

Practical No 11 Module II

Aim : Generating histograms and box plots using ggplot2.

Output :

```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
+ - Go to file/function Addins Project (None)
Source
Console Terminal Background Jobs
R 4.5.2 · ~/~
> #importing libraries
>
> library(ggplot2)
> library(dplyr)
> library(readr)
>
> #loading datasets
>
> employee <- read_csv("employee_salary_dataset.csv")
Rows: 50 Columns: 9
Column specification:
Delimiter: ","
chr (5): Name, Department, Education_Level, Gender, City
dbl (4): EmployeeID, Experience_Years, Age, Monthly_Salary

i Use `spec()` to retrieve the full column specification for this data.
i Specify the column types or set `show_col_types = FALSE` to quiet this message.
>
> #printing some data
>
> head(employee)
# A tibble: 6 × 9
  EmployeeID Name      Department Experience_Years Education_Level   Age Gender City     Monthly_Salary
  <dbl> <chr>    <chr>           <dbl> <chr>       <dbl> <chr> <chr>      <dbl>
1      1 Employee_1 Marketing        15 Master        53 Female Delhi    111416
2      2 Employee_2 Operations       7 Bachelor      25 Female Bangalore 95271
3      3 Employee_3 IT              12 High School  51 Female Hyderabad 69064
4      4 Employee_4 Operations       8 PhD          44 Male  Delhi    95091
5      5 Employee_5 Operations       15 Master       36 Female Delhi    132450
6      6 Employee_6 Finance          3 High School  50 Male  Mumbai   65818
>
> #plotting histogram
9 USD/INR +0.38%
```

