  Bank Transfer
3      Electronics    637.37     692.71           New     0.08    Credit Card
4        Furniture   3702.51    3964.65           New     0.12  Bank Transfer
5        Furniture   4190.28    4270.65           New     0.20           Cash
  Sales_Channel Region_and_Sales_Rep
1        Online            North-Bob
2        Retail          South-David
3        Online         East-Charlie
4        Online            South-Eve
5        Online          South-Alice
>
>
> |
```

sales_df	1000 obs. of 14 variables
sales_logic	1000 obs. of 16 variables
sales_text	1000 obs. of 15 variables
selected_cols	200 obs. of 3 variables
sorted_by_volume	122 obs. of 7 variables
split_matrix	chr [1:1000, 1:2] "North" "West" "South" "Sou…
starts_with_d	200 obs. of 3 variables
tidy_sales	1000 obs. of 15 variables
unique_sales_rep	5 obs. of 14 variables

Name	Size	Modified
□ 9 jugaar.circ	11.9 KB	Oct 24, 2024, 11:16 PM
□ Custom Office Templates		
□ Dell		
□ desktop.ini	402 B	Dec 8, 2024, 2:50 PM
□ Downloads - Shortcut.lnk	737 B	Mar 18, 2025, 3:29 PM
□ flower_dataset - flower_dataset.csv	283.7 KB	Dec 8, 2025, 11:03 AM
□ Iris - Iris.csv	5 KB	Dec 8, 2025, 11:06 AM
□ My Music		
□ My Pictures		
□ My Videos		
□ NetBeansProjects		
☑ sales_data.csv	101.2 KB	Dec 8, 2025, 12:04 PM
□ sales_dataset.csv	698 B	Dec 2, 2025, 12:18 PM
□ sgfdu05m.ini	38 B	May 4, 2025, 1:29 PM
□ Virtual Machines		

Alam Gazala Parveen S071