

```
In [2]: import numpy as np  
import pandas as pd
```

```
In [3]: pd.__version__
```

```
Out[3]: '2.2.2'
```

```
In [4]: store = pd.read_csv(r'C:\Users\saniy\Downloads\Sample - Superstore_Orders.csv')
```

```
In [5]: store
```

Out[5]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID
0	Office Supplies	Houston	United States	Darren Powers	Message Book	03-01-2020	US-2020-103800
1	Office Supplies	Naperville	United States	Phillina Ober	GBC	04-01-2020	US-2020-112326
2	Office Supplies	Naperville	United States	Phillina Ober	Avery	04-01-2020	US-2020-112326
3	Office Supplies	Naperville	United States	Phillina Ober	SAFCO	04-01-2020	US-2020-112326
4	Office Supplies	Philadelphia	United States	Mick Brown	Avery	05-01-2020	US-2020-141817
...							
10189	Office Supplies	New York City	United States	Patrick O'Donnell	Wilson Jones	30-12-2023	US-2023-143259
10190	Office Supplies	Fairfield	United States	Erica Bern	GBC	30-12-2023	US-2023-115427
10191	Office Supplies	Loveland	United States	Jill Matthias	Other	30-12-2023	US-2023-156720
10192	Technology	New York City	United States	Patrick O'Donnell	Other	30-12-2023	US-2023-143259
10193	Office Supplies	Charlottetown	Canada	Harry Olson	Wilson Jones	30-12-2023	CA-2023-143500

10194 rows × 19 columns

```
In [6]: id(store) #add Location
```

```
Out[6]: 2998869264288
```

```
In [7]: len(store)
```

```
Out[7]: 10194
```

```
In [8]: store.columns
```

```
Out[8]: Index(['Category', 'City', 'Country/Region', 'Customer Name', 'Manufacturer',
   'Order Date', 'Order ID', 'Postal Code', 'Product Name', 'Region',
   'Segment', 'Ship Date', 'Ship Mode', 'State/Province', 'Sub-Category',
   'Discount', 'Profit', 'Quantity', 'Sales'],
  dtype='object')
```

```
In [9]: store['Ship Mode']
```

```
Out[9]: 0      Standard Class
1      Standard Class
2      Standard Class
3      Standard Class
4      Standard Class
...
10189  Standard Class
10190  Standard Class
10191  Standard Class
10192  Standard Class
10193  Standard Class
Name: Ship Mode, Length: 10194, dtype: object
```

```
In [10]: store[['Category','City']]
```

```
Out[10]:
```

	Category	City
0	Office Supplies	Houston
1	Office Supplies	Naperville
2	Office Supplies	Naperville
3	Office Supplies	Naperville
4	Office Supplies	Philadelphia
...
10189	Office Supplies	New York City
10190	Office Supplies	Fairfield
10191	Office Supplies	Loveland
10192	Technology	New York City
10193	Office Supplies	Charlottetown

10194 rows × 2 columns

```
In [11]: len(store.columns)
```

```
Out[11]: 19
```

```
In [12]: store.shape
```

```
Out[12]: (10194, 19)
```

```
In [25]: store_cat = store[['Category', 'City', 'Country/Region', 'Customer Name', 'Manufacture Name', 'Order Date', 'Order ID', 'Postal Code', 'Product Name', 'Region', 'Segment', 'Ship Date', 'Ship Mode', 'State/Province', 'Sub-Category']]  
store_num = store[['Discount', 'Profit', 'Quantity', 'Sales']]
```

```
In [26]: print(len(store.columns))  
print(len(store_cat.columns))  
print(len(store_num.columns))
```

19
15
4

```
In [27]: store_cat.head(1)
```

Out[27]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code
0	Office Supplies	Houston	United States	Darren Powers	Message Book	03-01-2020	US-2020-103800	77095 VF



