

**MVLU COLLEGE**  
**Data analysis with SAS/SSPR/R**  
**PRACTICAL NO.13**

**Aim:** 13. Identifying and handling duplicates using distinct() (R studio ).

**INPUT:**

```
library(dplyr)
```

```
amazon_df <- read.csv("D:/S119/DATA ANAN/Amazon.csv", na.strings = c("", "NA"))
```

```
print("--- 1. Original Dataset (Note rows) ---")  
print(amazon_df)
```

```
duplicates_report <- amazon_df %>%  
  group_by(OrderID, CustomerName, ProductName) %>%  
  count() %>%  
  filter(n > 1)
```

```
print("--- 2. Identification Report (Rows that are duplicated, ---")  
print(duplicates_report)
```

```
clean_exact <- amazon_df %>%  
  distinct()
```

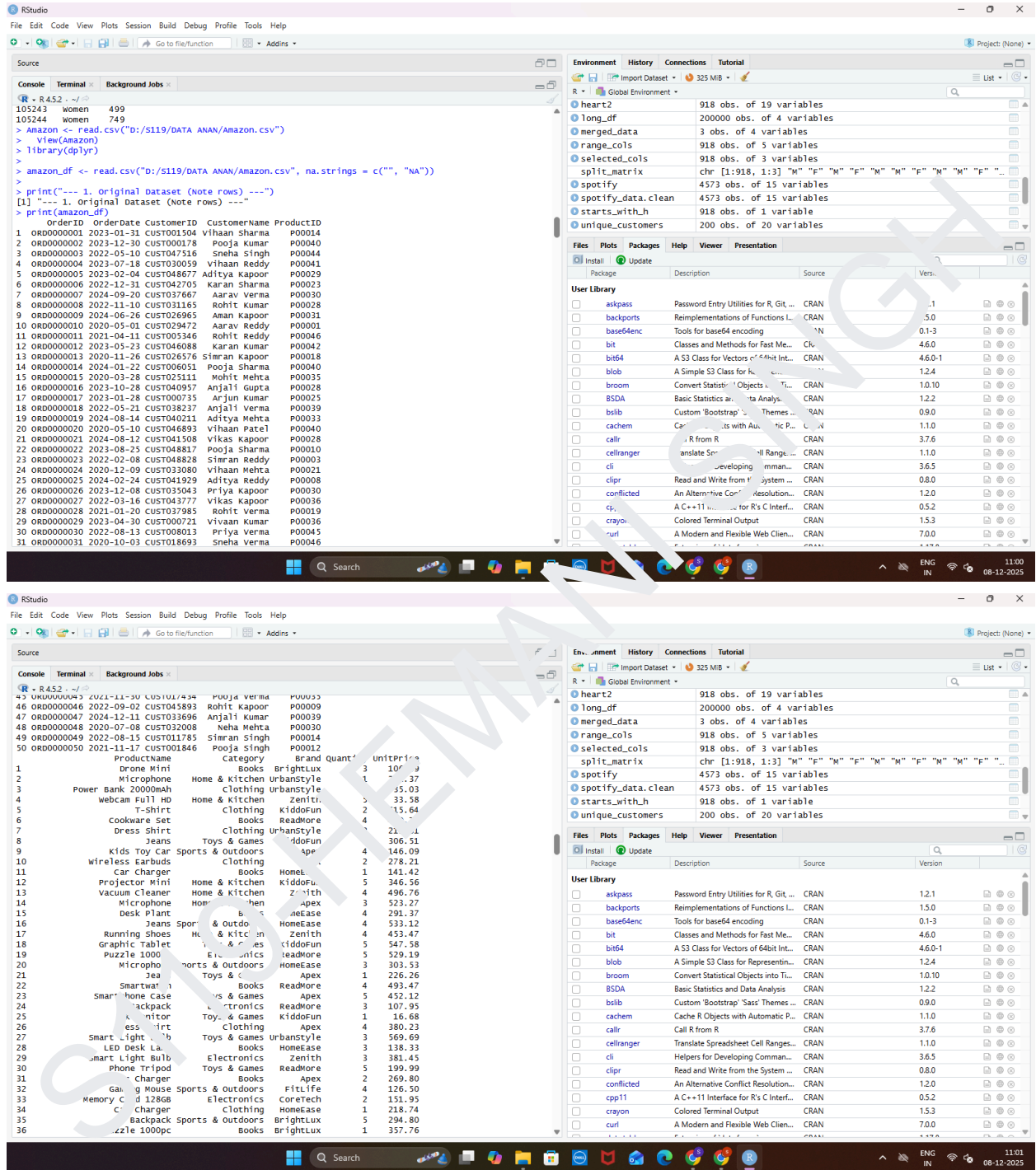
```
print("--- 3. Removed Exact Duplicates (distinct) ---")  
print(clean_exact)
```

```
unique_customers <- amazon_df %>%  
  distinct(CustomerName, .keep_all = TRUE)
```

```
print("--- 4. Unique Customers Only (Partial Duplicates removed) ---")  
print(unique_customers)
```

