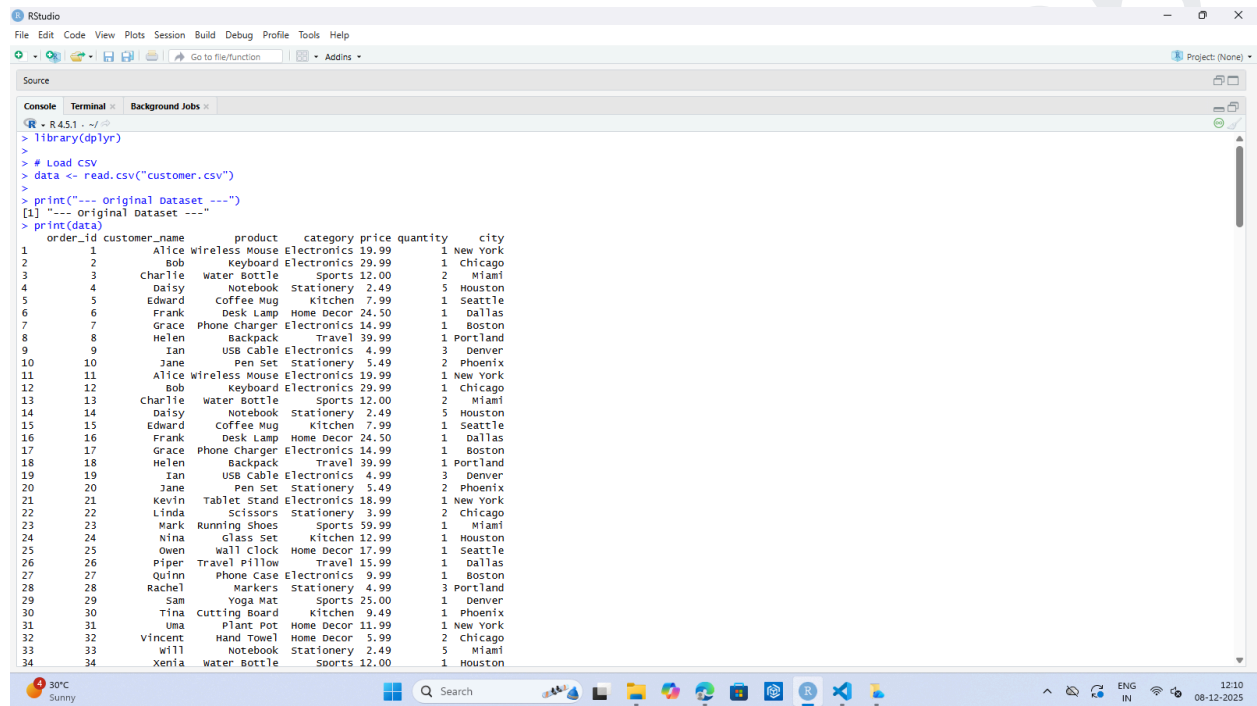# SHETH L.U.J. AND SIR M.V. COLLEGE OF ARTS SCIENCE AND COMMERCE

SUBJECT : R Programming

Practical No 13

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

Output :

