



```
region tenure age marital ... retire gender reside custcat
0      2     13  44      1 ...    0.0      0      2      1
1      3     11  33      1 ...    0.0      0      6      4
2      3     68  52      1 ...    0.0      1      2      3
3      2     33  33      0 ...    0.0      1      1      1
4      2     23  30      1 ...    0.0      0      4      3
```

[5 rows x 12 columns]

Missing values in each column:

```
region      0
tenure      0
age         0
marital     0
address     0
income      0
ed          0
employ      0
retire      0
gender      0
reside      0
custcat     0
dtype: int64
```

Classification Report (KNN):

	precision	recall	f1-score	support
1	0.45	0.49	0.47	72
2	0.31	0.36	0.33	56
3	0.30	0.33	0.32	69
4	0.27	0.17	0.21	53
accuracy			0.35	250
macro avg	0.34	0.34	0.33	250
weighted avg	0.34	0.35	0.34	250

Accuracy score (KNN): 0.35

F1 Score (KNN): 0.33

