

Pandas Workshop

```
In [1]: import pandas as pd
```

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

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

```
In [27]: store =pd.read_csv(r"C:\Users\NAVEEN\OneDrive\Desktop\fds&ai\21st - Pandas\Sample - Superstore_Orders.csv")
```

```
In [29]: store
```

Out[29]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment
0	Office Supplies	Houston	United States	Darren Powers	Message Book	03-01-2020	US-2020-103800	77015	Message Book, Wirebound, Four 5 1/2" X 4" Form...	Central	Consumer
1	Office Supplies	Naperville	United States	Phillina Ober	GBC	04-01-2020	US-2020-112326	60540	GBC Standard Plastic Binding Systems Combs	Central	Home Office
2	Office Supplies	Naperville	United States	Phillina Ober	Avery	04-01-2020	US-2020-112326	60540	Avery 508	Central	Home Office
3	Office Supplies	Naperville	United States	Phillina Ober	SAFCO	04-01-2020	US-2020-112326	60540	SAFCO Boltless Steel Shelving	Central	Home Office
4	Office Supplies	Philadelphia	United States	Mick Brown	Avery	05-01-2020	US-2020-141817	19143	Avery Hi-Liter EverBold Pen Style Fluorescent	East	Consumer
...
10189	Office Supplies	New York City	United States	Patrick O'Donnell	Wilson Jones	30-12-2023	US-2023-143259	10009	Wilson Jones Legal Size Ring Binders	East	Consumer
10190	Office Supplies	Fairfield	United States	Erica Bern	GBC	30-12-2023	US-2023-115427	94533	GBC Binding covers	West	Corporate

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment
10191	Office Supplies	Loveland	United States	Jill Matthias	Other	30-12-2023	US-2023-156720	80538	Bagged Rubber Bands	West	Consumer
10192	Technology	New York City	United States	Patrick O'Donnell	Other	30-12-2023	US-2023-143259	10009	Gear Head AU3700S Headset	East	Consumer
10193	Office Supplies	Charlottetown	Canada	Harry Olson	Wilson Jones	30-12-2023	CA-2023-143500	C0A	Wilson Jones Impact Binders	East	Consumer

10194 rows × 19 columns

```
In [31]: id(store)
```

```
Out[31]: 2399146097264
```

```
In [33]: len(store)
```

```
Out[33]: 10194
```

```
In [35]: store.columns
```

```
Out[35]: 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 [37]: len(store.columns)
```

```
Out[37]: 19
```

```
In [39]: store.shape
```

Out[39]: (10194, 19)

In [41]: store

Out[41]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment
0	Office Supplies	Houston	United States	Darren Powers	Message Book	03-01-2020	US-2020-103800	77015	Message Book, Wirebound, Four 5 1/2" X 4" Form...	Central	Consumer
1	Office Supplies	Naperville	United States	Phillina Ober	GBC	04-01-2020	US-2020-112326	60540	GBC Standard Plastic Binding Systems Combs	Central	Home Office
2	Office Supplies	Naperville	United States	Phillina Ober	Avery	04-01-2020	US-2020-112326	60540	Avery 508	Central	Home Office
3	Office Supplies	Naperville	United States	Phillina Ober	SAFCO	04-01-2020	US-2020-112326	60540	SAFCO Boltless Steel Shelving	Central	Home Office
4	Office Supplies	Philadelphia	United States	Mick Brown	Avery	05-01-2020	US-2020-141817	19143	Avery Hi-Liter EverBold Pen Style Fluorescent	East	Consumer
...
10189	Office Supplies	New York City	United States	Patrick O'Donnell	Wilson Jones	30-12-2023	US-2023-143259	10009	Wilson Jones Legal Size Ring Binders	East	Consumer
10190	Office Supplies	Fairfield	United States	Erica Bern	GBC	30-12-2023	US-2023-115427	94533	GBC Binding covers	West	Corporate