NAME : SHUBHAM SANJAY KARAPE
ROLL NO : S085

```
98      98      Vincent    Hand Towel   Home Decor   5.99      2   Chicago
99      99         Will       Notebook   Stationery   2.49      5     Miami
100    100        Xenia    Water Bottle      Sports  12.00      1   Houston
>
> # Identify duplicates
> duplicates_report <- data %>%
+   group_by(across(everything())) %>%
+   count() %>%
+   filter(n > 1)
>
> print("--- Duplicate Rows ---")
[1] "--- Duplicate Rows ---"
> print(duplicates_report)
# A tibble: 0 × 8
# Groups:   order_id, customer_name, product, category, price, quantity, city [0]
# i 8 variables: order_id <int>, customer_name <chr>, product <chr>, category <chr>, price <dbl>, quantity <int>, city <chr>, n <int>
>
> # Remove exact duplicates
> clean_exact <- data %>% distinct()
> print("--- Exact Duplicates Removed ---")
[1] "--- Exact Duplicates Removed ---"
> print(clean_exact)
   order_id customer_name       product     category price quantity      city
1         1         Alice Wireless Mouse  Electronics 19.99        1  New York
2         2           Bob      Keyboard  Electronics 29.99        1   Chicago
3         3       Charlie  Water Bottle       Sports 12.00        2     Miami
4         4         Daisy      Notebook   Stationery  2.49        5   Houston
5         5        Edward    Coffee Mug      Kitchen  7.99        1   Seattle
6         6         Frank     Desk Lamp   Home Decor 24.50        1    Dallas
7         7         Grace Phone Charger  Electronics 14.99        1    Boston
8         8         Helen      Backpack       Travel 39.99        1  Portland
9         9           Ian     USB Cable  Electronics  4.99        3    Denver
10       10          Jane       Pen Set   Stationery  5.49        2   Phoenix
11       11         Alice Wireless Mouse  Electronics 19.99        1  New York
12       12           Bob      Keyboard  Electronics 29.99        1   Chicago
13       13       Charlie  Water Bottle       Sports 12.00        2     Miami
14       14         Daisy      Notebook   Stationery  2.49        5   Houston
15       15        Edward    Coffee Mug      Kitchen  7.99        1   Seattle
16       16         Frank     Desk Lamp   Home Decor 24.50        1    Dallas
17       17         Grace Phone Charger  Electronics 14.99        1    Boston
18       18         Helen      Backpack       Travel 39.99        1  Portland
19       19           Ian     USB Cable  Electronics  4.99        3    Denver
20       20          Jane       Pen Set   Stationery  5.49        2   Phoenix
```



```
59       59           Ian     USB Cable  Electronics  4.99        3    Denver
60       60          Jane       Pen Set   Stationery  5.49        2   Phoenix
61       61         Kevin  Tablet Stand  Electronics 18.99        1  New York
62       62         Linda      Scissors   Stationery  3.99        2   Chicago
63       63          Mark Running Shoes       Sports 59.99        1     Miami
64       64          Nina     Glass Set      Kitchen 12.99        1   Houston
65       65          Owen    Wall Clock   Home Decor 17.99        1   Seattle
66       66         Piper Travel Pillow       Travel 15.99        1    Dallas
67       67         Quinn    Phone Case  Electronics  9.99        1    Boston
68       68        Rachel       Markers   Stationery  4.99        3  Portland
69       69           Sam      Yoga Mat       Sports 25.00        1    Denver
70       70          Tina Cutting Board      Kitchen  9.49        1   Phoenix
71       71           Uma     Plant Pot   Home Decor 11.99        1  New York
72       72       Vincent    Hand Towel   Home Decor  5.99        2   Chicago
73       73          Will      Notebook   Stationery  2.49        5     Miami
74       74         Xenia  Water Bottle       Sports 12.00        1   Houston
75       75          Yara    Coffee Mug      Kitchen  7.99        1   Seattle
76       76          Zack     Desk Lamp   Home Decor 24.50        1    Dallas
77       77         Alice Wireless Mouse  Electronics 19.99        1  New York
78       78           Bob      Keyboard  Electronics 29.99        1   Chicago
79       79       Charlie  Water Bottle       Sports 12.00        2     Miami
80       80         Daisy      Notebook   Stationery  2.49        5   Houston
81       81        Edward    Coffee Mug      Kitchen  7.99        1   Seattle
82       82         Frank     Desk Lamp   Home Decor 24.50        1    Dallas
83       83         Grace Phone Charger  Electronics 14.99        1    Boston
84       84         Helen      Backpack       Travel 39.99        1  Portland
85       85           Ian     USB Cable  Electronics  4.99        3    Denver
86       86          Jane       Pen Set   Stationery  5.49        2   Phoenix
87       87         Kevin  Tablet Stand  Electronics 18.99        1  New York
88       88         Linda      Scissors   Stationery  3.99        2   Chicago
89       89          Mark Running Shoes       Sports 59.99        1     Miami
90       90          Nina     Glass Set      Kitchen 12.99        1   Houston
91       91          Owen    Wall Clock   Home Decor 17.99        1   Seattle
92       92         Piper Travel Pillow       Travel 15.99        1    Dallas
93       93         Quinn    Phone Case  Electronics  9.99        1    Boston
94       94        Rachel       Markers   Stationery  4.99        3  Portland
95       95           Sam      Yoga Mat       Sports 25.00        1    Denver
96       96          Tina Cutting Board      Kitchen  9.49        1   Phoenix
97       97           Uma     Plant Pot   Home Decor 11.99        1  New York
98       98       Vincent    Hand Towel   Home Decor  5.99        2   Chicago
99       99          Will      Notebook   Stationery  2.49        5     Miami
100     100         Xenia  Water Bottle       Sports 12.00        1   Houston
>
```

