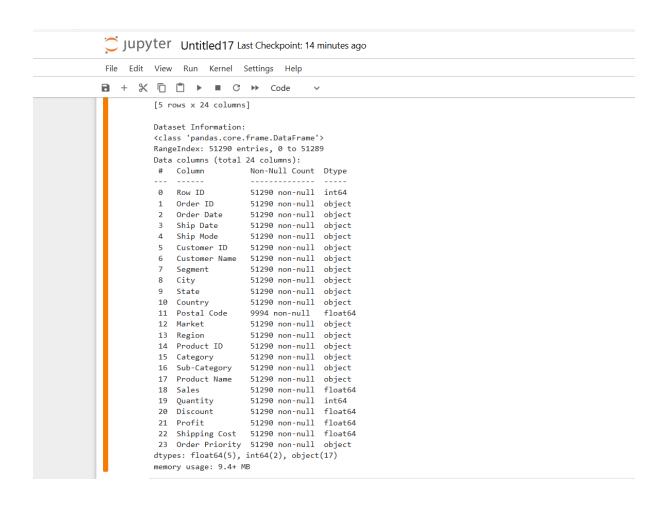
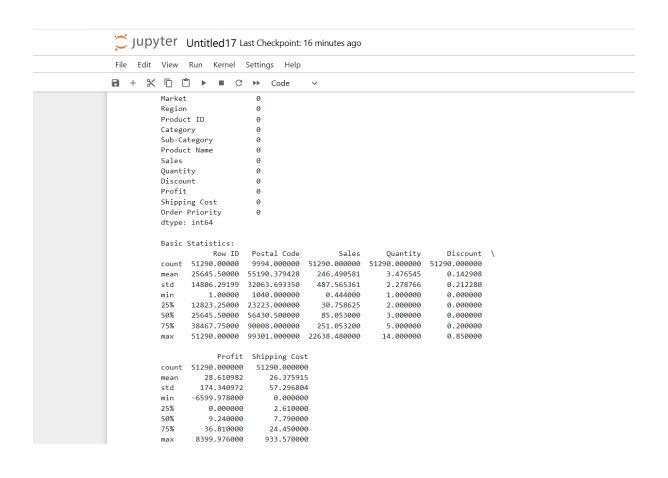
#### Name: Revanth Kakularam

```
回个少占与
•[7]: #Revanth Kakulard
        import pandas as pd
        import matplotlib.pyplot as plt
        file_path = r'C:\Users\revan\Downloads\Global-Superstore - Global-Superstore.csv.csv' # Update with your file path
        data = pd.read_csv(file_path)
        # Display the first few rows of the dataset
        print("First few rows of the dataset:")
print(data.head())
        # Check the structure of the dataset
        print("\nDataset Information:")
data.info()
        First few rows of the dataset:
          Row ID Order ID Order Date Ship Date Ship Mode C 32298 CA-2012-124891 7/31/2012 7/31/2012 Same Day 26341 IN-2013-77878 2/5/2013 2/7/2013 Second Class 25330 IN-2013-71249 10/17/2013 10/18/2013 First Class
                                                                            Ship Mode Customer ID \
                                                                                               RH-19495
JR-16210
                                                                                               CR-12730
            13524 ES-2013-1579342 1/28/2013 1/30/2013 First Class 47221 SG-2013-4320 11/5/2013 11/6/2013 Same Day
                                                                                                RH-9495
                                                                                 State ... \
        Segment City State ...
Rick Hansen Consumer New York City New York ...
1 Justin Ritter Corporate Wollongong New South Wales ...
Craig Reiter Consumer Brisbane Queensland ...
Katherine Murray Home Office Berlin Berlin ...
               Customer Name
                                       Segment
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                                                                                                                                                                                   JupyterLab 🖸 🍍
                              Customer Name
                                                       Segment
                                                                            City
                                                                                                  State ... \
                                                      Consumer New York City
                                 Rick Hansen
                                                                                                New York ...
                                                  Consumer Brishane Ouensland
                                                                      Brisbane
                                                                                        Queensland ...
                       2 Craig Reiter Consumer
3 Katherine Murray Home Office
4 Rick Hansen Consumer
                                                                         Berlin
                                                                                               Berlin
                                                                            Dakar
                                                                                                   Dakar ...
                                 Product ID
                                                   Category Sub-Category \
                      Tec-Ac-10003033 Technology Accessories
FUR-CH-10003950 Furniture Chairs
Tec-PH-10004664 Technology Phones
                            TEC-PH-10004583 Technology
                                                                        Phones
                        4 TEC-SHA-10000501 Technology
                                                                    Copiers
                      Product Name Sales Quantity \
0 Plantronics CS510 - Over-the-Head monaural Wir... 2309.650 7
1 Novimex Executive Leather Armchair, Black 3709.395 9
                                               Nokia Smart Phone, with Caller ID 5175.171
Motorola Smart Phone, Cordless 2892.510
                                                   Sharp Wireless Fax, High-Speed 2832.960
                                                                                                                  8
                                         Profit Shipping Cost Order Priority
                         Discount
                                0.0 762.1845
0.1 -288.7650
                                                            933.57
923.63
                                                                           Critical
Critical
                                                                              Medium
                                0.1 919.9710
                                                             915.49
                                                                                 Medium
                                                                          Critical
                                0.0 311.5200
                                                            903.04
                       [5 rows x 24 columns]
```