In [28]: `store_cat.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10194 entries, 0 to 10193
Data columns (total 15 columns):
 #   Column            Non-Null Count  Dtype  
 ---  -- 
 0   Category          10194 non-null   object 
 1   City               10194 non-null   object 
 2   Country/Region    10194 non-null   object 
 3   Customer Name     10194 non-null   object 
 4   Manufacturer      10194 non-null   object 
 5   Order Date        10194 non-null   object 
 6   Order ID          10194 non-null   object 
 7   Postal Code       10194 non-null   object 
 8   Product Name      10194 non-null   object 
 9   Region             10194 non-null   object 
 10  Segment            10194 non-null   object 
 11  Ship Date         10194 non-null   object 
 12  Ship Mode          10194 non-null   object 
 13  State/Province    10194 non-null   object 
 14  Sub-Category      10194 non-null   object 
dtypes: object(15)
memory usage: 1.2+ MB
```

In [29]: `store_num.head(1)`

Out[29]:

	Discount	Profit	Quantity	Sales
0	0.2	5.5512	2	16.448

In [30]: `store_num.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10194 entries, 0 to 10193
Data columns (total 4 columns):
 #   Column      Non-Null Count  Dtype    
 ---  -- 
 0   Discount    10194 non-null   float64 
 1   Profit      10194 non-null   float64 
 2   Quantity    10194 non-null   int64    
 3   Sales       10194 non-null   float64 
dtypes: float64(3), int64(1)
memory usage: 318.7 KB
```

```
In [31]: store_cat.describe()
```

Out[31]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code
count	10194	10194	10194	10194	10194	10194	10194	10194
unique	3	542	2	800	183	1242	5111	654
top	Office Supplies	New York City	United States	William Brown	Other	05-09-2022	US-2023-100111	10035
freq	6128	915	9994	41	1940	38	14	263



```
In [32]: store_num.describe()
```

Out[32]:

	Discount	Profit	Quantity	Sales
count	10194.000000	10194.000000	10194.000000	10194.000000
mean	0.155385	28.673417	3.791838	228.225854
std	0.206249	232.465115	2.228317	619.906839
min	0.000000	-6599.978000	1.000000	0.444000
25%	0.000000	1.760800	2.000000	17.220000
50%	0.200000	8.690000	3.000000	53.910000
75%	0.200000	29.297925	5.000000	209.500000
max	0.800000	8399.976000	14.000000	22638.480000

```
In [33]: store.columns
```

```
Out[33]: Index(['Category', 'City', 'Country/Region', 'Customer Name', 'Manufacturer',  
   'Order Date', 'Order ID', 'Postal Code', 'Product Name', 'Region',  
   'Segment', 'Ship Date', 'Ship Mode', 'State/Province', 'Sub-Category',  
   'Discount', 'Profit', 'Quantity', 'Sales'],  
  dtype='object')
```

```
In [34]: store.describe()
```

Out[34]:

	Discount	Profit	Quantity	Sales
count	10194.000000	10194.000000	10194.000000	10194.000000
mean	0.155385	28.673417	3.791838	228.225854
std	0.206249	232.465115	2.228317	619.906839
min	0.000000	-6599.978000	1.000000	0.444000
25%	0.000000	1.760800	2.000000	17.220000
50%	0.200000	8.690000	3.000000	53.910000
75%	0.200000	29.297925	5.000000	209.500000
max	0.800000	8399.976000	14.000000	22638.480000

In [35]:

```
store.describe()
```

Out[35]:

	Discount	Profit	Quantity	Sales
count	10194.000000	10194.000000	10194.000000	10194.000000
mean	0.155385	28.673417	3.791838	228.225854
std	0.206249	232.465115	2.228317	619.906839
min	0.000000	-6599.978000	1.000000	0.444000
25%	0.000000	1.760800	2.000000	17.220000
50%	0.200000	8.690000	3.000000	53.910000
75%	0.200000	29.297925	5.000000	209.500000
max	0.800000	8399.976000	14.000000	22638.480000

In [36]:

```
store.describe()
```

Out[36]:

	Discount	Profit	Quantity	Sales
count	10194.000000	10194.000000	10194.000000	10194.000000
mean	0.155385	28.673417	3.791838	228.225854
std	0.206249	232.465115	2.228317	619.906839
min	0.000000	-6599.978000	1.000000	0.444000
25%	0.000000	1.760800	2.000000	17.220000
50%	0.200000	8.690000	3.000000	53.910000
75%	0.200000	29.297925	5.000000	209.500000
max	0.800000	8399.976000	14.000000	22638.480000

```
In [ ]:
```

```
In [13]: type(store)
```

```
Out[13]: pandas.core.frame.DataFrame
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [14]: store.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10194 entries, 0 to 10193
Data columns (total 19 columns):
 #   Column            Non-Null Count  Dtype  
--- 
 0   Category          10194 non-null   object  
 1   City               10194 non-null   object  
 2   Country/Region    10194 non-null   object  
 3   Customer Name     10194 non-null   object  
 4   Manufacturer      10194 non-null   object  
 5   Order Date        10194 non-null   object  
 6   Order ID          10194 non-null   object  
 7   Postal Code       10194 non-null   object  
 8   Product Name      10194 non-null   object  
 9   Region             10194 non-null   object  
 10  Segment            10194 non-null   object  
 11  Ship Date         10194 non-null   object  
 12  Ship Mode         10194 non-null   object  
 13  State/Province    10194 non-null   object  
 14  Sub-Category      10194 non-null   object  
 15  Discount           10194 non-null   float64 
 16  Profit             10194 non-null   float64 
 17  Quantity           10194 non-null   int64  
 18  Sales              10194 non-null   float64 
dtypes: float64(3), int64(1), object(15)
memory usage: 1.5+ MB
```

```
In [15]: store
```

Out[15]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID
0	Office Supplies	Houston	United States	Darren Powers	Message Book	03-01-2020	US-2020-103800
1	Office Supplies	Naperville	United States	Phillina Ober	GBC	04-01-2020	US-2020-112326
2	Office Supplies	Naperville	United States	Phillina Ober	Avery	04-01-2020	US-2020-112326
3	Office Supplies	Naperville	United States	Phillina Ober	SAFCO	04-01-2020	US-2020-112326
4	Office Supplies	Philadelphia	United States	Mick Brown	Avery	05-01-2020	US-2020-141817
...							
10189	Office Supplies	New York City	United States	Patrick O'Donnell	Wilson Jones	30-12-2023	US-2023-143259
10190	Office Supplies	Fairfield	United States	Erica Bern	GBC	30-12-2023	US-2023-115427
10191	Office Supplies	Loveland	United States	Jill Matthias	Other	30-12-2023	US-2023-156720
10192	Technology	New York City	United States	Patrick O'Donnell	Other	30-12-2023	US-2023-143259
10193	Office Supplies	Charlottetown	Canada	Harry Olson	Wilson Jones	30-12-2023	CA-2023-143500

10194 rows × 19 columns

```
In [16]: store.dtypes
```

```
Out[16]: Category          object
          City            object
          Country/Region   object
          Customer Name   object
          Manufacturer    object
          Order Date      object
          Order ID        object
          Postal Code     object
          Product Name    object
          Region          object
          Segment          object
          Ship Date       object
          Ship Mode       object
          State/Province   object
          Sub-Category    object
          Discount         float64
          Profit          float64
          Quantity         int64
          Sales           float64
          dtype: object
```

```
In [17]: store.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10194 entries, 0 to 10193
Data columns (total 19 columns):
 #   Column          Non-Null Count  Dtype  
---  --  
 0   Category        10194 non-null   object 
 1   City            10194 non-null   object 
 2   Country/Region  10194 non-null   object 
 3   Customer Name  10194 non-null   object 
 4   Manufacturer   10194 non-null   object 
 5   Order Date     10194 non-null   object 
 6   Order ID       10194 non-null   object 
 7   Postal Code    10194 non-null   object 
 8   Product Name   10194 non-null   object 
 9   Region          10194 non-null   object 
 10  Segment         10194 non-null   object 
 11  Ship Date      10194 non-null   object 
 12  Ship Mode      10194 non-null   object 
 13  State/Province 10194 non-null   object 
 14  Sub-Category   10194 non-null   object 
 15  Discount        10194 non-null   float64
 16  Profit          10194 non-null   float64
 17  Quantity        10194 non-null   int64  
 18  Sales           10194 non-null   float64
dtypes: float64(3), int64(1), object(15)
memory usage: 1.5+ MB
```

```
In [18]: type(store)
```

```
Out[18]: pandas.core.frame.DataFrame
```

```
In [19]: store.isnull()
```

```
Out[19]:
```

