

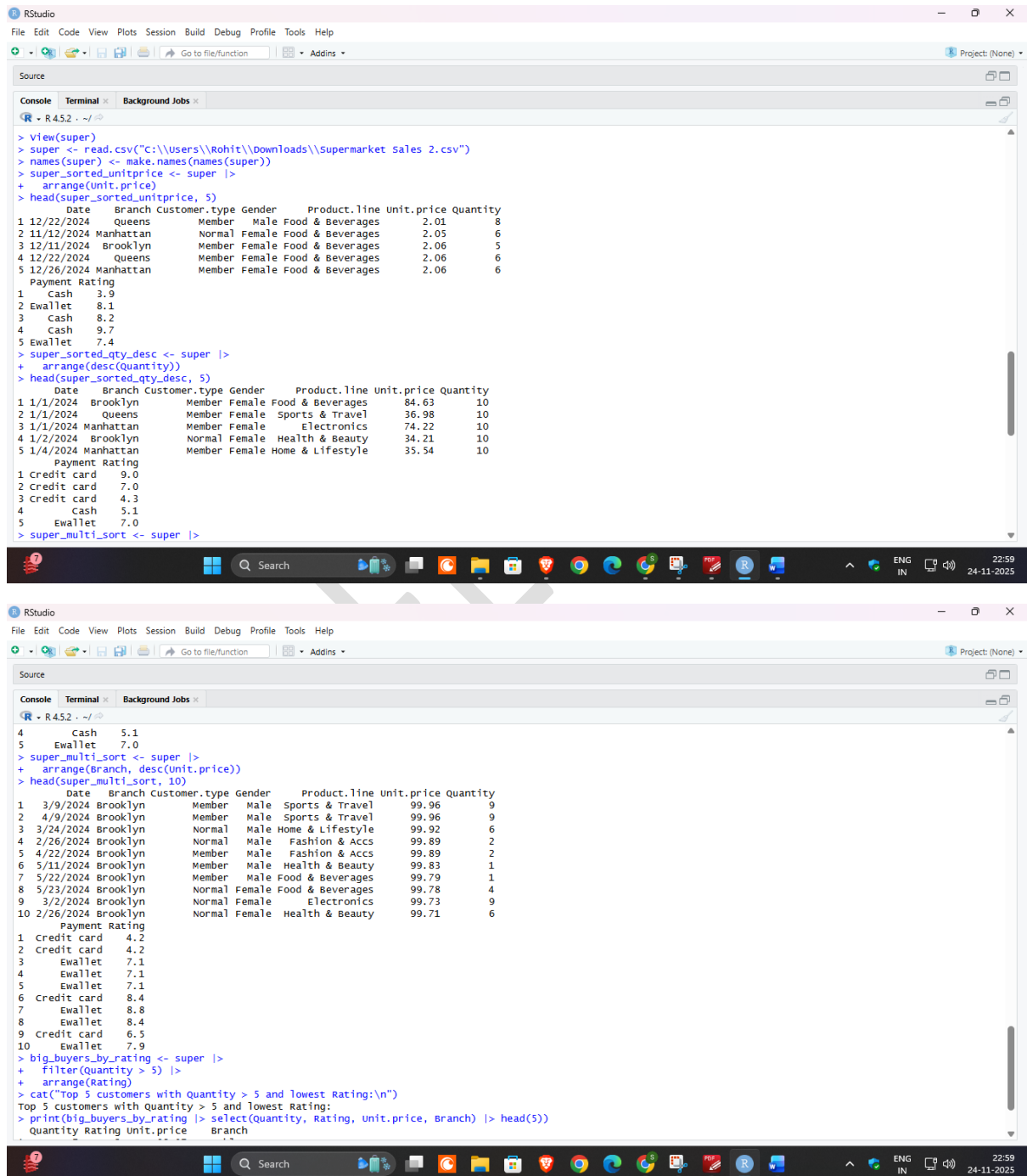
SHETH L.U.J AND SIR M.V. COLLEGE

SUBJECT :- DATA ANALYSIS WITH SAS / SPSS / R

PRACTICAL – 5

AIM:- Sorting data using arrange() in R.

