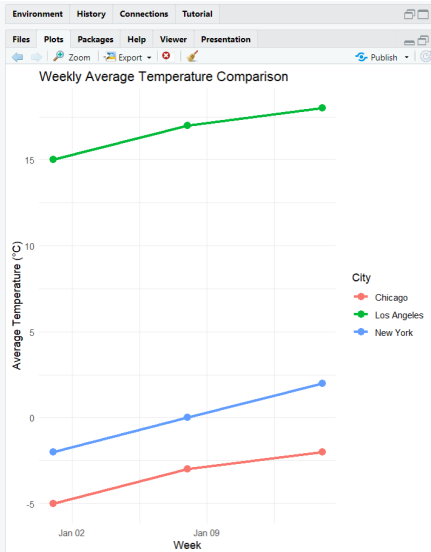


```
1 library(ggplot2)
2 library(tidyr)
3 library(dplyr)
4 temperature_data <- data.frame(
5   Week = rep(c("2023-01-01", "2023-01-08", "2023-01-15"), each = 3),
6   City = rep(c("New York", "Los Angeles", "Chicago"), times = 3),
7   Avg_Temp = c(-2, 15, -5, 0, 17, -3, 2, 18, -2)
8 )
9 temperature_data$Week <- as.Date(temperature_data$Week)
10 ggplot(temperature_data, aes(x = Week, y = Avg_Temp, color = City, group = City)) +
11   geom_line(size = 1.2) +
12   geom_point(size = 3) +
13   labs(title = "Weekly Average Temperature Comparison",
14        x = "Week", y = "Average Temperature ('C)") +
15   theme_minimal()
16
```

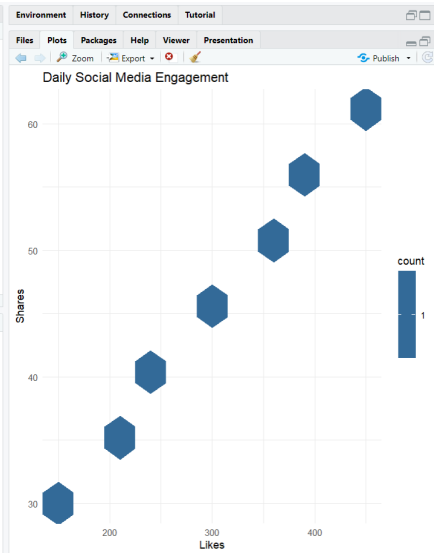
```
> # Dataset
> temperature_data <- data.frame(
+   Week = rep(c("2023-01-01", "2023-01-08", "2023-01-15"), each = 3),
+   City = rep(c("New York", "Los Angeles", "Chicago"), times = 3),
+   Avg_Temp = c(-2, 15, -5, 0, 17, -3, 2, 18, -2)
+ )
>
> # Convert Week to Date
> temperature_data$Week <- as.Date(temperature_data$Week)
>
> # Line plot
> ggplot(temperature_data, aes(x = Week, y = Avg_Temp, color = City, group = City)) +
+   geom_line(size = 1.2) +
+   geom_point(size = 3) +
+   labs(title = "Weekly Average Temperature Comparison",
+        x = "Week", y = "Average Temperature ('C)") +
+   theme_minimal()
>
```



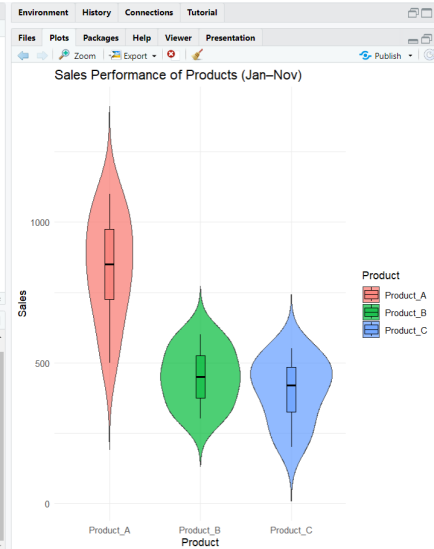
```
1 library(ggplot2)
2 library(hexbin)
3 engagement_data <- data.frame(
4   Date = as.Date("2023-01-01") + 0:6,
5   Likes = c(150, 200, 250, 300, 350, 400, 450),
6   Comments = c(20, 25, 30, 35, 40, 45, 50),
7   Shares = c(30, 35, 40, 45, 50, 55, 60)
8 )
9
10 # Hexbin plot
11 ggplot(engagement_data, aes(x = Likes, y = Shares)) +
12   geom_hex(bins = 10) +
13   labs(title = "Daily Social Media Engagement",
14        x = "Likes", y = "Shares") +
15   theme_minimal()
16 |
```

16:1 (Top Level) R Script

```
R 4.4.2 · ~ /
> library(ggplot2)
> library(hexbin)
> engagement_data <- data.frame(
+   Date = as.Date("2023-01-01") + 0:6,
+   Likes = c(150, 200, 250, 300, 350, 400, 450),
+   Comments = c(20, 25, 30, 35, 40, 45, 50),
+   Shares = c(30, 35, 40, 45, 50, 55, 60)
+ )
>
> # Hexbin plot
> ggplot(engagement_data, aes(x = Likes, y = Shares)) +
+   geom_hex(bins = 10) +
+   labs(title = "Daily Social Media Engagement",
+        x = "Likes", y = "Shares") +
+   theme_minimal()
> |
```



```
