

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

SUBJECT :- DATA ANALYSIS OF SAS/SPSS/R

PRACTICAL – 12

AIM:- Generating correlation matrices using `cor()` (R).

OUTPUT:-

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Source

Console Terminal Background Jobs

```
R - R 4.5.2 . ~/r/...
... Student_ID = col_character(),
... Name = col_character(),
... Class = col_character(),
... SSC_Marks = col_double(),
... HSC_Marks = col_double(),
... College_Marks = col_double(),
... Attendance_Percentage = col_double(),
... Grade = col_character()
...
- attr(*, "problems")-<externalptr>
> # Select only numeric columns
> numeric_marks <- marks_data %>%
+   select(where(is.numeric))
>
> # Generate correlation matrix
> cor_matrix <- cor(numeric_marks, use = "complete.obs")
>
> # Display correlation matrix
> cor_matrix
SSC_Marks      HSC_Marks    College_Marks Attendance_Percentage
SSC_Marks 1.000000000 0.002042697 0.005014142 0.012463227
HSC_Marks -0.003042697 1.000000000 -0.082894671 -0.062323312
College_Marks 0.005014142 -0.082894671 1.000000000 0.002087672
Attendance_Percentage 0.013463327 -0.062323312 0.002087672 1.000000000
>
> # Display rounded correlation matrix (exam-friendly)
> round(cor_matrix, 2)
SSC_Marks      HSC_Marks    College_Marks Attendance_Percentage
SSC_Marks 1.00      0.00       0.01        0.01
HSC_Marks 0.00      1.00       -0.08       -0.06
College_Marks 0.01     -0.08      1.00        0.00
Attendance_Percentage 0.01     -0.06      0.00        1.00
>
```

Project: (None) Environment

Files Box Plot

Number of Kills (Blue Team)

The box plot displays the distribution of the 'Number of Kills (Blue Team)' variable. The y-axis ranges from 0 to 120. The median is approximately 40. The box spans from about 25 to 55. The whiskers extend from 0 to 120. There are several outliers above the upper whisker, with one notable point at approximately 115.

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