OUTPUT:



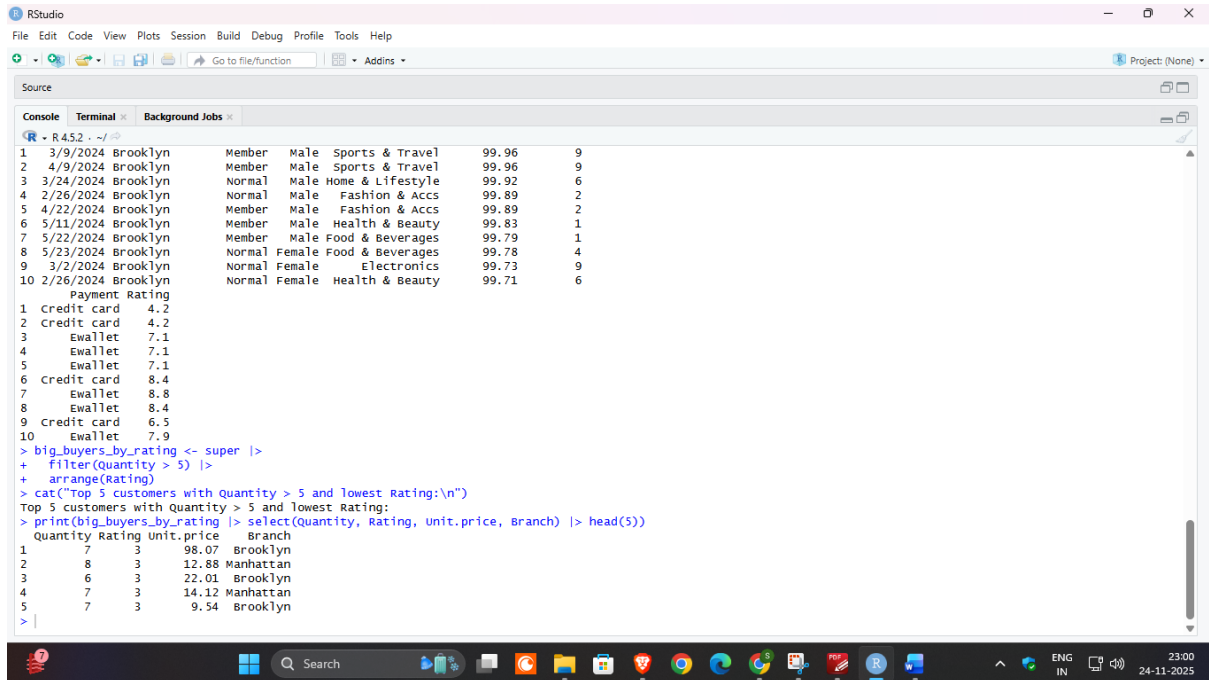
```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Source
Console Terminal Background Jobs
R - R 4.52 . - ~/
> View(super)
> super <- read.csv("C:\\Users\\Rohit\\Downloads\\Supermarket Sales 2.csv")
> names(super) <- make.names(names(super))
> super_sorted_unitprice <- super |>
+ arrange(unit.price)
> head(super_sorted_unitprice, 5)
  Date      Branch Customer.type Gender Product.line Unit.price Quantity
1 12/22/2024 Queens      Member    Male Food & Beverages      2.01         8
2 11/12/2024 Manhattan   Normal   Female Food & Beverages      2.05         6
3 12/11/2024 Brooklyn    Member   Female Food & Beverages      2.06         5
4 12/22/2024 Queens      Member   Female Food & Beverages      2.06         6
5 12/26/2024 Manhattan   Member   Female Food & Beverages      2.06         6
Payment Rating
1 Cash      3.9
2 Ewallet   8.1
3 Cash      8.2
4 Cash      9.7
5 Ewallet   7.4
> super_sorted_qty_desc <- super |>
+ arrange(desc(Quantity))
> head(super_sorted_qty_desc, 5)
  Date      Branch Customer.type Gender Product.line Unit.price Quantity
1 1/1/2024 Brooklyn    Member   Female Food & Beverages      84.63        10
2 1/1/2024 Queens      Member   Female Sports & Travel      36.98        10
3 1/1/2024 Manhattan   Member   Female Electronics       74.22        10
4 1/2/2024 Brooklyn    Normal   Female Health & Beauty     34.21        10
5 1/4/2024 Manhattan   Member   Female Home & Lifestyle    35.54        10
Payment Rating
1 Credit card 9.0
2 Credit card 7.0
3 Credit card 4.3
4 Cash        5.1
5 Ewallet     7.0
> super_multi_sort <- super |>
4 Cash      5.1
5 Ewallet    7.0
> super_multi_sort <- super |>
+ arrange(branch, desc(unit.price))
> head(super_multi_sort, 10)
  Date      Branch Customer.type Gender Product.line Unit.price Quantity
1 3/9/2024 Brooklyn    Member    Male Sports & Travel      99.96         9
2 4/9/2024 Brooklyn    Member    Male Sports & Travel      99.96         9
3 3/24/2024 Brooklyn   Normal    Male Home & Lifestyle     99.92         6
4 2/26/2024 Brooklyn   Normal    Male Fashion & Accs       99.89         2
5 4/22/2024 Brooklyn   Member    Male Fashion & Accs       99.89         2
6 5/11/2024 Brooklyn   Member    Male Health & Beauty      99.83         1
7 5/22/2024 Brooklyn   Member    Male Food & Beverages     99.79         1
8 5/23/2024 Brooklyn   Normal   Female Food & Beverages     99.78         4
9 3/2/2024 Brooklyn   Normal   Female Electronics        99.73         9
10 2/26/2024 Brooklyn   Normal   Female Health & Beauty     99.71         6
Payment Rating
1 Credit card 4.2
2 Credit card 4.2
3 Ewallet     7.1
4 Ewallet     7.1
5 Ewallet     7.1
6 Credit card 8.4
7 Ewallet     8.8
8 Ewallet     8.4
9 Credit card 6.5
10 Ewallet    7.9
> big_buyers_by_rating <- super |>
+ filter(Quantity > 5) |>
+ arrange(Rating)
> cat("Top 5 customers with Quantity > 5 and lowest Rating:\n")
Top 5 customers with Quantity > 5 and lowest Rating:
> print(big_buyers_by_rating |> select(Quantity, Rating, Unit.price, Branch) |> head(5))
  Quantity Rating Unit.price Branch
1         5      4.2      5.1    Cash
2         5      4.2      7.0  Ewallet
3         6      7.1      7.1  Ewallet
4         6      7.1      7.1  Ewallet
5         9      8.4      8.4  Credit card
```

