

```
import pandas as pd
import seaborn as sns
import plotly.express as px
from datetime import datetime as dt
```

```
df = pd.read_csv('https://raw.githubusercontent.com/plotly/datasets/master/global_super_store_orders.tsv', sep = '\t')
```

▼ Column list

- Order ID:** Each order receives its own Order ID
- Ship Date:**The definition of ship date is the date that the order is shipped from the seller or warehouse to the customer.
- Ship Mode :** The shipping mode is a way of shipping goods. More specifically, a shipping mode is the combination of a shipping carrier and the shipping service that is offered by that carrier.That column have a three types of mode (**Standard Class,Second Class,Same Day, First Class**)
- Customer ID:** Customer ID means the unique means of identification allocated to or selected by the Customer in relation to any one or more of the Services whether in the form of a password, PIN or other form of personal identification, or any combination of any of them.
- Customer Name:** Name of the Perion who purchase the product
- Segment :**In marketing, market segmentation is the process of dividing a broad consumer into sub-groups of consumers based on some type of shared characteristics
- City:**The definition of a city is a town of significant size or an urban area with self-government
- State:**State is defined as a territory with its own government and borders within a larger country
- Country:**A country is defined as a nation, the people of the nation or land in a rural area
- Postal Code:**A postal code is a series of letters or digits or both, sometimes including spaces or punctuation, included in a postal address for the purpose of sorting mail
- Market:**A marker identifies a location on a map
- Region :** A region is a large area of land that is different from other areas of land
- Product ID :** Product identifiers are a series of numerical or alphanumeric digits that are used to identify a specific product
- Category :**The definition of a category is any sort of division or class
- Sub-Category:** A category that is a subdivision of a larger category
- Product Name:** A product name identifies a specific product
- Sales :** Sales are activities related to selling or the number of goods sold in a given targeted time period
- Quantity :** an indefinite amount or number
- Discount :**A discount is the reduction of either the monetary amount or a percentage of the normal selling price of a product or service

- Profit :** Profit is the money a business pulls in after accounting for all expenses
- Shipping Cost:** Just weigh the package and use a shipping cost calculator to get a shipping price
- Order Priority:**Order of Priority means, in respect of any payment to be made by the Issuer before the Enforcement Date

df.head()

1 to 5 of 5 entries

Filter

?

index	Unnamed: 0	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	City	State	Country	Postal Code	Market	Region	Product ID	Category	Sub-Category	Pro
0	35180	29165	IN-2014-24531	8/15/14	8/19/14	Standard Class	AS-10285	Alejandro Savely	Corporate	Guangzhou	Guangdong	China	NaN	APAC	North Asia	OFF-SU-10001343	Office Supplies	Supplies	Elite Higl
1	39850	39615	CA-2014-130904	4/12/14	4/17/14	Standard Class	HM-14980	Henry MacAllister	Consumer	Burlington	North Carolina	United States	27217.0	US	South	OFF-AR-10000127	Office Supplies	Art	Nev
2	41575	39158	CA-2012-142993	10/12/12	10/17/12	Standard Class	KA-16525	Kelly Andreada	Consumer	Seattle	Washington	United States	98103.0	US	West	TEC-AC-10003038	Technology	Accessories	King Digi Dat: 16C
3	12393	2193	MX-2013-169502	6/13/13	6/15/13	Second Class	AJ-10960	Astrea Jones	Consumer	Santo Domingo	Santo Domingo	Dominican Republic	NaN	LATAM	Caribbean	TEC-AC-10001341	Technology	Accessories	Env Mer US
4	45530	23217	IN-2014-50627	9/14/14	9/18/14	Standard Class	LW-16825	Laurel Workman	Corporate	Jinhua	Zhejiang	China	NaN	APAC	North Asia	OFF-EN-10001977	Office Supplies	Envelopes	Car Bus Env Rec

Show 25 per page

Like what you see? Visit the [data table notebook](#) to learn more about interactive tables.