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	F
0	False	False		False	False	False	False	False	False
1	False	False		False	False	False	False	False	False
2	False	False		False	False	False	False	False	False
3	False	False		False	False	False	False	False	False
4	False	False		False	False	False	False	False	False
...
10189	False	False		False	False	False	False	False	False
10190	False	False		False	False	False	False	False	False
10191	False	False		False	False	False	False	False	False
10192	False	False		False	False	False	False	False	False
10193	False	False		False	False	False	False	False	False

10194 rows × 19 columns



```
In [20]: store.isnull().sum()
```

```
Out[20]: Category      0  
City          0  
Country/Region  0  
Customer Name   0  
Manufacturer    0  
Order Date     0  
Order ID       0  
Postal Code     0  
Product Name    0  
Region          0  
Segment         0  
Ship Date       0  
Ship Mode        0  
State/Province   0  
Sub-Category    0  
Discount         0  
Profit           0  
Quantity         0  
Sales            0  
dtype: int64
```

```
In [21]: store_1 = pd.read_csv(r'C:\Users\saniy\Downloads\Sample - Superstore_Orders.csv')
```

```
In [16]: store_1.isnull()
```

Out[16]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	F
0	False	False		False	False	False	False	False	False
1	False	False		False	False	False	False	False	False
2	False	False		False	False	False	False	False	False
3	False	False		False	False	False	False	False	False
4	False	False		False	False	False	False	False	False
...
10189	False	False		False	False	False	False	False	False
10190	False	False		False	False	False	False	False	False
10191	False	False		False	False	False	False	False	False
10192	False	False		False	False	False	False	False	False
10193	False	False		False	False	False	False	False	False

10194 rows × 19 columns



```
In [22]: store_1.isnull().sum()
```

```
Out[22]: Category      0  
City          0  
Country/Region  0  
Customer Name  0  
Manufacturer   0  
Order Date    0  
Order ID      0  
Postal Code   0  
Product Name  0  
Region        0  
Segment       0  
Ship Date    0  
Ship Mode    0  
State/Province 0  
Sub-Category  0  
Discount     0  
Profit       0  
Quantity     0  
Sales        0  
dtype: int64
```

```
In [23]: store_1.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10194 entries, 0 to 10193
Data columns (total 19 columns):
 #   Column            Non-Null Count  Dtype  
--- 
 0   Category          10194 non-null   object  
 1   City               10194 non-null   object  
 2   Country/Region    10194 non-null   object  
 3   Customer Name     10194 non-null   object  
 4   Manufacturer      10194 non-null   object  
 5   Order Date        10194 non-null   object  
 6   Order ID          10194 non-null   object  
 7   Postal Code       10194 non-null   object  
 8   Product Name      10194 non-null   object  
 9   Region             10194 non-null   object  
 10  Segment            10194 non-null   object  
 11  Ship Date         10194 non-null   object  
 12  Ship Mode         10194 non-null   object  
 13  State/Province    10194 non-null   object  
 14  Sub-Category      10194 non-null   object  
 15  Discount           10194 non-null   float64 
 16  Profit             10194 non-null   float64 
 17  Quantity           10194 non-null   int64   
 18  Sales              10194 non-null   float64 
dtypes: float64(3), int64(1), object(15)
memory usage: 1.5+ MB
```

