```
[1] "Loaded dataset:"
[1] "Customer.ID"  "Gender"       "Age"          "Annual.Income..k$."
[5] "Spending.Score..1.100."
[1] "Dimensions: 200 5"
[1] "Missing values:"
[1] "Customer.ID"  "Gender"       "Age"          "Annual.Income..k$."
[5] "Spending.Score..1.100."
[1] "Data types:"
$Customer.ID
character
$Gender
character
$Age
integer
$Annual.Income..k$.
integer
$Spending.Score..1.100.
integer
attr(,"class")
[1] "spec_tbl_df" "tbl"         "tibble"
[1] "Summary statistics:"
$Customer.ID
   Length     Class      Mode character character character character
      200 character character character character character character
$Gender
   Length     Class      Mode character character character character
      200 character character character character character character
$Age
   Length     Class      Mode character character character character
      200 character character character character character character
$Annual.Income..k$.
   Length     Class      Mode character character character character
      200 character character character character character character
$Spending.Score..1.100.
   Length     Class      Mode character character character character
      200 character character character character character character
[1] "Gender distribution:"
Gender
  Female   Male
0.44000 0.56000
[1] "Age distribution:"
   Min 1st Qu.  Median    Mean 3rd Qu.    Max
  18.0   28.0   36.0   38.85   49.0   70.0
[1] "Annual Income (k$) distribution:"
   Min 1st Qu.  Median    Mean 3rd Qu.    Max
  15.0   41.5   62.0   60.56   78.0  137.0
[1] "Spending Score (1-100) distribution:"
   Min 1st Qu.  Median    Mean 3rd Qu.    Max
   1.0   34.8   50.0   50.20   73.0   99.0
[1] "Correlation matrix:"
                        Age Annual.Income..k$. Spending.Score..1.100.
Age                    1.00              0.01                   -0.33
Annual.Income..k$.     0.01              1.00                    0.01
Spending.Score..1.100. -0.33              0.01                    1.00
[1] "Saving plots..."
[1] "Plots saved as:"
[1] "age_distribution.pdf"
[1] "income_distribution.pdf"
[1] "spending_score_distribution.pdf"
[1] "gender_distribution.pdf"
[1] "correlation_matrix.pdf"
[1] "Analysis complete!"
```