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment
10191	Office Supplies	Loveland	United States	Jill Matthias	Other	30-12-2023	US-2023-156720	80538	Bagged Rubber Bands	West	Consumer
10192	Technology	New York City	United States	Patrick O'Donnell	Other	30-12-2023	US-2023-143259	10009	Gear Head AU3700S Headset	East	Consumer
10193	Office Supplies	Charlottetown	Canada	Harry Olson	Wilson Jones	30-12-2023	CA-2023-143500	C0A	Wilson Jones Impact Binders	East	Consumer

10194 rows × 19 columns

In [43]: `store.dtypes`

```
Out[43]: 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 [45]: 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 [47]: type(store)
```

```
Out[47]: pandas.core.frame.DataFrame
```

```
In [49]: store.isnull()
```

Out[49]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment	Ship Date	St Mo
0	False	False		False	False	False	False	False	False	False	False	False	Fa
1	False	False		False	False	False	False	False	False	False	False	False	Fa
2	False	False		False	False	False	False	False	False	False	False	False	Fa
3	False	False		False	False	False	False	False	False	False	False	False	Fa
4	False	False		False	False	False	False	False	False	False	False	False	Fa
...
10189	False	False		False	False	False	False	False	False	False	False	False	Fa
10190	False	False		False	False	False	False	False	False	False	False	False	Fa
10191	False	False		False	False	False	False	False	False	False	False	False	Fa
10192	False	False		False	False	False	False	False	False	False	False	False	Fa
10193	False	False		False	False	False	False	False	False	False	False	False	Fa

10194 rows × 19 columns

In [51]: `store.isnull().sum()`

```
Out[51]: 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 [53]: store_1 =pd.read_csv(r"C:\Users\NAVEEN\OneDrive\Desktop\fds&ai\21st - Pandas\Sample - Superstore_Orders_1.csv")
```

```
In [55]: store_1.isnull()
```

Out[55]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment	Ship Date	St Mo
0	False	False		False	False	False	False	False	False	False	False	False	Fa
1	False	False		False	False	False	False	False	False	False	False	False	Fa
2	False	False		False	False	False	False	False	False	False	False	False	Fa
3	False	False		False	False	False	False	False	False	False	False	False	Fa
4	False	False		False	False	False	False	False	False	False	False	False	Fa
...
10189	False	False		False	False	False	False	False	False	False	False	False	Fa
10190	False	False		False	False	False	False	False	False	False	False	False	Fa
10191	False	False		False	False	False	False	False	False	False	False	False	Fa
10192	False	False		False	False	False	False	False	False	False	False	False	Fa
10193	False	False		False	False	False	False	False	False	False	False	False	Fa

10194 rows × 19 columns

In [57]: `store_1.isnull().sum()`

```
Out[57]: Category      1  
City          0  
Country/Region 1  
Customer Name 1  
Manufacturer   0  
Order Date    0  
Order ID      1  
Postal Code   0  
Product Name  0  
Region        1  
Segment       0  
Ship Date    0  
Ship Mode    0  
State/Province 0  
Sub-Category 1  
Discount     0  
Profit       0  
Quantity     1  
Sales        0  
dtype: int64
```

```
In [59]: 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          10193 non-null   object  
 1   City               10194 non-null   object  
 2   Country/Region    10193 non-null   object  
 3   Customer Name     10193 non-null   object  
 4   Manufacturer      10194 non-null   object  
 5   Order Date         10194 non-null   object  
 6   Order ID           10193 non-null   object  
 7   Postal Code        10194 non-null   object  
 8   Product Name       10194 non-null   object  
 9   Region              10193 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       10193 non-null   object  
 15  Discount            10194 non-null   float64 
 16  Profit              10194 non-null   float64 
 17  Quantity            10193 non-null   float64 
 18  Sales               10194 non-null   float64 
dtypes: float64(4), object(15)
memory usage: 1.5+ MB
```

```
In [61]: store.columns
```

```
Out[61]: 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 [63]: 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 [65]: store.columns
```

```
Out[65]: 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 [67]: store['Category']
```

```
Out[67]: 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 [69]: store[['Customer Name', 'City']]
```

```
Out[69]:   Customer Name          City  
0      Darren Powers      Houston  
1      Phillipa Ober      Naperville  
2      Phillipa Ober      Naperville  
3      Phillipa 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 [71]: store_categorical = store[['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']]  
store_categorical
```