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```
95    95      Sam    Yoga Mat      Sports 25.00     1   Denver
96    96     Tina  Cutting Board  Kitchen  9.49     1  Phoenix
97    97      Uma    Plant Pot  Home Decor 11.99    1 New York
98    98  Vincent   Hand Towel  Home Decor  5.99    2  Chicago
99    99     Will     Notebook  Stationery  2.49    5    Miami
100  100    Xenia  Water Bottle     Sports 12.00    1  Houston
>
> # Keep unique customers (first occurrence)
> unique_customers <- data %>%
+   distinct(customer_name, .keep_all = TRUE)
>
> print("--- Unique Customers ---")
[1] "--- Unique Customers ---"
> print(unique_customers)
   order_id customer_name       product   category price quantity     city
1         1        Alice Wireless Mouse Electronics 19.99       1 New York
2         2          Bob      Keyboard Electronics 29.99        1  Chicago
3         3      Charlie  Water Bottle      Sports 12.00        2    Miami
4         4        Daisy      Notebook  Stationery  2.49        5  Houston
5         5       Edward     Coffee Mug     Kitchen  7.99       1  Seattle
6         6        Frank      Desk Lamp Home Decor 24.50        1   Dallas
7         7        Grace  Phone Charger Electronics 14.99       1   Boston
8         8        Helen      Backpack       Travel 39.99       1 Portland
9         9          Ian     USB Cable Electronics  4.99        3   Denver
10       10         Jane       Pen Set  Stationery  5.49        2  Phoenix
11       21        Kevin  Tablet Stand Electronics 18.99        1 New York
12       22        Linda      Scissors  Stationery  3.99        2  Chicago
13       23         Mark  Running Shoes     Sports 59.99        1    Miami
14       24         Nina     Glass Set     Kitchen 12.99        1  Houston
15       25         Owen    Wall Clock Home Decor 17.99         1  Seattle
16       26        Piper  Travel Pillow     Travel 15.99        1   Dallas
17       27        Quinn    Phone Case Electronics  9.99        1   Boston
18       28       Rachel       Markers  Stationery  4.99       3 Portland
19       29          Sam      Yoga Mat      Sports 25.00        1   Denver
20       30         Tina  Cutting Board     Kitchen  9.49       1  Phoenix
21       31          Uma     Plant Pot Home Decor 11.99         1 New York
22       32      Vincent    Hand Towel Home Decor  5.99         2  Chicago
23       33         Will      Notebook  Stationery  2.49        5    Miami
24       34        Xenia  Water Bottle     Sports 12.00        1  Houston
25       35         Yara    Coffee Mug     Kitchen  7.99        1  Seattle
26       36         Zack     Desk Lamp Home Decor 24.50         1   Dallas
>
```

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