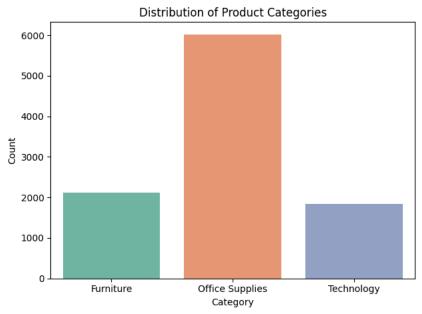
```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
df = pd.read_csv('/content/drive/MyDrive/Sample - Superstore.csv', encoding='latin1')
print(df.head())
print(df.info())
₹
       {\tt Row}\ {\tt ID}
                     Order ID Order Date Ship Date
                                                           Ship Mode Customer ID \
            1 CA-2016-152156
                               11/8/2016 11/11/2016
                                                        Second Class
                                                                        CG-12520
            2 CA-2016-152156 11/8/2016 11/11/2016
                                                        Second Class
                                                                        CG-12520
    1
            3 CA-2016-138688 6/12/2016 6/16/2016
                                                                        DV-13045
                                                       Second Class
    3
            4 US-2015-108966 10/11/2015 10/18/2015 Standard Class
                                                                        SO-20335
            5 US-2015-108966 10/11/2015 10/18/2015 Standard Class
                                                                        SO-20335
         Customer Name
                          Segment
                                        Country
                                                            City ... \
    0
           Claire Gute Consumer United States
                                                       Henderson ...
                                                       Henderson ...
           Claire Gute
                        Consumer United States
    1
    2
       Darrin Van Huff Corporate United States
                                                     Los Angeles ...
        Sean O'Donnell Consumer United States Fort Lauderdale ...
        Sean O'Donnell Consumer United States Fort Lauderdale ...
      Postal Code Region
                                Product ID
                                                  Category Sub-Category \
    0
            42420
                    South FUR-B0-10001798
                                                 Furniture
                                                              Bookcases
                    South FUR-CH-10000454
    1
            42420
                                                 Furniture
                                                                 Chairs
            90036
                     West OFF-LA-10000240 Office Supplies
                                                                 Lahels
    2
    3
            33311
                    South
                          FUR-TA-10000577
                                                 Furniture
                                                                 Tables
                    South OFF-ST-10000760 Office Supplies
    4
            33311
                                                                Storage
                                           Product Name
                                                            Sales Quantity
                       Bush Somerset Collection Bookcase 261.9600
    0
    1
       Hon Deluxe Fabric Upholstered Stacking Chairs,... 731.9400
                                                                          3
    2
       Self-Adhesive Address Labels for Typewriters b...
                                                          14.6200
                                                                          2
    3
           Bretford CR4500 Series Slim Rectangular Table 957.5775
                                                                          5
    4
                          Eldon Fold 'N Roll Cart System 22.3680
       Discount
                   Profit
    0
                  41.9136
           0.00
           0.00 219.5820
    1
    2
           0.00
                   6.8714
           0.45 -383.0310
    3
           0.20
                 2.5164
    [5 rows x 21 columns]
    <class 'pandas.core.frame.DataFrame'>
    RangeIndex: 9994 entries, 0 to 9993
    Data columns (total 21 columns):
         Column
                    Non-Null Count Dtype
                        9994 non-null int64
     9
         Row TD
         Order ID
                        9994 non-null
                                       object
         Order Date
                        9994 non-null
                                       object
         Ship Date
                        9994 non-null
                                       object
     4
         Ship Mode
                        9994 non-null
                                       object
         Customer ID
                        9994 non-null
                                        object
         Customer Name 9994 non-null
                                       object
                        9994 non-null
         Segment
                                       object
     8
         Country
                        9994 non-null
                                        object
         City
                        9994 non-null
                                       object
     10 State
                        9994 non-null
                                        object
     11
         Postal Code
                        9994 non-null
                                        int64
                        9994 non-null
         Region
                                        object
     13 Product ID
                        9994 non-null
                                        object
                        9994 non-null
     14 Category
                                        object
     15 Sub-Category
                        9994 non-null
                                        object
                       9994 non-null
         Product Name
                                       object
df.dropna(subset=['Sales', 'Profit', 'Category', 'Region', 'Ship Mode'], inplace=True)
sns.countplot(data=df, x='Category', palette='Set2')
plt.title('Distribution of Product Categories')
plt.xlabel('Category')
plt.ylabel('Count')
plt.tight_layout()
plt.show()
```

