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```
library(dplyr)
library(ggplot2)

purchase_data <- data.frame(
  CustomerID = c(101,102,103,104,105),
  PurchaseAmount = c(150,200,120,300,80)
)

mean_purchase <- mean(purchase_data$PurchaseAmount)
median_purchase <-
median(purchase_data$PurchaseAmount)
sd_purchase <- sd(purchase_data$PurchaseAmount)
q1_purchase <- quantile(purchase_data$PurchaseAmount,
probs = 0.25)
q3_purchase <- quantile(purchase_data$PurchaseAmount,
probs = 0.75)

cat("Mean Purchase Amount:", mean_purchase, "\n")
cat("Median Purchase Amount:", median_purchase, "\n")
cat("Standard Deviation of Purchase Amounts:",
sd_purchase, "\n")
cat("1st Quartile of Purchase Amounts:", q1_purchase, "\n")
cat("3rd Quartile of Purchase Amounts:", q3_purchase, "\n")

# Load ggplot2 library
library(ggplot2)
```

```
# Create histogram of PurchaseAmount
ggplot(purchase_data, aes(x = PurchaseAmount)) +
  geom_histogram(binwidth = 50, fill = "blue", color = "black") +
  labs(title = "Purchase Amount Distribution", x = "Amount", y = "Frequency")
```