```
Number of rows: 10,000
Number of columns: 14

Number of duplicate rows: 0

Missing values per column:
Customer ID    0
Gender         0
Age            0
City           0
Property Type  0
Price          0
Transaction Date    0
House Size     0
Publication Date    0
Publication Platform    0
Property Condition    0
Publication Type    0
Transaction Type    0
Location       0
dtype: int64
```

```
df.head()
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo

```
df.tail()
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
9995	9996	Male	50	Tokyo	Apartment	1,000,000	2023-12-26	1,000	2023-12-27	Facebook	Fair	Sale	Purchase	Tokyo
9996	9997	Male	50	Tokyo	Apartment	1,000,000	2023-12-27	1,000	2023-12-28	Facebook	Fair	Sale	Purchase	Tokyo
9997	9998	Male	50	Tokyo	Apartment	1,000,000	2023-12-28	1,000	2023-12-29	Facebook	Fair	Sale	Purchase	Tokyo
9998	9999	Male	50	Tokyo	Apartment	1,000,000	2023-12-29	1,000	2023-12-30	Facebook	Fair	Sale	Purchase	Tokyo
9999	10000	Male	50	Tokyo	Apartment	1,000,000	2023-12-30	1,000	2023-12-31	Facebook	Fair	Sale	Purchase	Tokyo

```
df.info()
```

```
<class pandas.core.frame.DataFrame>
RangeIndex: 10000 entries, 0 to 9999
Data columns (total 14):
 #   Customer ID    10000 non-null  int64
 #   Gender         10000 non-null  object
 #   Age            10000 non-null  int64
 #   City           10000 non-null  object
 #   Property Type  10000 non-null  object
 #   Price          10000 non-null  int64
 #   Transaction Date    10000 non-null  datetime64[ns]
 #   House Size     10000 non-null  int64
 #   Publication Date    10000 non-null  datetime64[ns]
 #   Publication Platform    10000 non-null  object
 #   Property Condition    10000 non-null  object
 #   Publication Type    10000 non-null  object
 #   Transaction Type    10000 non-null  object
 #   Location       10000 non-null  object
dtype: int64
memory usage: 1.1 MB
```

```
df.describe()
```