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RStudio

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Go to file/function Addins

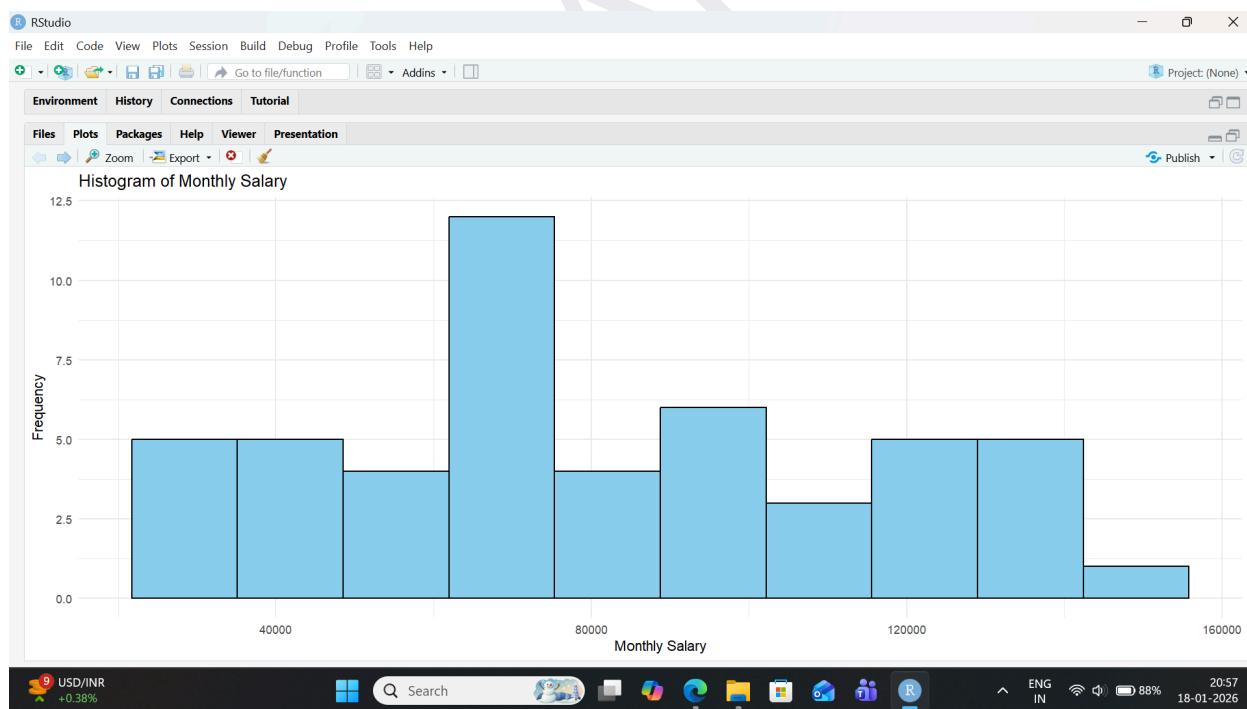
Source

Console Terminal Background Jobs

R 4.5.2 ->

```
<db1> <chr> <db1> <chr> <db1> <chr> <db1> <chr>
1 Employee_1 Marketing 15 Master 53 Female Delhi 111416
2 Employee_2 Operations 7 Bachelor 25 Female Bangalore 95271
3 Employee_3 IT 12 High School 51 Female Hyderabad 69064
4 Employee_4 Operations 8 PhD 44 Male Delhi 95091
5 Employee_5 Operations 15 Master 36 Female Delhi 132450
6 Employee_6 Finance 3 High School 50 Male Mumbai 65818

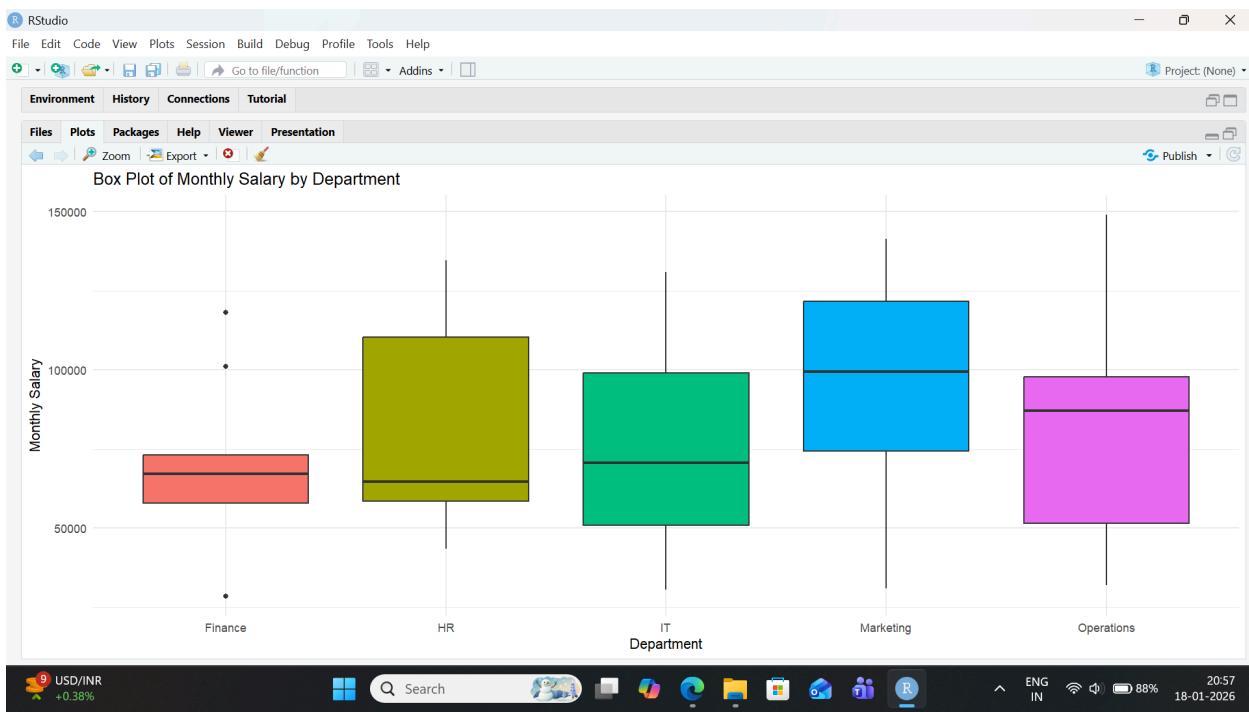
> #plotting histogram
>
> ggplot(employee, aes(x = Monthly_Salary)) +
+   geom_histogram(bins = 10, fill = "skyblue", color = "black") +
+   labs(
+     title = "Histogram of Monthly Salary",
+     x = "Monthly Salary",
+     y = "Frequency"
+   ) +
+   theme_minimal()
>
> #plotting box plot
>
> ggplot(employee, aes(x = Department, y = Monthly_Salary, fill = Department)) +
+   geom_boxplot() +
+   labs(
+     title = "Box Plot of Monthly salary by Department",
+     x = "Department",
+     y = "Monthly Salary"
+   ) +
+   theme_minimal() +
+   theme(legend.position = "none")
> |
```



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