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SUBJECT :- DATA ANALYSIS WITH SAS / SPSS / R



The screenshot shows the RStudio interface with the console window active. The console displays the following R code and its output:

```
R 4.5.2 ~\>  
1 3/9/2024 Brooklyn Member Male Sports & Travel 99.96 9  
2 4/9/2024 Brooklyn Member Male Sports & Travel 99.96 9  
3 3/24/2024 Brooklyn Normal Male Home & Lifestyle 99.92 6  
4 2/26/2024 Brooklyn Normal Male Fashion & Accs 99.89 2  
5 4/22/2024 Brooklyn Member Male Fashion & Accs 99.89 2  
6 5/11/2024 Brooklyn Member Male Health & Beauty 99.83 1  
7 5/22/2024 Brooklyn Member Male Food & Beverages 99.79 1  
8 5/23/2024 Brooklyn Normal Female Food & Beverages 99.78 4  
9 3/2/2024 Brooklyn Normal Female Electronics 99.73 9  
10 2/26/2024 Brooklyn Normal Female Health & Beauty 99.71 6  
Payment Rating  
1 Credit card 4.2  
2 Credit card 4.2  
3 Ewallet 7.1  
4 Ewallet 7.1  
5 Ewallet 7.1  
6 Credit card 8.4  
7 Ewallet 8.8  
8 Ewallet 8.4  
9 Credit card 6.5  
10 Ewallet 7.9  
> big_buyers_by_rating <- super |>  
+ filter(Quantity > 5) |>  
+ arrange(Rating)  
> cat("Top 5 customers with Quantity > 5 and lowest Rating:\n")  
Top 5 customers with Quantity > 5 and lowest Rating:  
> print(big_buyers_by_rating |> select(Quantity, Rating, Unit.price, Branch) |> head(5))  
Quantity Rating Unit.price Branch  
1 7 3 98.07 Brooklyn  
2 8 3 12.88 Manhattan  
3 6 3 22.01 Brooklyn  
4 7 3 14.12 Manhattan  
5 7 3 9.54 Brooklyn  
> |
```

The output shows a list of 10 transactions with columns for date, location, member status, gender, category, rating, and quantity. It also shows a payment rating table and the top 5 customers with the lowest rating among those with a quantity greater than 5.