Out[71]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment
0	Office Supplies	Houston	United States	Darren Powers	Message Book	03-01-2020	US-2020-103800	77015	Message Book, Wirebound, Four 5 1/2" X 4" Form...	Central	Consumer
1	Office Supplies	Naperville	United States	Phillina Ober	GBC	04-01-2020	US-2020-112326	60540	GBC Standard Plastic Binding Systems Combs	Central	Home Office
2	Office Supplies	Naperville	United States	Phillina Ober	Avery	04-01-2020	US-2020-112326	60540	Avery 508	Central	Home Office
3	Office Supplies	Naperville	United States	Phillina Ober	SAFCO	04-01-2020	US-2020-112326	60540	SAFCO Boltless Steel Shelving	Central	Home Office
4	Office Supplies	Philadelphia	United States	Mick Brown	Avery	05-01-2020	US-2020-141817	19143	Avery Hi-Liter EverBold Pen Style Fluorescent	East	Consumer
...
10189	Office Supplies	New York City	United States	Patrick O'Donnell	Wilson Jones	30-12-2023	US-2023-143259	10009	Wilson Jones Legal Size Ring Binders	East	Consumer
10190	Office Supplies	Fairfield	United States	Erica Bern	GBC	30-12-2023	US-2023-115427	94533	GBC Binding covers	West	Corporate

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment
10191	Office Supplies	Loveland	United States	Jill Matthias	Other	30-12-2023	US-2023-156720	80538	Bagged Rubber Bands	West	Consumer
10192	Technology	New York City	United States	Patrick O'Donnell	Other	30-12-2023	US-2023-143259	10009	Gear Head AU3700S Headset	East	Consumer
10193	Office Supplies	Charlottetown	Canada	Harry Olson	Wilson Jones	30-12-2023	CA-2023-143500	C0A	Wilson Jones Impact Binders	East	Consumer

10194 rows × 15 columns

In [73]: `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 [75]: store_numerical = store[['Discount', 'Profit', 'Quantity', 'Sales']]
store_numerical
```

Out[75]:

	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 [77]:

```
store.head() # top 5 rows
```

Out[77]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment	Ship Date
0	Office Supplies	Houston	United States	Darren Powers	Message Book	03-01-2020	US-2020-103800	77015	Message Book, Wirebound, Four 5 1/2" X 4" Form...	Central	Consumer	01-01-2022
1	Office Supplies	Naperville	United States	Phillina Ober	GBC	04-01-2020	US-2020-112326	60540	GBC Standard Plastic Binding Systems Combs	Central	Home Office	08-01-2022
2	Office Supplies	Naperville	United States	Phillina Ober	Avery	04-01-2020	US-2020-112326	60540	Avery 508	Central	Home Office	08-01-2022
3	Office Supplies	Naperville	United States	Phillina Ober	SAFCO	04-01-2020	US-2020-112326	60540	SAFCO Boltless Steel Shelving	Central	Home Office	08-01-2022
4	Office Supplies	Philadelphia	United States	Mick Brown	Avery	05-01-2020	US-2020-141817	19143	Avery Hi-Liter EverBold Pen Style Fluorescent	East	Consumer	12-01-2022
...												
◀ ▶												

In [79]: `store.tail() # bottom 5 records`

Out[79]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment
10189	Office Supplies	New York City	United States	Patrick O'Donnell	Wilson Jones	30-12-2023	US-2023-143259	10009	Wilson Jones Legal Size Ring Binders	East	Consumer
10190	Office Supplies	Fairfield	United States	Erica Bern	GBC	30-12-2023	US-2023-115427	94533	GBC Binding covers	West	Corporate
10191	Office Supplies	Loveland	United States	Jill Matthias	Other	30-12-2023	US-2023-156720	80538	Bagged Rubber Bands	West	Consumer
10192	Technology	New York City	United States	Patrick O'Donnell	Other	30-12-2023	US-2023-143259	10009	Gear Head AU3700S Headset	East	Consumer
10193	Office Supplies	Charlottetown	Canada	Harry Olson	Wilson Jones	30-12-2023	CA-2023-143500	C0A	Wilson Jones Impact Binders	East	Consumer

[◀](#) [▶](#)

In [81]: `store[:]`

Out[81]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment
0	Office Supplies	Houston	United States	Darren Powers	Message Book	03-01-2020	US-2020-103800	77015	Message Book, Wirebound, Four 5 1/2" X 4" Form...	Central	Consumer
1	Office Supplies	Naperville	United States	Phillina Ober	GBC	04-01-2020	US-2020-112326	60540	GBC Standard Plastic Binding Systems Combs	Central	Home Office
2	Office Supplies	Naperville	United States	Phillina Ober	Avery	04-01-2020	US-2020-112326	60540	Avery 508	Central	Home Office
3	Office Supplies	Naperville	United States	Phillina Ober	SAFCO	04-01-2020	US-2020-112326	60540	SAFCO Boltless Steel Shelving	Central	Home Office
4	Office Supplies	Philadelphia	United States	Mick Brown	Avery	05-01-2020	US-2020-141817	19143	Avery Hi-Liter EverBold Pen Style Fluorescent	East	Consumer
...
10189	Office Supplies	New York City	United States	Patrick O'Donnell	Wilson Jones	30-12-2023	US-2023-143259	10009	Wilson Jones Legal Size Ring Binders	East	Consumer
10190	Office Supplies	Fairfield	United States	Erica Bern	GBC	30-12-2023	US-2023-115427	94533	GBC Binding covers	West	Corporate

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment
10191	Office Supplies	Loveland	United States	Jill Matthias	Other	30-12-2023	US-2023-156720	80538	Bagged Rubber Bands	West	Consumer
10192	Technology	New York City	United States	Patrick O'Donnell	Other	30-12-2023	US-2023-143259	10009	Gear Head AU3700S Headset	East	Consumer
10193	Office Supplies	Charlottetown	Canada	Harry Olson	Wilson Jones	30-12-2023	CA-2023-143500	C0A	Wilson Jones Impact Binders	East	Consumer

10194 rows × 19 columns

In [83]: `store[0:10]`

Out[83]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment	Ship Date
0	Office Supplies	Houston	United States	Darren Powers	Message Book	03-01-2020	US-2020-103800	77015	Message Book, Wirebound, Four 5 1/2" X 4" Form...	Central	Consumer	01-01-2022
1	Office Supplies	Naperville	United States	Phillina Ober	GBC	04-01-2020	US-2020-112326	60540	GBC Standard Plastic Binding Systems Combs	Central	Home Office	08-01-2022
2	Office Supplies	Naperville	United States	Phillina Ober	Avery	04-01-2020	US-2020-112326	60540	Avery 508	Central	Home Office	08-01-2022
