Insights Report on customer behavior by cluster

The dataset contains information on 200 customers, with the following columns:

- 1. **CustomerID** Unique identifier for each customer
- 2. **Gender** Male or Female
- 3. **Age** Age of the customer
- 4. **Annual Income (k\$)** Annual income in thousands
- 5. Spending Score (1–100) A score assigned by the mall based on customer spending behavior

Here's the Insights Report on Customer Behavior by Cluster (based on Annual Income and Spending Score):

Cluster 0 – Middle Income, Average Spenders

- Customer Count: 81
- **Profile:** Mostly females, average age ~43.
- Annual Income: Mid-range (avg \$55k).
- **Spending:** Moderate (avg score ~50).
- Behavior Insight: Balanced income and spending habits, likely steady but not extravagant shoppers.

Cluster 1 – High Income, Low Spenders

- Customer Count: 35
- **Profile:** Mostly males, average age ~41.
- Annual Income: High (avg \$88k).
- **Spending:** Very low (avg score \sim 17).
- Behavior Insight: Wealthy but cautious spenders; may be more savings-focused or selective buyers.

Cluster 2 – Low Income, Low Spenders

- Customer Count: 23
- **Profile:** Mostly females, average age ~45.
- Annual Income: Low (avg \$26k).
- **Spending:** Low (avg score ~21).
- Behavior Insight: Budget-conscious customers with limited purchasing power; likely seek discounts.

Cluster 3 – Low Income, High Spenders

- Customer Count: 22
- **Profile:** Mostly females, young (avg age ~25).
- Annual Income: Low (avg \$26k).
- **Spending:** High (avg score ~79).

• Behavior Insight: Young, aspirational spenders willing to splurge despite lower incomes; brand-driven.

Cluster 4 – High Income, High Spenders

- Customer Count: 39
- **Profile:** Mostly females, average age ~33.
- Annual Income: High (avg \$87k).
- **Spending:** Very high (avg score ~82).
- Behavior Insight: Affluent and enthusiastic shoppers; prime targets for luxury and premium brands.