	Customer ID	Age	Price	Transaction Date	House Size	Publication Date
count	10000.000000	10000.000000	10000.000000	10000	10000.000000	10000
mean	5000.500000	50.000000	1000000.000000	2023-07-01 00:00:00	1000.000000	2023-07-02 00:00:00
min	1.000000	50.000000	1000000.000000	2023-01-01 00:00:00	1000.000000	2023-01-02 00:00:00
25%	2500.750000	50.000000	1000000.000000	2023-04-01 00:00:00	1000.000000	2023-04-02 00:00:00
50%	5000.500000	50.000000	1000000.000000	2023-07-01 00:00:00	1000.000000	2023-07-02 00:00:00
75%	7500.250000	50.000000	1000000.000000	2023-10-01 00:00:00	1000.000000	2023-10-02 00:00:00
max	10000.000000	69.000000	1000000.000000	2023-12-31 00:00:00	1000.000000	2023-12-31 00:00:00
std	2886.895680	3.162278	0.000000	NaT	0.000000	NaT

```
df.columns
```

```
Index(['Customer ID', 'Gender', 'Age', 'City', 'Property Type', 'Price',
       'Transaction Date', 'House Size', 'Publication Date',
       'Publication Platform', 'Property Condition', 'Publication Type',
       'Transaction Type', 'Location'],
      dtype="
```

```
df['Gender'].value_counts()
```

```
Gender
Male    10000
Name: count, dtype: int64
```

```
df['City'].value_counts()
```

```
City
Tokyo    9999
Osaka       1
Name: count, dtype: int64
```

```
df['Property Type'].value_counts()
```

```
Property Type
Apartment    10000
Name: count, dtype: int64
```

```
df['Price'].value_counts()
```

```
Price
1000000    10000
Name: count, dtype: int64
```

```
df['Transaction Date'].value_counts()
```

```
Transaction Date
2023-01-01 00:00:00    1000
2023-01-02 00:00:00    1000
2023-01-03 00:00:00    1000
2023-01-04 00:00:00    1000
2023-01-05 00:00:00    1000
2023-01-06 00:00:00    1000
2023-01-07 00:00:00    1000
2023-01-08 00:00:00    1000
2023-01-09 00:00:00    1000
2023-01-10 00:00:00    1000
Name: count, dtype: int64
```

```
df['House Size'].value_counts()
```

```
House Size
1000    10000
Name: count, dtype: int64
```

```
df['Publication Platform'].value_counts()
```

```
Publication Platform
Facebook    10000
Name: count, dtype: int64
```

```
df['Property Condition'].value_counts()
```

```
Property Condition
Fair    10000
Name: count, dtype: int64
```

```
df['Publication Type'].value_counts()
```

```
Publication Type
Sale    10000
Name: count, dtype: int64
```

```
df['Transaction Type'].value_counts()
```

```
Transaction Type
Purchase    10000
Name: count, dtype: int64
```

```
df['Location'].value_counts()
```

```
Location
Tokyo    9999
Osaka       1
Name: count, dtype: int64
```

```
df['Customer ID'].value_counts()
```

```
Customer ID
1    1
2    1
3    1
4    1
5    1
6    1
7    1
8    1
9    1
10   1
Name: count, dtype: int64
```

```
df['Age'].value_counts()
```

```
Age
50    10000
Name: count, dtype: int64
```

```
df[df['Gender'] == 'Male']
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Price'] > 1000000]
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Transaction Date'] > '2023-01-01']
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo
5	6	Male	50	Tokyo	Apartment	1,000,000	2023-01-06	1,000	2023-01-07	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['City'] == 'Tokyo']
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo
5	6	Male	50	Tokyo	Apartment	1,000,000	2023-01-06	1,000	2023-01-07	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Property Type'] == 'Apartment']
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Property Condition'] == 'Fair']
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Publication Type'] == 'Sale']
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Transaction Type'] == 'Purchase']
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Location'] == 'Tokyo']
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo
5	6	Male	50	Tokyo	Apartment	1,000,000	2023-01-06	1,000	2023-01-07	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Customer ID'] == 1]
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Age'] == 50]
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
5	6	Male	50	Tokyo	Apartment	1,000,000	2023-01-06	1,000	2023-01-07	Facebook	Fair	Sale	Purchase	Tokyo
9	10	Male	50	Tokyo	Apartment	1,000,000	2023-01-10	1,000	2023-01-11	Facebook	Fair	Sale	Purchase	Tokyo
9995	9996	Male	50	Tokyo	Apartment	1,000,000	2023-12-26	1,000	2023-12-27	Facebook	Fair	Sale	Purchase	Tokyo
9996	9997	Male	50	Tokyo	Apartment	1,000,000	2023-12-27	1,000	2023-12-28	Facebook	Fair	Sale	Purchase	Tokyo
9997	9998	Male	50	Tokyo	Apartment	1,000,000	2023-12-28	1,000	2023-12-29	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Price'] == 1000000]
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['House Size'] == 1000]
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Publication Platform'] == 'Facebook']
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Publication Date'] > '2023-01-01']
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo
5	6	Male	50	Tokyo	Apartment	1,000,000	2023-01-06	1,000	2023-01-07	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Customer ID'] > 1]
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo
5	6	Male	50	Tokyo	Apartment	1,000,000	2023-01-06	1,000	2023-01-07	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Age'] > 50]
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo
5	6	Male	50	Tokyo	Apartment	1,000,000	2023-01-06	1,000	2023-01-07	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['City'] == 'Osaka']
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka

```
df[df['Property Type'] == 'Apartment']
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Property Condition'] == 'Fair']
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Publication Type'] == 'Sale']
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Transaction Type'] == 'Purchase']
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Location'] == 'Osaka']
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka

```
df[df['Customer ID'] == 2]
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka

```
df[df['Age'] == 69]
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka

```
df[df['Price'] > 1000000]
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
0	1	Male	56	Tokyo	Apartment	1,000,000	2023-01-01	1,000	2023-01-02	Facebook	Fair	Sale	Purchase	Tokyo
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo

```
df[df['Transaction Date'] > '2023-01-01']
```

	Customer ID	Gender	Age	City	Property Type	Price	Transaction Date	House Size	Publication Date	Publication Platform	Property Condition	Publication Type	Transaction Type	Location
1	2	Male	69	Osaka	Apartment	1,000,000	2023-01-02	1,000	2023-01-03	Facebook	Fair	Sale	Purchase	Osaka
2	3	Male	46	Tokyo	Apartment	1,000,000	2023-01-03	1,000	2023-01-04	Facebook	Fair	Sale	Purchase	Tokyo
3	4	Male	32	Tokyo	Apartment	1,000,000	2023-01-04	1,000	2023-01-05	Facebook	Fair	Sale	Purchase	Tokyo
4	5	Male	60	Tokyo	Apartment	1,000,000	2023-01-05	1,000	2023-01-06	Facebook	Fair	Sale	Purchase	Tokyo
5	6	Male	50	Tokyo	Apartment	1,000,000