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library(ggplot2)
library(patchwork)
student_data <- data.frame(
  Student = c('Alice', 'Bob', 'Charlie', 'David', 'Eve', 'Frank', 'Grace', 'Hannah', 'Ivy', 'Jack'),
  Score = c(88, 92, 75, 85, 90, 78, 95, 80, 84, 91),
  Attendance = c(95, 88, 80, 85, 90, 75, 98, 82, 88, 91),
  Time = c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10) # Assuming scores were collected over time
)
scatter_plot <- ggplot(student_data, aes(x = Attendance, y = Score)) +
  geom_point(color = "blue", size = 3) +
  labs(title = "Scatter Plot of Scores vs. Attendance",
    x = "Attendance Percentage",
    y = "Score") +
  theme_minimal()
bar_plot <- ggplot(student_data, aes(x = Student, y = Score)) +
  geom_bar(stat = "identity", fill = "lightgreen") +
  labs(title = "Bar Plot of Scores by Student",
    x = "Student",
    y = "Score") +
  theme_minimal()
line_plot <- ggplot(student_data, aes(x = Time, y = Score)) +
  geom_line(color = "red") +
  geom_point(color = "red", size = 3) +
  labs(title = "Line Plot of Scores Over Time",
    x = "Time",
    y = "Score") +
  theme_minimal()
histogram <- ggplot(student_data, aes(x = Score)) +
  geom_histogram(binwidth = 5, fill = "lightblue", color = "black") +
  labs(title = "Histogram of Scores",
    x = "Score",
    y = "Frequency") +
  theme_minimal()
combined_plot <- (scatter_plot | bar_plot) / (line_plot | histogram) +
  plot_annotation(title = "Student Performance Analysis")

print(combined_plot)

```