

MVLU

PRACTICAL NO 3

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

OUTPUT:

The screenshot shows the RStudio interface with the following details:

- File Menu:** File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Addins:** Go to file/function, Addins -
- Source:** A code editor window containing R code for loading an Amazon CSV file and displaying its first few rows.
- Data:** An environment pane showing two datasets:
 - amazon:** 1465 obs. of 16 variables
 - amazon_data:** 1465 obs. of 16 variables
- Files:** A sidebar listing files in the current directory, including AIM.docx, amazon.csv, amazon.csv.zip, aniproject.sql, anti raggings.pdf, AVCLabs Video Enhancer AI, Blackmagic Design, bmi.csv, checksq1, CN.pdf, connection.sql, Custom Office Templates, database_db.sql, desktop.ini, Experience-Salary.csv, graph scala m2 1.py, heart.csv, and HINDI ANSWERS.docx.

The screenshot shows the RStudio interface with a Shiny application running. The top menu bar includes File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help, and Addins. A sidebar on the left lists 'Source' and 'Environment'. The 'Environment' tab shows objects like 'amazon' and 'amazon_data'. The main area displays a Shiny dashboard with tabs for 'Home', 'About', and 'Contact'. The 'Home' tab contains sections for 'Product Categories', 'Recent Products', and 'Customer Support'. The 'Recent Products' section lists items such as 'NGI Store 2 Pieces Pet Hair Removers', 'Bajaj Majesty RX10 2000 Watts Heat Convector Room Heater', and 'Borosil Jumbo 1000-watt Grill Sandwich Maker'. The 'Customer Support' section shows a table with columns 'category', 'name', and 'details'. The bottom right corner shows a 'Project: (None)' message.

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The figure shows two RStudio sessions side-by-side, both titled "RStudio".

Session 1 (Left):

- Code:** Displays R code for reading an Amazon dataset and printing its dimensions and structure.
- Data:** Shows the "amazon" dataset with 1465 observations and 16 variables, and the "amazon_data" dataset with 1465 observations and 16 variables.

Session 2 (Right):

- Code:** Displays R code for reading an Amazon dataset and printing its dimensions and structure.
- Data:** Shows the "amazon" dataset with 1465 observations and 16 variables, and the "amazon_data" dataset with 1465 observations and 16 variables.

Global Environment: Both sessions share a common Global Environment tab at the top right, which lists the following objects:

- AIM.docx
- amazon.csv
- amazon.csv.zip
- aniproject.sql
- anti raggings.pdf
- AVCLabs Video Enhancer AI
- Blackmagic Design
- bmi.csv
- checksql
- CN.pdf
- connection.sql
- Custom Office Templates
- database.db.sql
- desktop.ini
- Experience-Salary.csv
- graph scala m2 1.py
- heart.csv
- HINDI ANSWERS.docx

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The screenshot shows the RStudio interface. The top menu bar includes File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help, and Addins. The main area displays the following R code in the console:

```
> library(psych) # For descriptive statistics
> # Detailed descriptive statistics using psych package
> describe(amazon)

library(psych) # For descriptive statistics
# Detailed descriptive statistics using psych package
describe(amazon)

vars n mean sd median trimmed mad min max range skew
product_id# 1 1465 679.74 386.03 682 680.60 493.71 1 1351 1350 -0.02
product_name# 2 1465 667.55 386.65 667 663.38 498.15 1 1339 1336 -0.01
category# 3 1465 96.10 60.59 98 95.04 81.54 1 1311 210 -0.05
discounted_price# 4 1465 270.07 161.97 273 267.81 209.05 1 550 549 0.09
actual_price# 5 1465 234.31 144.58 243 234.35 198.67 1 449 448 -0.02
discount_percentage# 6 1465 44.31 22.47 46 44.69 23.72 1 92 91 -0.14
rating# 7 1465 19.68 3.28 20 19.99 2.97 1 28 27 -1.20
rating_count# 8 1465 571.70 331.03 564 571.06 419.58 1 1144 1143 0.02
about_product# 9 1465 639.70 377.16 630 638.76 490.74 1 1293 1292 0.02
user_id# 10 1465 599.29 346.56 600 599.19 447.77 1 1194 1193 0.01
user_name# 11 1465 34.69 6.69 614 608.50 547.45 1 1212 1213 -0.03
review_id# 12 1465 588.97 342.12 588 587.76 434.40 1 1194 1193 0.03
review_title# 13 1465 601.45 349.83 603 601.94 450.71 1 1194 1193 -0.01
review_content# 14 1465 598.62 351.79 589 597.05 452.19 1 1212 1211 0.04
img_link# 15 1465 703.72 407.11 699 703.03 523.36 1 1412 1411 0.02
product_link# 16 1465 733.00 423.05 733 733.00 542.63 1 1465 1464 0.00

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```

The error message "Error in describe(amazon) : could not find function "describe"" is displayed in the console. The right panel shows the project structure and files:

- Environment: Global Environment
- Data: amazon (1465 obs. of 16 variables), amazon_data (1465 obs. of 16 variables)
- Files: Home, desktop.ini, Experience-Salary.csv, graph scala.m2 1.py, heart.csv, HINDI ANSWERS.docx, human_friendly_moving_averages.png, JAVA.VIDEO.mp4, Main_Page_Format_of_Project_Report[1].docx, Marvel's Spider-Man 2, Marvel's Spider-Man Remastered, medical_insurance.csv, message_board.sql, MessiRonaldo.csv, moving_averages.png, My Games, NetBeansProjects, PRACTICAL 3 QUESTIONS.pdf, Practical No.1.docx