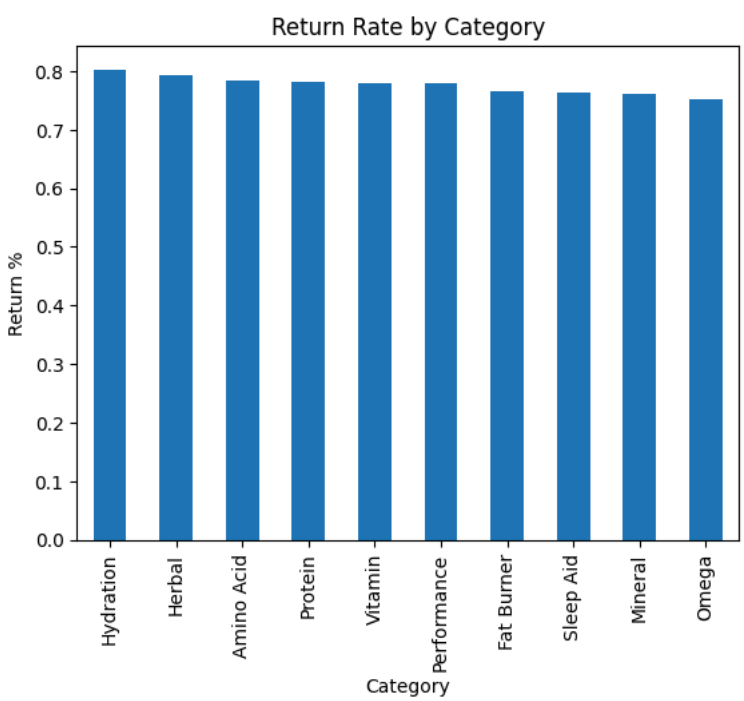
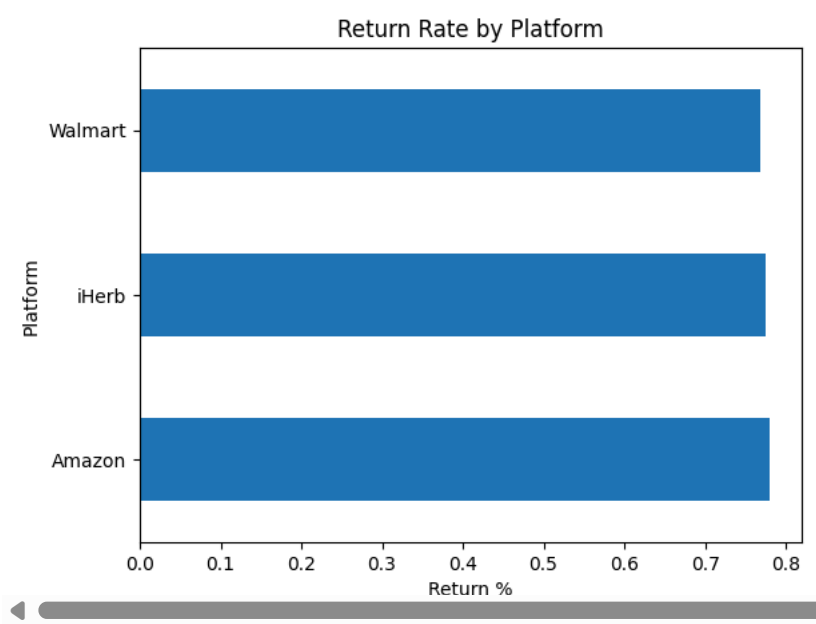
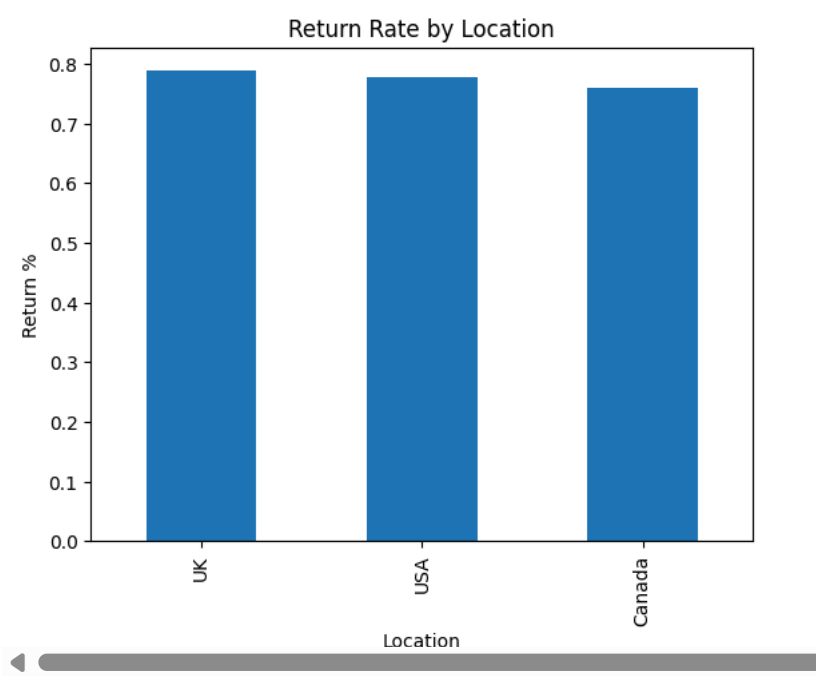
```
# Analyze return % per category and supplie


import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

df = pd.read_csv('/content/Supplement.csv')

df['Return_Flag'] = (df['Units_Returned'] > 0).astype(int)


category_return = df.groupby('Category')['Return_Flag'].mean().sort_values(ascending=False)
category_return.plot(kind='bar', title='Return Rate by Category')
plt.ylabel('Return %')
plt.show()
```



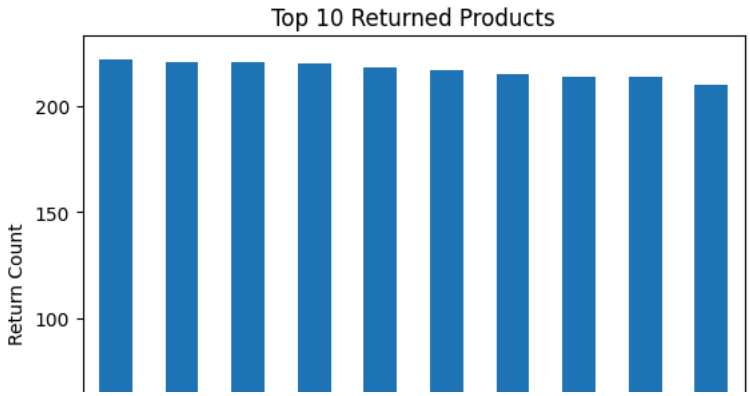

```
platform_return = df.groupby('Platform')['Return_Flag'].mean().sort_values(ascending=False)
platform_return.plot(kind='barh', title='Return Rate by Platform')
plt.xlabel('Return %')
plt.show()
```




```
location_return = df.groupby('Location')['Return_Flag'].mean().sort_values(ascending=False)
location_return.plot(kind='bar', title='Return Rate by Location')
plt.ylabel('Return %')
plt.show()
```




```
top_products = df[df['Return_Flag'] == 1]['Product'].value_counts().head(10)
top_products.plot(kind='bar', title='Top 10 Returned Products')
plt.ylabel('Return Count')
plt.show()
```


Top 10 Returned Products
Return Count
200
150
100