lot.R × violin Plot.R × Heatmap.R × Face Plot.R × Line plot with multiple variables.R × Violin 2.R × Stacked Bar.R × Histogram 2. ×  
Source on Save  
1 library(ggplot2)  
2 library(tidyr)  
3 library(dplyr)  
4 sales_data <- data.frame(  
5   Month = month.abb[1:11],  
6   Product_A = c(500, 600, 700, 800, 750, 850, 900, 950, 1000, 1050, 1100),  
7   Product_B = c(300, 320, 350, 400, 420, 450, 480, 500, 550, 580, 600),  
8   Product_C = c(200, 250, 300, 350, 400, 420, 450, 470, 500, 530, 550)  
9 )  
10 sales_long <- sales_data %>%  
11   pivot_longer(cols = starts_with("Product"), names_to = "Product", values_to = "Sales")  
12  
13 ggplot(sales_long, aes(x = Product, y = Sales, fill = Product)) +  
14   geom_violin(trim = FALSE, alpha = 0.7) +  
15   geom_boxplot(width = 0.1, color = "black", alpha = 0.6) +  
16   labs(title = "Sales Performance of Products (Jan-Nov)",  
17     x = "Product", y = "Sales") +  
18   theme_minimal()  
19 |  
  
19:1 (Top Level) ± R Script ±  
  
R - R 4.4.2 - ~/ R  
> library(tidyr)  
> library(dplyr)  
> sales_data <- data.frame(  
+   Month = month.abb[1:11],  
+   Product_A = c(500, 600, 700, 800, 750, 850, 900, 950, 1000, 1050, 1100),  
+   Product_B = c(300, 320, 350, 400, 420, 450, 480, 500, 550, 580, 600),  
+   Product_C = c(200, 250, 300, 350, 400, 420, 450, 470, 500, 530, 550)  
+ )  
> sales_long <- sales_data %>%  
+   pivot_longer(cols = starts_with("Product"), names_to = "Product", values_to = "Sales")  
>  
> ggplot(sales_long, aes(x = Product, y = Sales, fill = Product)) +  
+   geom_violin(trim = FALSE, alpha = 0.7) +  
+   geom_boxplot(width = 0.1, color = "black", alpha = 0.6) +  
+   labs(title = "Sales Performance of Products (Jan-Nov)",  
+     x = "Product", y = "Sales") +  
+   theme_minimal()  
> |
```



```
lotR <|> violin Plot.R <|> Heatmap.R <|> Face Plot.R <|> Line plot with multiple variables.R <|> Violin 2.R <|> Untitled1.R <|> Histogram 2.R <|>
Source on Save
1 library(ggplot2)
2 library(tidyr)
3 library(dplyr)
4 performance_data <- data.frame(
5   Month = rep(c("Jan", "Feb", "Mar"), each = 3),
6   Employee = rep(c("A", "B", "C"), times = 3),
7   Score = c(85, 90, 78, 88, 92, 80, 90, 94, 82)
8 )
9
10 # Histogram
11 ggplot(performance_data, aes(x = Score, fill = Employee)) +
12   geom_histogram(position = "dodge", bins = 5, alpha = 0.7, color = "black") +
13   labs(title = "Monthly Employee Performance Scores",
