

```
from google.colab import drive
drive.mount('/content/drive')

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).
```

```
import numpy as np
import pandas as pd
all_data=pd.read_csv('/content/drive/MyDrive/1686715083343_all_data (6).csv')
all_data.head()
```

	Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address
0	176559.0	Bose SoundSport Headphones	1.0	99.99	04-07-2019 22:30	682 Chestnut St, Boston, MA 02215
1	176560.0	Google Phone	1.0	600.00	04-12-2019 14:38	669 Spruce St, Los Angeles, CA 90001
2	176560.0	Wired Headphones	1.0	11.99	04-12-2019 14:38	669 Spruce St, Los Angeles, CA 90001
3	176561.0	Wired Headphones	1.0	11.99	05/30/19 9:27	333 8th St, Los Angeles, CA 90001

```
#Find NAN
nan_df = all_data[all_data.isna().any(axis=1)]
display(nan_df.head())
```

```
all_data.shape
```

```
all_data = all_data.dropna(how='all')
all_data.head()
```

	Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address
36	NaN	NaN	NaN	NaN	NaN	NaN
51	NaN	NaN	NaN	NaN	NaN	NaN



	Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address
0	176559.0	Bose SoundSport Headphones	1.0	99.99	04-07-2019 22:30	682 Chestnut St, Boston, MA 02215
1	176560.0	Google Phone	1.0	600.00	04-12-2019 14:38	669 Spruce St, Los Angeles, CA 90001

```
all_data = all_data[all_data['Order Date'].str[0:2]!='Or']
print(all_data)

all_data['Quantity Ordered'] = pd.to_numeric(all_data['Quantity Ordered'])
all_data['Price Each'] = pd.to_numeric(all_data['Price Each'])

all_data['Month'] = all_data['Order Date'].str[0:2]
all_data['Month'] = all_data['Month'].astype('int32')
all_data.head()
```

Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address	Month
	Bose			04-07-	682 Chestnut St,	

```
from pandas.core.ops.methods import add_flex_arithmetic_methods
```

```
def get_city(address):
    return address.split(",")[1].strip(" ")
```

```
def get_state(address):
    return address.split(",")[2].split(" ")[1]
```

```
all_data['city'] = all_data["Purchase Address"].apply(lambda x:f"{get_city(x)} {get_state(x)}")
all_data.head()
```

	Order ID	Product	Quantity Ordered	Price Each	Order Date	Purchase Address	Month	city	Sales
0	176559.0	Bose SoundSport Headphones	1.0	99.99	04-07-2019 22:30	682 Chestnut St, Boston, MA 02215	4	Boston MA	99.
1	176560.0	Google Phone	1.0	600.00	04-12-2019 14:38	669 Spruce St, Los Angeles, CA 90001	4	Los Angeles CA	600.
2	176560.0	Wired Headphones	1.0	11.99	04-12-2019 14:38	669 Spruce St, Los Angeles, CA	4	Los Angeles CA	11.

```
all_data['Sales'] = all_data['Quantity Ordered'].astype('int') * all_data['Price Each'].astype('float')
all_data.groupby(['Month']).sum()
```

```
<ipython-input-11-788baa00bdec>:2: FutureWarning: The default value of numeric_only
all_data.groupby(['Month']).sum()
```

	Order ID	Quantity Ordered	Price Each	Sales
Month				
4	7335546.0	123.0	885.80	1210.76
5	353124.0	2.0	111.98	111.98
6	184076.0	1.0	14.95	14.95
8	726962.0	9.0	23.92	50.83
9	2378802.0	17.0	591.44	616.62
10	550924.0	11.0	10.67	39.69
11	740314.0	19.0	13.66	65.31
12	550635.0	17.0	8.97	50.83

```
Dummyscity=all_data.groupby(['city'])
print(Dummyscity)
#city_max=all_data.groupby(['City']).sum()
#print(max(city_max))
```

```
<pandas.core.groupby.generic.DataFrameGroupBy object at 0x7fd864fee8f0>
```

```
product_group = all_data.groupby('Product')
quantity_ordered = product_group.sum()['Quantity Ordered']
```

```
<ipython-input-17-4815a60ac30b>:2: FutureWarning: The default value of numeric_only in DataFrameGroupBy.sum is deprecated. In a future
quantity_ordered = product_group.sum()['Quantity Ordered']
```

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completed at 10:05 PM

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