/tmp/ipython-input-7-1125743949.py:1: FutureWarning:

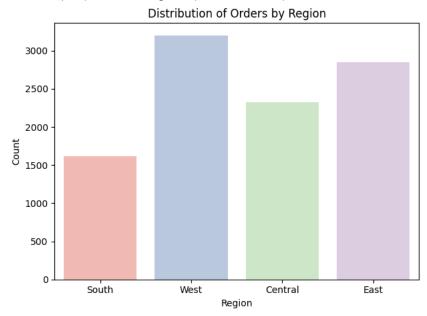
Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend sns.countplot(data=df, x='Category', palette='Set2')



```
sns.countplot(data=df, x='Region', palette='Pastel1')
plt.title('Distribution of Orders by Region')
plt.xlabel('Region')
plt.ylabel('Count')
plt.tight_layout()
plt.show()
```

/tmp/ipython-input-8-4182484906.py:1: FutureWarning:

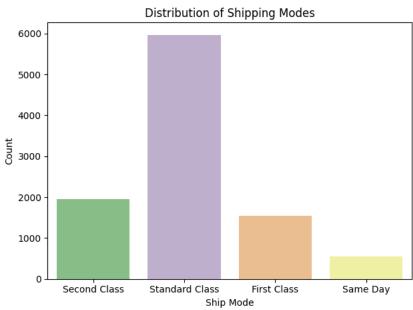
Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend sns.countplot(data=df, x='Region', palette='Pastel1')



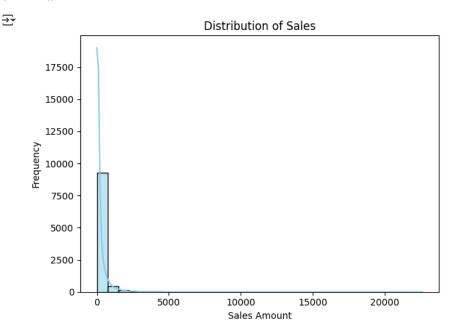
```
sns.countplot(data=df, x='Ship Mode', palette='Accent')
plt.title('Distribution of Shipping Modes')
plt.xlabel('Ship Mode')
plt.ylabel('Count')
plt.tight_layout()
plt.show()
```

/tmp/ipython-input-9-3365989916.py:1: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend sns.countplot(data=df, x='Ship Mode', palette='Accent')

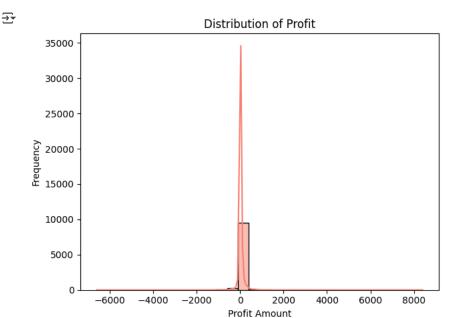


```
sns.histplot(df['Sales'], kde=True, bins=30, color='skyblue')
plt.title('Distribution of Sales')
plt.xlabel('Sales Amount')
plt.ylabel('Frequency')
plt.tight_layout()
plt.show()
```



```
sns.histplot(df['Profit'], kde=True, bins=30, color='salmon')
plt.title('Distribution of Profit')
plt.xlabel('Profit Amount')
plt.ylabel('Frequency')
plt.tight_layout()
```

plt.show()



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