Warning: Total number of columns (25) exceeds max\_columns (20) limiting to first (20) columns.

```
df.tail()
```



Information of Data frame

```
new_df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 24 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Row ID                1000 non-null  int64
1   Order ID              1000 non-null  object
2   Order Date            1000 non-null  datetime64[ns]
3   Ship Date             1000 non-null  datetime64[ns]
4   Ship Mode             1000 non-null  object
5   Customer ID           1000 non-null  object
6   Customer Name         1000 non-null  object
7   Segment              1000 non-null  object
8   City                  1000 non-null  object
9   State                 1000 non-null  object
10  Country               1000 non-null  object
11  Postal Code           1000 non-null  object
12  Market                1000 non-null  object
13  Region                1000 non-null  object
14  Product ID            1000 non-null  object
15  Category              1000 non-null  object
16  Sub-Category          1000 non-null  object
17  Product Name          1000 non-null  object
18  Sales                 1000 non-null  object
19  Quantity              1000 non-null  int64
20  Discount              1000 non-null  object
21  Profit                1000 non-null  object
22  Shipping Cost         1000 non-null  object
23  Order Priority         1000 non-null  object
dtypes: datetime64[ns](2), int64(2), object(20)
memory usage: 187.6+ KB
```


Define the Roll of Data Frame

```
new_df.shape[0]

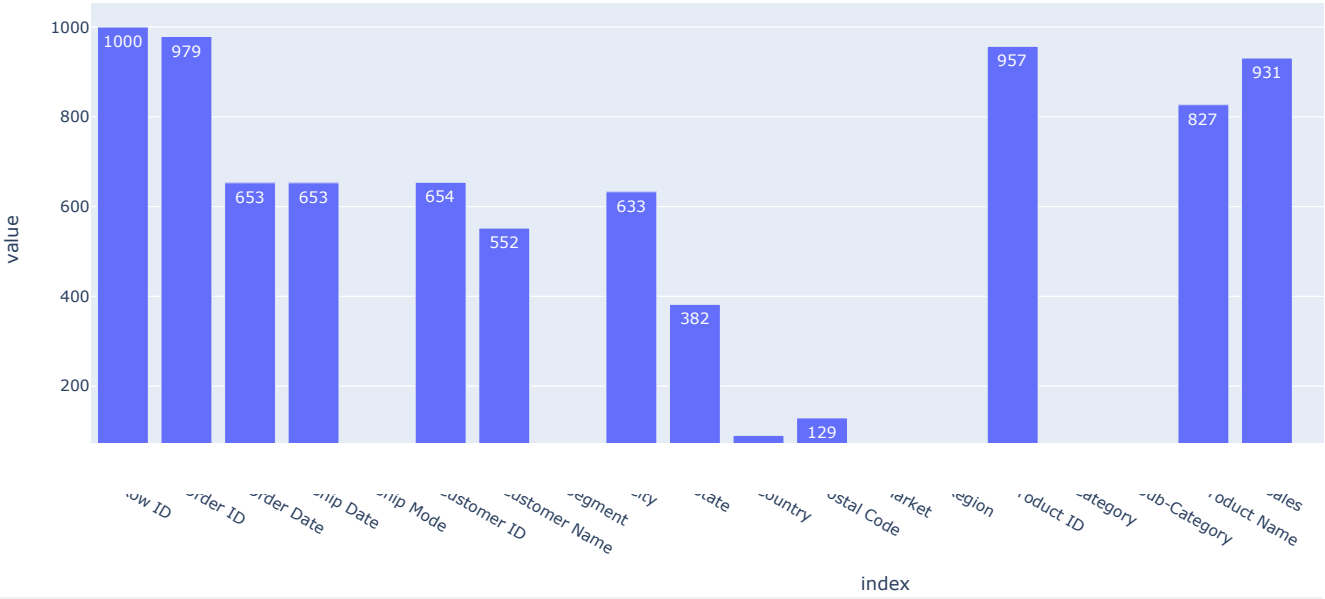
1000
```

Define the Unique value of Data Frame

```
unique=pd.DataFrame(new_df.nunique())
unique
```

	0	
Row ID	1000	
Order ID	979	
Order Date	653	
Ship Date	653	
Ship Mode	4	
Customer ID	654	
Customer Name	552	
Segment	3	
City	633	
State	382	
Country	90	
Postal Code	129	
Market	7	
Region	13	
Product ID	957	
Category	3	
Sub-Category	17	
Product Name	827	
Sales	931	
Quantity	14	
Discount	21	
Profit	903	
Shipping Cost	848	
Order Priority	4	

```
px.bar(unique, text_auto=True)
```



✓ 0s completed at 5:58 PM