

## **MVLU COLLEGE.**

PRACTICAL NO :- 03

AIM :- Exploring data: View() or print() (R).

CODE :-

```
install.packages(c("readr", "psych"))
```

```
library(readr) # For efficient data reading  
library(psych) # For descriptive statistics
```

```
my_data <- read.csv("C:/Users/itlab/Downloads/S100/sales_data.csv")
```

```
# View the first few rows  
head(my_data)
```

```
tail(my_data)
```

```
dim(my_data)
```

```
cat("Dimensions (Rows, Columns): ", dim(my_data), "\n")
```

```
str(my_data)
```

```
summary(my_data)
```

```
names(my_data)
```

```
cat("Column Names: ", names(my_data), "\n")
```

```
library(psych)  
describe(my_data)
```

# MVLU COLLEGE.



RStudio Environment View

```

install.packages(c("readr", "psych"))
library(readr) # For efficient data reading
library(psych) # For descriptive statistics
my_data <- read.csv("c:/users/itlab/downloads/s100/sales_data.csv")
# View the first few rows
head(my_data)
tail(my_data)
dim(my_data)
cat("Dimensions (Rows, Columns): ", dim(my_data), "\n")
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summary(my_data)
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Cat."Column Names: ", names(my_data), "\n"
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describe(my_data)

```

RStudio Console View

```

R > R452 :/-
1 1021 2023-02-11 Charlie West 3761.15 32 Food 900.79
2 267.22 Returning 0.09 Cash Online North-Bob
3 4209.44 Returning 0.11 Cash Retail West-Bob
4 371.40 Returning 0.20 Bank Transfer Retail South-David

```

RStudio Environment View

```

Source Terminal Background Jobs
(R - R452 :/-
Column Name: Product_ID Sale_Date Sales_Rep Region Sales_Amount Quantity_Sold Product_Category Unit_Cost
> > view(my_data)
> view(my_data)
> # View the first few rows
> head(my_data)
Product_ID Sale_Date Sales_Rep Region Sales_Amount Quantity_Sold Product_Category Unit_Cost
1 1052 2023-02-03 Bob North 5033.97 Furniture 152.75
2 1093 2023-04-21 Bob West 4384.02 17 Furniture 3816.39
3 1015 2023-09-21 David South 4631.23 30 Food 261.56
4 1072 2023-08-24 Bob South 2167.94 39 Clothing 4330.03
5 1061 2023-03-24 Charlie East 3750.20 13 Electronics 637.37
6 1021 2023-02-11 Charlie West 3761.15 32 Food 900.79
Unit_Price Customer_Type Discount Payment_Method Sales_Channel Region_and_Sales_Rep
1 267.22 Returning 0.09 Cash Online North-Bob
2 4209.44 Returning 0.11 Cash Online West-Bob
3 371.40 Returning 0.20 Bank Transfer Retail South-David
4 4467.75 New 0.02 Credit Card Retail South-Sob
5 692.71 New 0.08 Credit Card Online East-Charlie
6 1106.51 New 0.21 Cash Online West-Charlie
> tail(my_data)
Product_ID Sale_Date Sales_Rep Region Sales_Amount Quantity_Sold Product_Category Unit_Cost
995 1064 2023-04-06 Alice South 9093.50 31 Clothing 3169.37
996 1010 2023-04-15 Charlie North 4733.88 4 Food 4943.03
997 1049 2023-04-15 Charlie North 4733.88 37 Clothing 3144.32
998 1018 2023-04-27 David South 7629.70 17 Clothing 393.72
999 1100 2023-12-20 David West 1629.47 39 Electronics 3683.03
1000 1080 2023-08-16 Alice East 4923.93 48 Food 2632.58
Unit_Price Customer_Type Discount Payment_Method Sales_Channel Region_and_Sales_Rep
995 3304.15 Returning 0.25 Credit Card Retail South-Alice
996 5442.15 Returning 0.29 Cash Online North-Charlie
997 1856.40 New 0.21 Bank Transfer Retail North-Bob
998 438.29 Returning 0.06 Bank Transfer Online South-David
999 3240.49 New 0.01 Bank Transfer Online West-David
1000 2926.68 Returning 0.14 Cash Online East-Alice
> dim(my_data)
[1] 1000 14
> cat("Dimensions (Rows, Columns): ", dim(my_data), "\n")
Dimensions (Rows, Columns): 1000 14
>
> summary(my_data)
Product_ID Sale_Date Sales_Rep Region Sales_Amount

```

# MVLU COLLEGE.

The screenshot shows the RStudio interface with the following details:

- Console Tab:** Displays R code and its output. The code includes `cat("dimensions (Rows, columns): ", dim(my\_data), "\n")` and `summary(my\_data)`. The output shows dimensions of 1000 rows and 14 variables, with various statistical summaries for each column like Min., Max., Mean, Median, etc.
- Data View:** Shows three datasets in the Data view:
  - my\_data:** 1000 obs. of 14 variables
  - sales\_data:** 1000 obs. of 14 variables
  - student.Mental.health:** 101 obs. of 11 variables
- Environment View:** Shows the global environment with objects like my\_data, sales\_data, and student.Mental.health.
- Bottom Status Bar:** Shows system information including battery level (S1C), weather (Sunny), search bar, taskbar icons, and system status (ENG IN, 12:32, 24-11-2025).