OUTPUT

Customer Segmentation:

	Customer ID	Spending	Segment
0	1001	High	Spenders
1	1002	Low	Spenders
2	1003	Medium	Spenders
3	1004	High	Spenders
4	1005	Medium	Spenders
5	1006	High	Spenders
6	1007	High	Spenders
7	1008	Low	Spenders
8	1009	Low	Spenders
9	1010	Low	Spenders
10	1011	High	Spenders
11	1012	Medium	Spenders
12	1013	Medium	Spenders
13	1014	Low	Spenders
14	1015	Medium	Spenders

Average Age per Spending Segment: Spending Segment

Low Spenders 39.0 Medium Spenders 45.4 High Spenders 40.0 Name: Age, dtype: float64

```
Data Quality Checks:
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 15 entries, 0 to 14
Data columns (total 5 columns):
                      Non-Null Count Dtype
    Column
___
                       _____
   Customer ID
                      15 non-null
                                      int64
 0
                                      int64
 1
   Age
                      15 non-null
 2
    Gender
                      15 non-null
                                      object
    Total Spending
                      15 non-null
                                      float64
 3
    Spending Segment 15 non-null
                                      category
dtypes: category(1), float64(1), int64(2), object(1)
memory usage: 759.0+ bytes
Missing Values:
Customer ID
                   0
Age
Gender
                   0
Total Spending
                   0
Spending Segment
                   0
dtype: int64
Gender Distribution:
Gender
Female
          8
Male
          7
Name: count, dtype: int64
Gender Distribution:
Gender
Female
         7
Male
Name: count, dtype: int64
Spending Segment Statistics:
                            median
                                            std
                     mean
Spending Segment
Low Spenders
                 1786.444 2246.54
                                    1172.685912
Medium Spenders
                 5961.866
                           5695.37 1645.871845
High Spenders
                 8937.852
                                     361.603548
                           9175.56
```