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1 C:\Users\kavan\PyCharmMiscProject\.venv\Scripts\python.exe "C:\Users\kavan\
  PyCharmMiscProject\AIML INTERNSHIP\task2.py"
2 Dataset loaded successfully!
3
4 Original Dataset Shape: (20, 8)
5
6 Missing Values BEFORE cleaning:
7 Id      0
8 LotArea  0
9 LotFrontage  7
10 OverallQual  0
11 YearBuilt  0
12 MasVnrType 10
13 SalePrice  0
14 PoolQC    20
15 dtype: int64
16 C:\Users\kavan\PyCharmMiscProject\AIML INTERNSHIP\task2.py:25: FutureWarning: A
    value is trying to be set on a copy of a DataFrame or Series through chained
    assignment using an inplace method.
17 The behavior will change in pandas 3.0. This inplace method will never work because
    the intermediate object on which we are setting values always behaves as a copy.
18
19 For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method
    ({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform
    the operation inplace on the original object.
20
21
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22 df[col].fillna(median_value, inplace=True)
23 C:\Users\kavan\PyCharmMiscProject\AIML INTERNSHIP\task2.py:32: FutureWarning: A
    value is trying to be set on a copy of a DataFrame or Series through chained
    assignment using an inplace method.
24 The behavior will change in pandas 3.0. This inplace method will never work because
    the intermediate object on which we are setting values always behaves as a copy.
25
26 For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method
    ({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform
    the operation inplace on the original object.
27
28
29 df[col].fillna(mode_value, inplace=True)
30
31 Dropped column: PoolQC (too many missing values)
32
33 Missing Values AFTER cleaning:
34 Id 0
35 LotArea 0
36 LotFrontage 0
37 OverallQual 0
38 YearBuilt 0
39 MasVnrType 0
40 SalePrice 0
41 dtype: int64
42
43 Dataset Shape Comparison:
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44 Before Cleaning: (20, 8)
45 After Cleaning: (20, 7)
46
47 Cleaned dataset saved as 'house_prices_cleaned.csv'
48
49 Task 2 Completed Successfully!
50
51 Process finished with exit code 0
52
```