3	Office Supplies	Naperville	United States	Phillina Ober	SAFCO	04-01-2020	US-2020-112326	60540	SAFCO Boltless Steel Shelving	Central	Home Office	08-01-2022
4	Office Supplies	Philadelphia	United States	Mick Brown	Avery	05-01-2020	US-2020-141817	19143	Avery Hi-Liter EverBold Pen Style Fluorescent ...	East	Consumer	12-01-2022
5	Furniture	Henderson	United States	Maria Etezadi	Global	06-01-2020	US-2020-167199	42420	Global Deluxe High-Back Manager's Chair	South	Home Office	10-01-2022
6	Office Supplies	Henderson	United States	Maria Etezadi	Rogers	06-01-2020	US-2020-167199	42420	Rogers Handheld Barrel Pencil Sharpener	South	Home Office	10-01-2022

Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment	Ship Date	
7	Office Supplies	Athens	United States	Jack O'Briant	Dixon	06-01-2020	US-2020-106054	30605	Dixon Prang Watercolor Pencils, 10-Color Set w...	South	Corporate	07-01-2020
8	Office Supplies	Henderson	United States	Maria Etezadi	Ibico	06-01-2020	US-2020-167199	42420	Ibico Hi-Tech Manual Binding System	South	Home Office	10-01-2020
9	Office Supplies	Henderson	United States	Maria Etezadi	Alliance	06-01-2020	US-2020-167199	42420	Alliance Super-Size Bands, Assorted Sizes	South	Home Office	10-01-2020

In [85]: `store[0:10:2]`

Out[85]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment	Ship Date
0	Office Supplies	Houston	United States	Darren Powers	Message Book	03-01-2020	US-2020-103800	77015	Message Book, Wirebound, Four 5 1/2" X 4" Form...	Central	Consumer	07-01-2022
2	Office Supplies	Naperville	United States	Phillina Ober	Avery	04-01-2020	US-2020-112326	60540	Avery 508	Central	Home Office	08-01-2022
4	Office Supplies	Philadelphia	United States	Mick Brown	Avery	05-01-2020	US-2020-141817	19143	Avery Hi-Liter EverBold Pen Style Fluorescent ...	East	Consumer	12-01-2022
6	Office Supplies	Henderson	United States	Maria Etezadi	Rogers	06-01-2020	US-2020-167199	42420	Rogers Handheld Barrel Pencil Sharpener	South	Home Office	10-01-2022
8	Office Supplies	Henderson	United States	Maria Etezadi	Ibico	06-01-2020	US-2020-167199	42420	Ibico Hi-Tech Manual Binding System	South	Home Office	10-01-2022

In [87]: `store[::-1]`

Out[87]:

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment
10193	Office Supplies	Charlottetown	Canada	Harry Olson	Wilson Jones	30-12-2023	CA-2023-143500	C0A	Wilson Jones Impact Binders	East	Consumer
10192	Technology	New York City	United States	Patrick O'Donnell	Other	30-12-2023	US-2023-143259	10009	Gear Head AU3700S Headset	East	Consumer
10191	Office Supplies	Loveland	United States	Jill Matthias	Other	30-12-2023	US-2023-156720	80538	Bagged Rubber Bands	West	Consumer
10190	Office Supplies	Fairfield	United States	Erica Bern	GBC	30-12-2023	US-2023-115427	94533	GBC Binding covers	West	Corporate
10189	Office Supplies	New York City	United States	Patrick O'Donnell	Wilson Jones	30-12-2023	US-2023-143259	10009	Wilson Jones Legal Size Ring Binders	East	Consumer
...
4	Office Supplies	Philadelphia	United States	Mick Brown	Avery	05-01-2020	US-2020-141817	19143	Avery Hi-Liter EverBold Pen Style Fluorescent	East	Consumer
3	Office Supplies	Naperville	United States	Phillina Ober	SAFCO	04-01-2020	US-2020-112326	60540	SAFCO Boltless Steel Shelving	Central	Home Office
2	Office Supplies	Naperville	United States	Phillina Ober	Avery	04-01-2020	US-2020-112326	60540	Avery 508	Central	Home Office

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment
1	Office Supplies	Naperville	United States	Phillina Ober	GBC	04-01-2020	US-2020-112326	60540	GBC Standard Plastic Binding Systems Combs	Central	Home Office
	Office Supplies	Houston	United States	Darren Powers	Message Book	03-01-2020	US-2020-103800	77015	Message Book, Wirebound, Four 5 1/2" X 4" Form...	Central	Consumer

10194 rows × 19 columns

In [89]: `store[6:7]`

	Category	City	Country/Region	Customer Name	Manufacturer	Order Date	Order ID	Postal Code	Product Name	Region	Segment	Ship Date
6	Office Supplies	Henderson	United States	Maria Etezadi	Rogers	06-01-2020	US-2020-167199	42420	Rogers Handheld Barrel Pencil Sharpener	South	Home Office	10-01-2020

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