```
In [30]: import pandas as pd
         import matplotlib.pyplot as plt
         import seaborn as sns
         # file path
         excel_file_path = 'SaleData.xlsx'
         # Load the SaleData from excel
         df = pd.read_excel(excel_file_path)
         # Display the first few rows of the SaleData
         print("SaleData Overview:")
         print(df.head())
         # Basic statistics about numerical columns
         print("\nSummary Statistics:")
         print(df.describe())
         # Insights about sales by region
         plt.figure(figsize=(10, 6))
         sns.barplot(x='Region', y='Sale_amt', data=df, ci=None)
         plt.title('Total Sale Amount by Region')
         plt.xlabel('Region')
         plt.ylabel('Total Sale Amount')
         plt.show()
         # Insights about sales by manager
         plt.figure(figsize=(10, 6))
         sns.barplot(x='Manager', y='Sale_amt', data=df, ci=None)
         plt.title('Total Sale Amount by Manager')
         plt.xlabel('Manager')
         plt.ylabel('Total Sale Amount')
         plt.xticks(rotation=45)
         plt.show()
         # Relationship between Units and Sale Amount
         plt.figure(figsize=(10, 6))
         sns.scatterplot(x='Units', y='Sale_amt', data=df)
         plt.title('Relationship between Units and Sale Amount')
         plt.xlabel('Units')
         plt.ylabel('Sale Amount')
         plt.show()
         SaleData Overview:
            OrderDate Region Manager SalesMan
                                                           Item Units Unit_price \
         0 2018-01-06
                        East Martha Alexander
                                                   Television 95.0
                                                                            1198.0
                                           Shelli Home Theater 50.0
                                                                             500.0
         1 2018-01-23 Central Hermann
                                           Luis Television 36.0
                                                                            1198.0
         2 2018-02-09 Central Hermann
         3 2018-02-26 Central Timothy
                                            David
                                                     Cell Phone 27.0
                                                                            225.0
         4 2018-03-15
                         West Timothy
                                          Stephen
                                                    Television 56.0
                                                                            1198.0
            Sale_amt
         0 113810.0
         1 25000.0
         2
            43128.0
         3
             6075.0
         4 67088.0
         Summary Statistics:
                    Units Unit_price
                                             Sale_amt
         count 45.000000
                            45.000000
                                            45.000000
         mean 54.083333 583.313889 30578.761111
                45.096676 444.806622 32227.534943
         std
         min
               2.000000
                            58.500000
                                         250.000000
              28.000000 225.000000
         25%
                                         4329.000000
                 53.000000 500.000000 17100.000000
         75%
                75.000000 1198.000000 43128.000000
                278.000000 1198.000000 113810.000000
         max
                                      Total Sale Amount by Region
           35000
           30000
           25000
           20000
         Total Sale A
           10000
            5000
                         East
                                               Central
                                                                     West
                                               Region
                                      Total Sale Amount by Manager
           35000
           30000
           25000
         Total Sale Amount
000051
           10000
            5000
                                              Manager
                                  Relationship between Units and Sale Amount
           100000
            80000
            60000
            40000
            20000
                                               150
```