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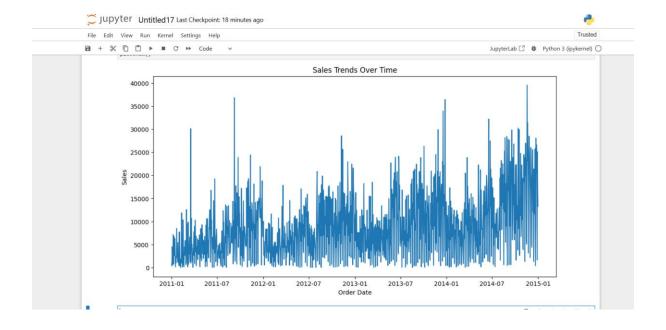
```
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    [8]: # Check for missing values
           missing_values = data.isnull().sum()
           print("\nMissing Values:")
           print(missing_values)
           # Get basic statistics
           statistics = data.describe()
           print("\nBasic Statistics:")
           print(statistics)
           # Fill missing values if needed (e.g., for postal codes or specific columns)
           data.fillna('', inplace=True)
           # Convert 'Order Date' and 'Ship Date' to datetime format
           data['Ship Date'] = pd.to_datetime(data['Ship Date'])
          print("\nDataset Information After Conversion:")
data.info()
           Missing Values:
Row ID
Order ID
           Order Date
           Ship Date
           Ship Mode
           Customer ID
           Customer Name
           Segment
           City
           Country
           Postal Code
                             41296
           Market
```