**OUTPUT:**

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The top screenshot shows the RStudio interface with a dataset loaded. The console displays the following data:

Product	PaymentMethod	OrderStatus
Running shoes	Toys & Games	HomeEase
Desk Plant	Electronics	Apex
Portable SSD 1TB	Toys & Games	HomeEase
Graphic tablet	Electronics	CoreTech
Dress shirt	Toys & Games	FITLife
Drone Mini	Books	ReadMore
Noise Cancelling Headphones	Books	KiddoFun

The bottom screenshot shows the RStudio interface with the same dataset. The console displays the following data:

OrderID	OrderDate	CustomerID	CustomerName	ProductID
1	2023-01-31	CUST001504	Karan Sharma	P00014
2	2023-12-30	CUST00178	Arjun Kumar	P00040
3	2022-05-10	CUST03165	Sneha Singh	P00044
4	2023-07-18	CUST03165	Vihan	P00041
5	2023-02-04	CUST0486	Aditya Kapoor	P00029
6	2022-11-31	CUST042705	Karan Sharma	P00023
7	2024-10-30	CUST037667	Arav Verma	P00030
8	2022-11-30	CUST031165	Arjit Kumar	P00028
9	2024-12-26	CUST026965	Aman Kapoor	P00031
10	2020-03-01	CUST029472	Aarav Reddy	P00001
11	2021-04-11	CUST015346	Rohit Reddy	P00046
12	2023-05-23	CUST0188	Karan Kumar	P00042
13	2020-11-26	CUST020576	Srinan Kapoor	P00018
14	2020-11-22	CUST006051	Pooja Sharma	P00040
15	2020-11-08	CUST025111	Mohit Mehta	P00035
16	2023-10-08	CUST040957	Anjali Gupta	P00028
17	2023-01-08	CUST000735	Arjun Kumar	P00025
18	2022-11-21	CUST038237	Anjali Verma	P00039
19	2020-08-14	CUST040211	Aditya Mehta	P00033

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The image displays two screenshots of the RStudio interface, showing data analysis code and results.

**Top Screenshot:**

- Console:** Shows R code for data manipulation. The code includes a loop to process data for each country (San Jose, CA, India, SELL01908), a function to get unique customers, and a print statement for unique customers only (Partial Duplicates removed).
- Environment:** Lists variables created in the R session, including heart2 (918 obs. of 19 variables), long\_df (200000 obs. of 4 variables), merged\_data (3 obs. of 4 variables), range\_cols (918 obs. of 5 variables), selected\_cols (918 obs. of 3 variables), split\_matrix (chr [1:918, 1:3] "M" "F" "M" "M" "F" "M" "F" "M" "F" "..."), spotify (4573 obs. of 15 variables), spotify\_data\_clean (4573 obs. of 15 variables), starts\_with\_h (918 obs. of 1 variable), and unique\_customers (200 obs. of 20 variables).
- Files:** Shows a list of files in the project directory, including R scripts and data files.

**Bottom Screenshot:**

- Console:** Shows R code for data manipulation. The code includes a loop to process data for each country (Jacksonville, FL, Australia, SELL01217), a function to get unique customers, and a print statement for unique customers only (Partial Duplicates removed).
- Environment:** Lists variables created in the R session, including heart2 (918 obs. of 19 variables), long\_df (200000 obs. of 4 variables), merged\_data (3 obs. of 4 variables), range\_cols (918 obs. of 5 variables), selected\_cols (918 obs. of 3 variables), split\_matrix (chr [1:918, 1:3] "M" "F" "M" "M" "F" "M" "F" "M" "F" "..."), spotify (4573 obs. of 15 variables), spotify\_data\_clean (4573 obs. of 15 variables), starts\_with\_h (918 obs. of 1 variable), and unique\_customers (200 obs. of 20 variables).
- Files:** Shows a list of files in the project directory, including R scripts and data files.

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