In [24]: `store.isna()`

Out[24]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal F Code
0	False	False		False	False	False	False	False
1	False	False		False	False	False	False	False
2	False	False		False	False	False	False	False
3	False	False		False	False	False	False	False
4	False	False		False	False	False	False	False
...
10189	False	False		False	False	False	False	False
10190	False	False		False	False	False	False	False
10191	False	False		False	False	False	False	False
10192	False	False		False	False	False	False	False
10193	False	False		False	False	False	False	False

10194 rows × 19 columns

```
In [19]: store.columns
```

```
Out[19]: Index(['Category', 'City', 'Country/Region', 'Customer Name', 'Manufacturer',
       'Order Date', 'Order ID', 'Postal Code', 'Product Name', 'Region',
       'Segment', 'Ship Date', 'Ship Mode', 'State/Province', 'Sub-Category',
       'Discount', 'Profit', 'Quantity', 'Sales'],
      dtype='object')
```

```
In [20]: store.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10194 entries, 0 to 10193
Data columns (total 19 columns):
 #   Column            Non-Null Count  Dtype  
 ---  -- 
 0   Category          10194 non-null   object  
 1   City               10194 non-null   object  
 2   Country/Region    10194 non-null   object  
 3   Customer Name     10194 non-null   object  
 4   Manufacturer      10194 non-null   object  
 5   Order Date         10194 non-null   object  
 6   Order ID           10194 non-null   object  
 7   Postal Code        10194 non-null   object  
 8   Product Name       10194 non-null   object  
 9   Region              10194 non-null   object  
 10  Segment             10194 non-null   object  
 11  Ship Date          10194 non-null   object  
 12  Ship Mode           10194 non-null   object  
 13  State/Province     10194 non-null   object  
 14  Sub-Category       10194 non-null   object  
 15  Discount            10194 non-null   float64 
 16  Profit              10194 non-null   float64 
 17  Quantity            10194 non-null   int64   
 18  Sales                10194 non-null   float64 
dtypes: float64(3), int64(1), object(15)
memory usage: 1.5+ MB
```

```
In [21]: store['Category']
```

```
Out[21]: 0        Office Supplies
 1        Office Supplies
 2        Office Supplies
 3        Office Supplies
 4        Office Supplies
 ...
10189    Office Supplies
10190    Office Supplies
10191    Office Supplies
10192        Technology
10193    Office Supplies
Name: Category, Length: 10194, dtype: object
```

```
In [22]: store[['Customer Name', 'City']]
```

Out[22]:

	Customer Name	City
0	Darren Powers	Houston
1	Phillina Ober	Naperville
2	Phillina Ober	Naperville
3	Phillina Ober	Naperville
4	Mick Brown	Philadelphia
...
10189	Patrick O'Donnell	New York City
10190	Erica Bern	Fairfield
10191	Jill Matthias	Loveland
10192	Patrick O'Donnell	New York City
10193	Harry Olson	Charlottetown

10194 rows × 2 columns

In [23]:

```
store_categorical = store[['Category', 'City', 'Country/Region', 'Customer Name', 'Order Date', 'Order ID', 'Postal Code', 'Product Name', 'Region', 'Segment', 'Ship Date', 'Ship Mode', 'State/Province', 'Sub-Category']]
```

In [24]:

```
store_categorical
```

Out[24]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID
0	Office Supplies	Houston	United States	Darren Powers	Message Book	03-01-2020	US-2020-103800
1	Office Supplies	Naperville	United States	Phillina Ober	GBC	04-01-2020	US-2020-112326
2	Office Supplies	Naperville	United States	Phillina Ober	Avery	04-01-2020	US-2020-112326
3	Office Supplies	Naperville	United States	Phillina Ober	SAFCO	04-01-2020	US-2020-112326
4	Office Supplies	Philadelphia	United States	Mick Brown	Avery	05-01-2020	US-2020-141817
...							
10189	Office Supplies	New York City	United States	Patrick O'Donnell	Wilson Jones	30-12-2023	US-2023-143259
10190	Office Supplies	Fairfield	United States	Erica Bern	GBC	30-12-2023	US-2023-115427
10191	Office Supplies	Loveland	United States	Jill Matthias	Other	30-12-2023	US-2023-156720
10192	Technology	New York City	United States	Patrick O'Donnell	Other	30-12-2023	US-2023-143259
10193	Office Supplies	Charlottetown	Canada	Harry Olson	Wilson Jones	30-12-2023	CA-2023-143500