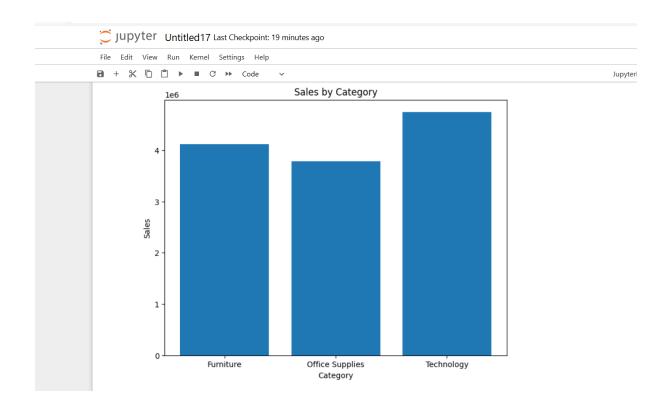


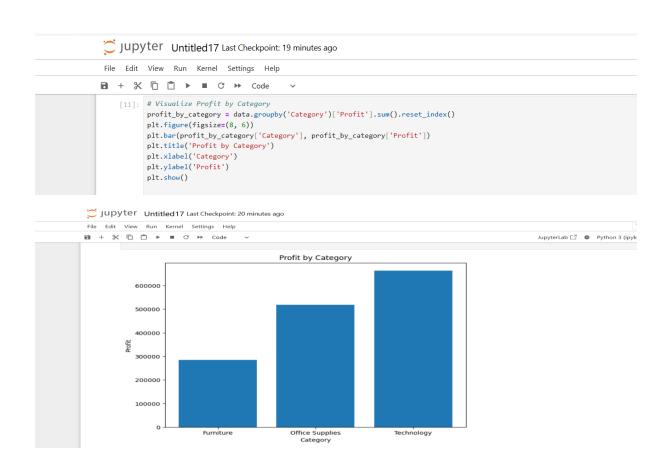
```
Edit View
                Run Kernel Settings Help
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          Dataset Information After Conversion:
          <class 'pandas.core.frame.DataFrame'>
          RangeIndex: 51290 entries, 0 to 51289
          Data columns (total 24 columns):
           # Column
                              Non-Null Count Dtype
           0
               Row ID
                              51290 non-null int64
               Order ID
                              51290 non-null object
               Order Date
                              51290 non-null datetime64[ns]
               Ship Date
                              51290 non-null datetime64[ns]
                              51290 non-null object
           4
               Ship Mode
           5
               Customer TD
                              51290 non-null object
               Customer Name
                              51290 non-null
                                             object
               Segment
                              51290 non-null
           8
               City
                              51290 non-null object
           9
                              51290 non-null
                                             object
               State
                              51290 non-null object
           10
              Country
           11 Postal Code
                              51290 non-null
                                             object
           12 Market
                              51290 non-null object
           13 Region
                              51290 non-null
                                             object
           14 Product ID
                              51290 non-null
                                             object
           15 Category
                              51290 non-null object
                              51290 non-null
           16
               Sub-Category
                              51290 non-null object
           17 Product Name
                              51290 non-null
           18 Sales
                                             float64
                              51290 non-null int64
           19 Quantity
                              51290 non-null float64
           20 Discount
           21 Profit
                              51290 non-null
                                             float64
           22 Shipping Cost
                              51290 non-null float64
           23 Order Priority 51290 non-null object
          dtypes: datetime64[ns](2), float64(4), int64(2), object(16)
          memory usage: 9.4+ MB
```

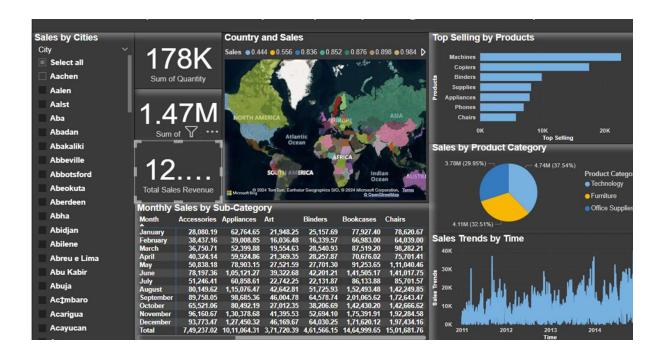
```
[9]: # Visualize Sales Trends Over Time
sales_trends = data.groupby('Order Date')['Sales'].sum().reset_index()
plt.figure(figsize=(12, 6))
plt.plot(sales_trends['Order Date'], sales_trends['Sales'])
plt.title('Sales Trends Over Time')
plt.xlabel('Order Date')
plt.ylabel('Sales')
plt.show()
```



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# Navigator



### Global-Superstore.csv



Load Transform Data Cancel

2