14        x = "Performance Score", y = "Count") +
15   theme_minimal()
16
```

16/1 (Top Level) z R Script z

```
R - R 4.4.2 - ~/ -/
> library(ggplot2)
> library(tidyr)
> library(dplyr)
> performance_data <- data.frame(
+   Month = rep(c("Jan", "Feb", "Mar"), each = 3),
+   Employee = rep(c("A", "B", "C"), times = 3),
+   Score = c(85, 90, 78, 88, 92, 80, 90, 94, 82)
+ )
>
> # Histogram
> ggplot(performance_data, aes(x = Score, fill = Employee)) +
+   geom_histogram(position = "dodge", bins = 5, alpha = 0.7, color = "black") +
+   labs(title = "Monthly Employee Performance Scores",
+        x = "Performance Score", y = "Count") +
+   theme_minimal()
>
```



```
lot.R × violin Plot.R × Heatmap.R × Face Plot.R × Line plot with multiple variables.R × Violin 2.R × Stacked Bar.R × Histogram 2 ×  
Source on Save Run Source  
2 library(tidyr)  
3 library(dplyr)  
4 satisfaction_data <- data.frame(  
5   Category = c("Product Quality", "Customer Service", "Value for Money"),  
6   Very_Dissatisfied = c(5, 10, 8),  
7   Dissatisfied = c(15, 20, 12),  
8   Neutral = c(25, 30, 28),  
9   Satisfied = c(35, 25, 32),  
10  Very_Satisfied = c(20, 15, 20)  
11 )  
12 |  
13 satisfaction_long <- satisfaction_data %>%  
14   pivot_longer(cols = ~Category, names_to = "Rating", values_to = "Count")  
15  
16 ggplot(satisfaction_long, aes(x = Category, y = Count, fill = Rating)) +  
17   geom_bar(stat = "identity") +  
18   labs(title = "Customer Satisfaction Ratings by Category",  
19     x = "Category", y = "Number of Responses") +  
20   theme_minimal() +  
21   theme(axis.text.x = element_text(angle = 20, hjust = 1))  
22  
12:1 (Top Level) R Script  
R - R 4.4.2 - ~/ R  
+ Category = c("Product Quality", "Customer Service", "Value for Money"),  
+ Very_Dissatisfied = c(5, 10, 8),  
+ Dissatisfied = c(15, 20, 12),  
+ Neutral = c(25, 30, 28),  
+ Satisfied = c(35, 25, 32),  
+ Very_Satisfied = c(20, 15, 20)  
+ )  
>  
> satisfaction_long <- satisfaction_data %>%  
>   pivot_longer(cols = ~Category, names_to = "Rating", values_to = "Count")  
>  
> ggplot(satisfaction_long, aes(x = Category, y = Count, fill = Rating)) +  
>   geom_bar(stat = "identity") +  
>   labs(title = "Customer Satisfaction Ratings by Category",  
>     x = "Category", y = "Number of Responses") +  
>   theme_minimal() +  
>   theme(axis.text.x = element_text(angle = 20, hjust = 1))  
>
```