10194 rows × 15 columns

```
In [25]: store_categorical.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10194 entries, 0 to 10193
Data columns (total 15 columns):
 #   Column           Non-Null Count  Dtype  
--- 
 0   Category        10194 non-null   object  
 1   City             10194 non-null   object  
 2   Country/Region  10194 non-null   object  
 3   Customer Name   10194 non-null   object  
 4   Manufacturer    10194 non-null   object  
 5   Order Date      10194 non-null   object  
 6   Order ID        10194 non-null   object  
 7   Postal Code     10194 non-null   object  
 8   Product Name    10194 non-null   object  
 9   Region          10194 non-null   object  
 10  Segment         10194 non-null   object  
 11  Ship Date       10194 non-null   object  
 12  Ship Mode       10194 non-null   object  
 13  State/Province  10194 non-null   object  
 14  Sub-Category   10194 non-null   object  
dtypes: object(15)
memory usage: 1.2+ MB
```

```
In [26]: store_numerical = store[['Discount', 'Profit', 'Quantity', 'Sales']]
store_numerical
```

```
Out[26]:
```

	Discount	Profit	Quantity	Sales
0	0.2	5.5512	2	16.448
1	0.8	-5.4870	2	3.540
2	0.2	4.2717	3	11.784
3	0.2	-64.7748	3	272.736
4	0.2	4.8840	3	19.536
...
10189	0.2	19.7910	3	52.776
10190	0.2	6.4750	2	20.720
10191	0.2	-0.6048	3	3.024
10192	0.0	2.7279	7	90.930
10193	0.2	-0.6048	3	3.024

10194 rows × 4 columns

```
In [27]: store.head() # top 5 rows
```

Out[27]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code
0	Office Supplies	Houston	United States	Darren Powers	Message Book	03-01-2020	US-2020-103800	77095
1	Office Supplies	Naperville	United States	Phillina Ober	GBC	04-01-2020	US-2020-112326	60540
2	Office Supplies	Naperville	United States	Phillina Ober	Avery	04-01-2020	US-2020-112326	60540
3	Office Supplies	Naperville	United States	Phillina Ober	SAFCO	04-01-2020	US-2020-112326	60540
4	Office Supplies	Philadelphia	United States	Mick Brown	Avery	05-01-2020	US-2020-141817	19143

In [29]: `store.tail() # bottom 5 records`

Out[29]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID
10189	Office Supplies	New York City	United States	Patrick O'Donnell	Wilson Jones	30-12-2023	US-2023-143259
10190	Office Supplies	Fairfield	United States	Erica Bern	GBC	30-12-2023	US-2023-115427
10191	Office Supplies	Loveland	United States	Jill Matthias	Other	30-12-2023	US-2023-156720
10192	Technology	New York City	United States	Patrick O'Donnell	Other	30-12-2023	US-2023-143259
10193	Office Supplies	Charlottetown	Canada	Harry Olson	Wilson Jones	30-12-2023	CA-2023-143500



In [30]: `store[:]`

Out[30]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID
0	Office Supplies	Houston	United States	Darren Powers	Message Book	03-01-2020	US-2020-103800
1	Office Supplies	Naperville	United States	Phillina Ober	GBC	04-01-2020	US-2020-112326
2	Office Supplies	Naperville	United States	Phillina Ober	Avery	04-01-2020	US-2020-112326
3	Office Supplies	Naperville	United States	Phillina Ober	SAFCO	04-01-2020	US-2020-112326
4	Office Supplies	Philadelphia	United States	Mick Brown	Avery	05-01-2020	US-2020-141817
...							
10189	Office Supplies	New York City	United States	Patrick O'Donnell	Wilson Jones	30-12-2023	US-2023-143259
10190	Office Supplies	Fairfield	United States	Erica Bern	GBC	30-12-2023	US-2023-115427
10191	Office Supplies	Loveland	United States	Jill Matthias	Other	30-12-2023	US-2023-156720
10192	Technology	New York City	United States	Patrick O'Donnell	Other	30-12-2023	US-2023-143259
10193	Office Supplies	Charlottetown	Canada	Harry Olson	Wilson Jones	30-12-2023	CA-2023-143500

10194 rows × 19 columns

In [31]: `store[0:10]`

Out[31]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code
0	Office Supplies	Houston	United States	Darren Powers	Message Book	03-01-2020	US-2020-103800	77095
1	Office Supplies	Naperville	United States	Phillina Ober	GBC	04-01-2020	US-2020-112326	60540
2	Office Supplies	Naperville	United States	Phillina Ober	Avery	04-01-2020	US-2020-112326	60540
3	Office Supplies	Naperville	United States	Phillina Ober	SAFCO	04-01-2020	US-2020-112326	60540
4	Office Supplies	Philadelphia	United States	Mick Brown	Avery	05-01-2020	US-2020-141817	19143
5	Furniture	Henderson	United States	Maria Etezadi	Global	06-01-2020	US-2020-167199	42420
6	Office Supplies	Henderson	United States	Maria Etezadi	Rogers	06-01-2020	US-2020-167199	42420
7	Office Supplies	Athens	United States	Jack O'Briant	Dixon	06-01-2020	US-2020-106054	30605
8	Office Supplies	Henderson	United States	Maria Etezadi	Ibico	06-01-2020	US-2020-167199	42420

Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code
9	Office Supplies	Henderson	United States	Maria Etezadi	Alliance	06-01-2020	US-2020-167199

In [32]: `store[0:10:2]`

Out[32]:

Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code
0	Office Supplies	Houston	United States	Darren Powers	Message Book	03-01-2020	US-2020-103800
2	Office Supplies	Naperville	United States	Phillina Ober	Avery	04-01-2020	US-2020-112326
4	Office Supplies	Philadelphia	United States	Mick Brown	Avery	05-01-2020	US-2020-141817
6	Office Supplies	Henderson	United States	Maria Etezadi	Rogers	06-01-2020	US-2020-167199
8	Office Supplies	Henderson	United States	Maria Etezadi	Ibico	06-01-2020	US-2020-167199



In [33]: `store[::-1]`

Out[33]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID
10193	Office Supplies	Charlottetown	Canada	Harry Olson	Wilson Jones	30-12-2023	CA-2023-143500
10192	Technology	New York City	United States	Patrick O'Donnell	Other	30-12-2023	US-2023-143259
10191	Office Supplies	Loveland	United States	Jill Matthias	Other	30-12-2023	US-2023-156720
10190	Office Supplies	Fairfield	United States	Erica Bern	GBC	30-12-2023	US-2023-115427
10189	Office Supplies	New York City	United States	Patrick O'Donnell	Wilson Jones	30-12-2023	US-2023-143259
...
4	Office Supplies	Philadelphia	United States	Mick Brown	Avery	05-01-2020	US-2020-141817
3	Office Supplies	Naperville	United States	Phillina Ober	SAFCO	04-01-2020	US-2020-112326
2	Office Supplies	Naperville	United States	Phillina Ober	Avery	04-01-2020	US-2020-112326
1	Office Supplies	Naperville	United States	Phillina Ober	GBC	04-01-2020	US-2020-112326
0	Office Supplies	Houston	United States	Darren Powers	Message Book	03-01-2020	US-2020-103800

10194 rows × 19 columns

In [34]: `store[6:7]`

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code
6	Office Supplies	Henderson	United States	Maria Etezadi	Rogers	06-01-2020	US-2020-167199	42420

In []:

