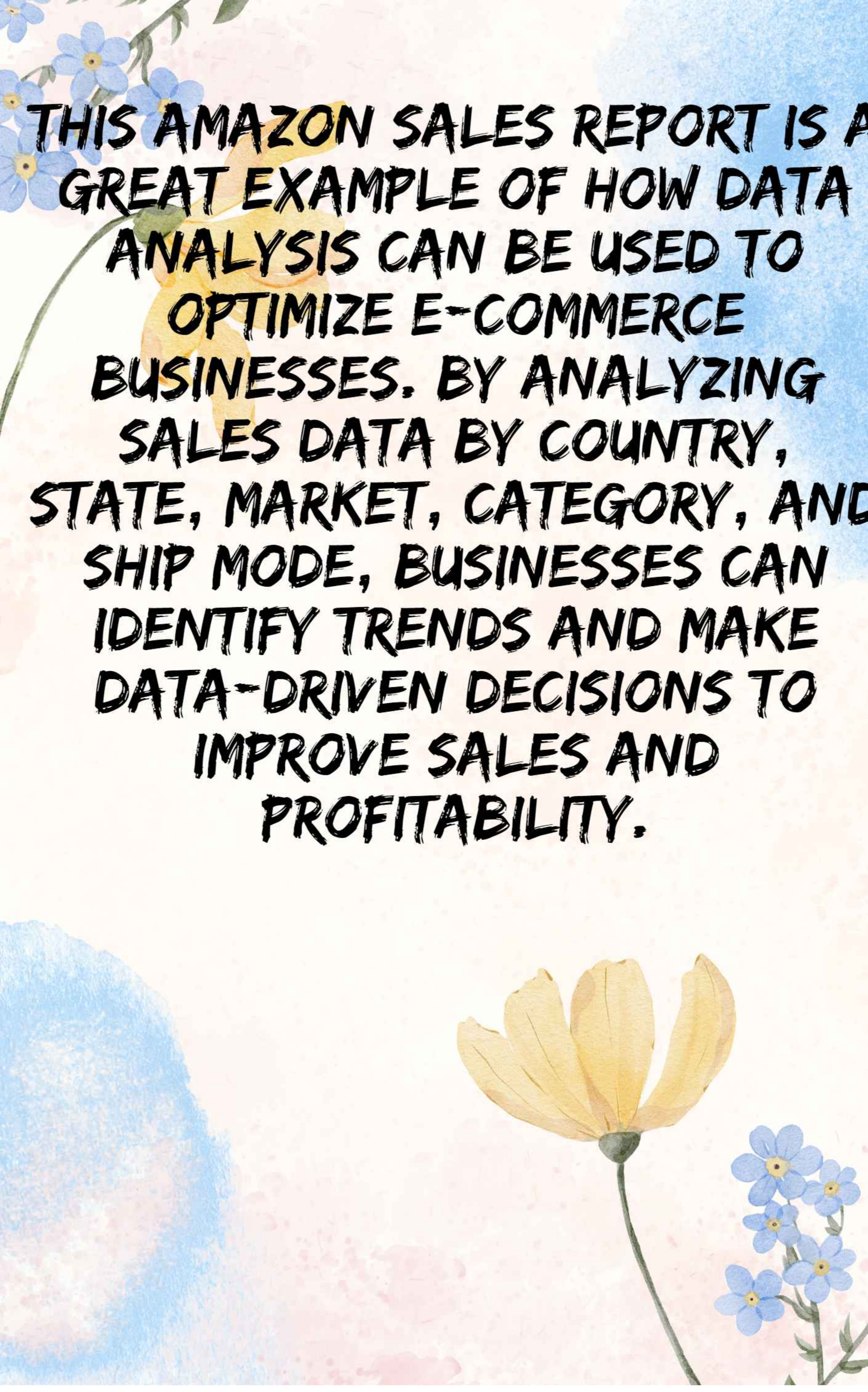
The background of the image is a dense, close-up shot of green fern fronds. The fronds are layered, creating a sense of depth and texture. The lighting is somewhat dim, giving the green a rich, slightly dark tone. The overall composition is vertical, with the text centered in the middle.

THE AMAZON DATA ANALYSIS

PRESENTED BY SONIA



THIS AMAZON SALES REPORT IS A GREAT EXAMPLE OF HOW DATA ANALYSIS CAN BE USED TO OPTIMIZE E-COMMERCE BUSINESSES. BY ANALYZING SALES DATA BY COUNTRY, STATE, MARKET, CATEGORY, AND SHIP MODE, BUSINESSES CAN IDENTIFY TRENDS AND MAKE DATA-DRIVEN DECISIONS TO IMPROVE SALES AND PROFITABILITY.

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Code

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In [4]:

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

In [2]:

dataset = pd.read_csv("D:\sonia\skill lync\Amazon Sales data.csv")

In [3]:

dataset

Out[3]:

	Region	Country	Item Type	Sales Channel	Order Priority	Order Date	Order ID	Ship Date	Units Sold	Unit Price	Unit Cost	Total Revenue	Total Cost	Profit
0	Australia and Oceania	Tuvalu	Baby Food	Offline	H	5/28/2010	669165933	6/27/2010	9925	255.28	159.42	2533654.00	1582243.50	951410.50
1	Central America and the Caribbean	Grenada	Cereal	Online	C	8/22/2012	963881480	9/15/2012	2804	205.70	117.11	576782.80	328376.44	248406.36
2	Europe	Russia	Office Supplies	Offline	L	05-02-2014	341417157	05-08-2014	1779	651.21	524.96	1158502.59	933903.84	224598.75
3	Sub-Saharan Africa	Sao Tome and Principe	Fruits	Online	C	6/20/2014	514321792	07-05-2014	8102	9.33	6.92	75591.66	56065.84	19525.82
4	Sub-Saharan Africa	Rwanda	Office Supplies	Offline	L	02-01-2014	115156712	02-06-2014	5062	651.21	524.96	3296125.02	2657217.52	639007.50

In [4]:

dataset.head(2)

Out[4]:

	Region	Country	Item Type	Sales Channel	Order Priority	Order Date	Order ID	Ship Date	Units Sold	Unit Price	Unit Cost	Total Revenue	Total Cost	Total Profit	Order Date2	Ship Date2
0	Australia and Oceania	Tuvalu	Baby Food	Offline	H	5/28/2010	669165933	6/27/2010	9925	255.28	159.42	2533654.0	1582243.50	951410.50	28-05-2010	27-06-2010
1	Central America and the Caribbean	Grenada	Cereal	Online	C	8/22/2012	963881480	9/15/2012	2804	205.70	117.11	576782.8	328376.44	248406.36	22-08-2012	15-09-2012

In [5]:

dataset.shape

Out[5]:

(100, 16)

In [6]:

dataset.isnull().sum()

Out[6]:

Region 0
Country 0
Item Type 0
Sales Channel 0


```
8]: dataset['Sales Channel'].value_counts()
```

```
8]: Sales Channel  
Offline    50  
Online     50  
Name: count, dtype: int64
```

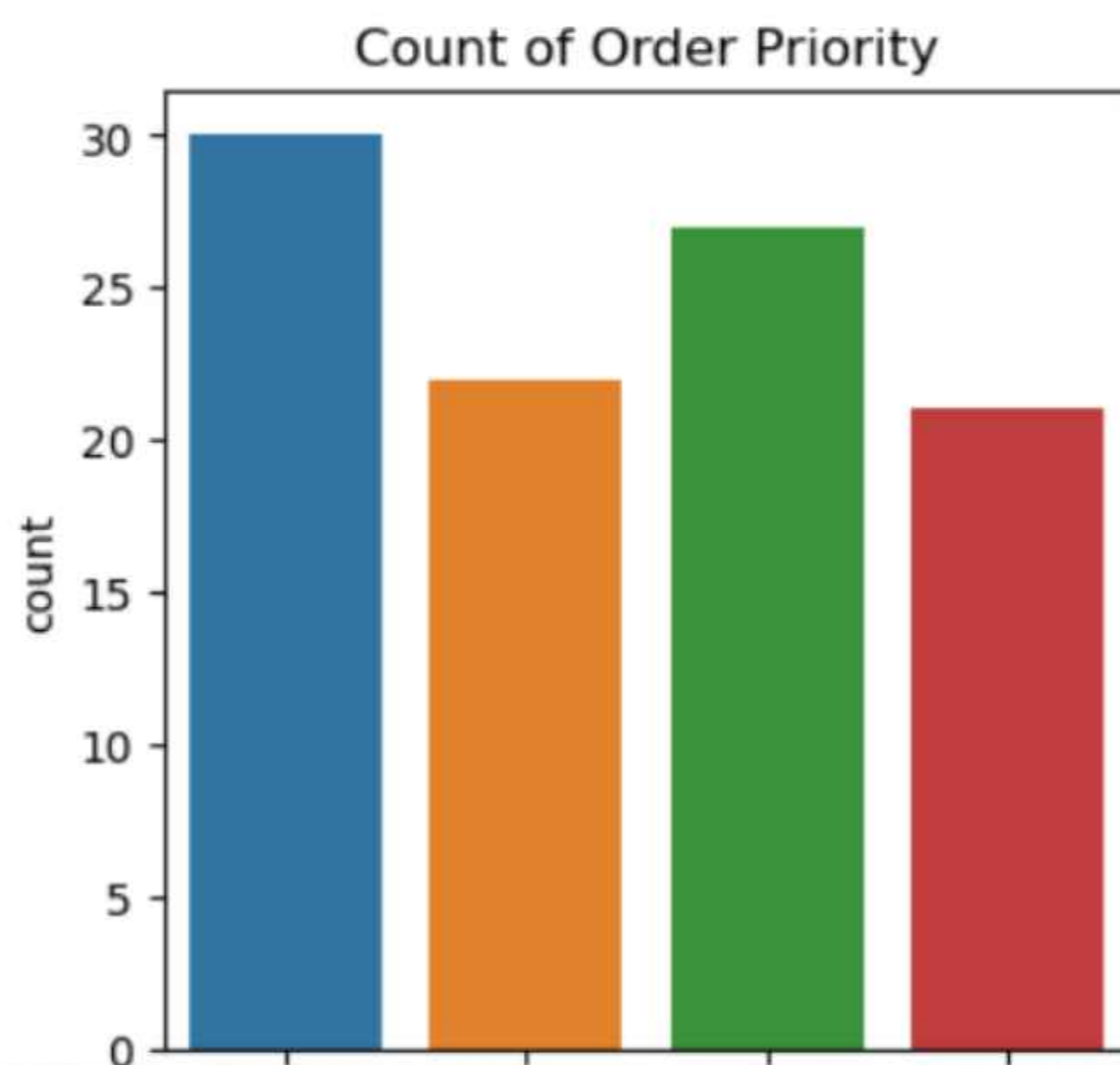
```
9]: dataset['Order Priority'].unique()
```

```
9]: array(['H', 'C', 'L', 'M'], dtype=object)
```

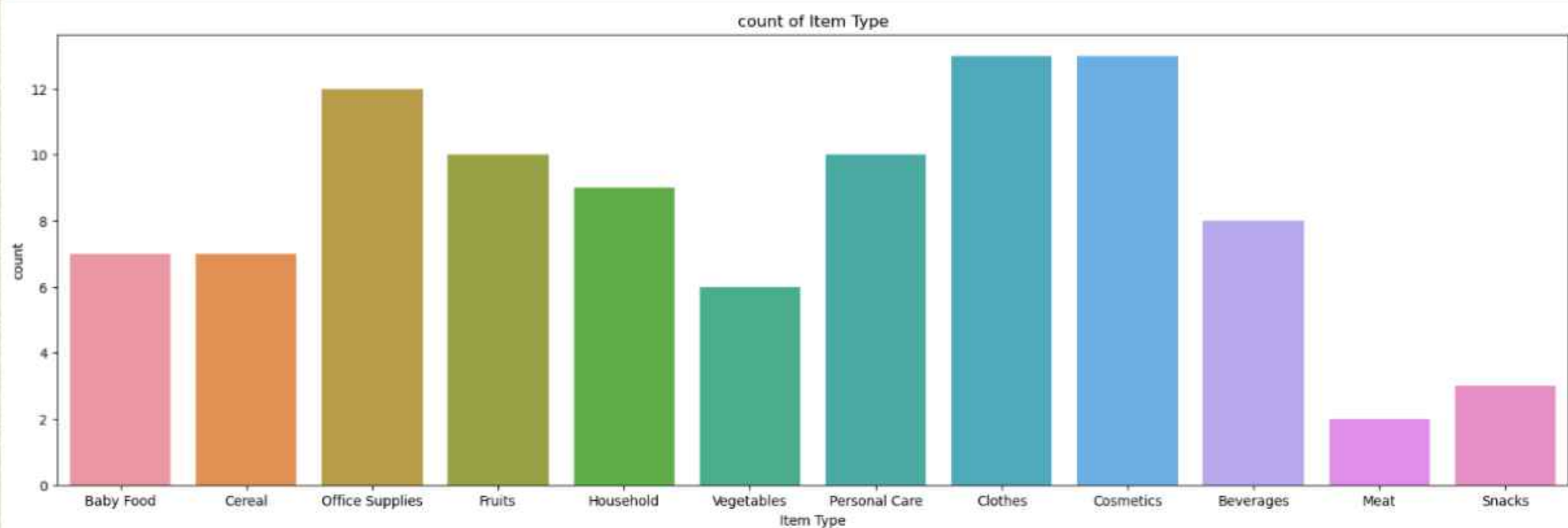
```
0]: dataset['Order Priority'].value_counts()
```

```
0]: Order Priority  
H      30  
L      27  
C      22  
M      21  
Name: count, dtype: int64
```

```
In [12]: # FROM THE BELOW CHART WE CAN SEE THAT MOST OF ORDER PRIORITY  
plt.figure(figsize=(4,4))  
sns.countplot(x="Order Priority",data =dataset)  
plt.title("Count of Order Priority")  
plt.savefig("count of Order Priority.jpg")  
plt.show()
```

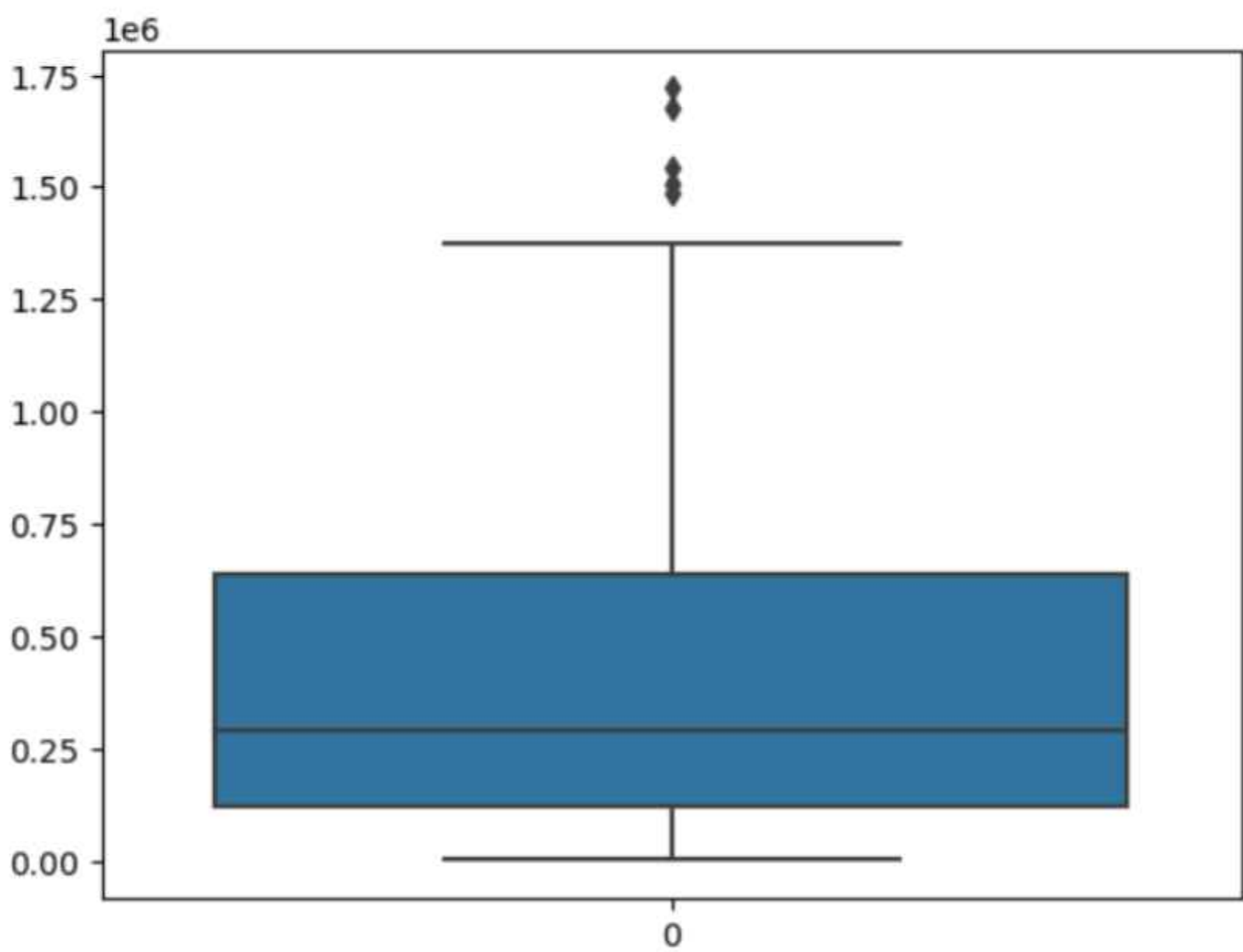



```
#FROM THE ELOW CHART WE CAN SEE THAT HOW MUCH ITEM TYPE CONTRIBUTE TO REVENUE GENERATE
plt.figure(figsize=(20,6))
sns.countplot(x="Item Type",data =dataset)
plt.title("count of Item Type")
plt.savefig("count of Item Type.jpg")
plt.show()
```

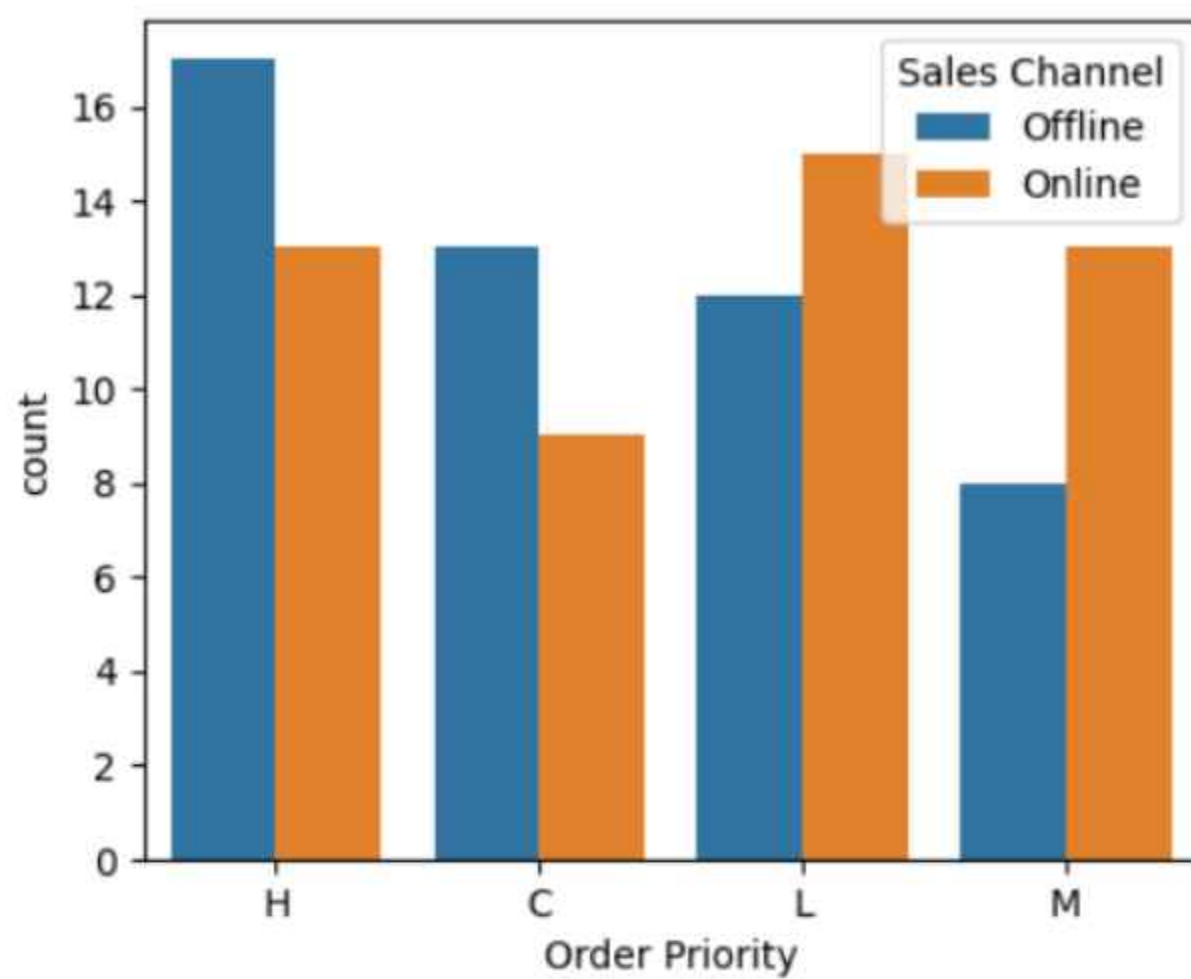


```
in [63]: # FROM THE BELOW CHART WE CAN ABOARSED ABOUT THE TOTAL PROFIT BY BOXPLOT
sns.boxplot(dataset['Total Profit'])
```

out[63]: <Axes: >




```
: # FROM THE BELOW CHART WE CAN SEE THAT H CONTRIBUTE MORE OFFLINE BUT L CONTRI MORE IN ONLINE
plt.figure(figsize=(5,4))
sns.countplot(x='Order Priority',data= dataset,hue="Sales Channel")
plt.show()
```



```
In [65]: # Top 5 most sold Item type
```

```
dataset['Item Type'].value_counts()[:5]
```

```
Out[65]: Item Type
Clothes          13
Cosmetics        13
Office Supplies  12
Fruits           10
Personal Care    10
Name: count, dtype: int64
```


HERE ARE SOME SPECIFIC INSIGHTS THAT CAN BE GLEANED FROM THIS REPORT

1.THERE ARE ARE 100 ROW AND 16
COLUMNS.

2 THE UNITED STATES IS AMAZON'S
LARGEST MARKET, ACCOUNTING FOR
42.46 OF TOTAL SALES.

3.THE TECHNOLOGY CATEGORY IS
AMAZON'S BEST-SELLING CATEGORY,
ACCOUNTING FOR 4.7 MILLION IN
SALES.

4. STANDARD CLASS IS THE MOST POPULAR SHIPPING MODE, ACCOUNTING FOR 7.58 MILLION IN SALES.

5. THERE ARE OFFLINE AND ONLINE CHANNEL

6. THERE ARE 4 UNIQUE ORDER PRIORITY H ,C L,M.

7. THERE IS H IS HIGHEST ORDER PRIORITY AND OFFLINE CHANNEL CONTRIBUTION.

8. CLOTHES AND COSMETICS BOTH ARE HIGHEST IN CONTRIBUTE OF REVENUE.

9. SUB-SHARAN AFRICA IS THE HIGHEST REGION OF OFFLINE CHANNEL AND TOTAL PROFIT AND ALSO REVENUE.

10. THA GAMBIA IS THE TOP SELLING COUNTRY.

11. THE HONDURAS COUNTRY GENERATE MAXIMUM REVENUE.

**BY ANALYZING THIS DATA, AMAZON
CAN**

**FOCUS MARKETING EFFORTS ON
COUNTRIES AND STATES WITH HIGH
GROWTH POTENTIAL.**

**DEVELOP NEW PRODUCTS IN
CATEGORIES THAT ARE IN HIGH
DEMAND.**

**OFFER FASTER OR CHEAPER SHIPPING
OPTIONS TO COMPETE MORE
EFFECTIVELY.**

- #OVER ALL CONCLUSION WE HAVE TO INCREASE OUR SALES IN NORTH AMERICA, LESS TOTAL PROFIT MARGIN IS FROM FRUIT ,
- #WE HAVE INCREASE AND TOP MOST PROFIT MARGIN IS FROM COSMETIC AND FROM HOUSEHOLD
- # WE OBSERVE THAT ORDER PRIORITY BY M IS THE OFFICE SUPPLER IS HIGHER THAN OTHER
- # IN SUB SAHARAN AFRICA REGION OFFILE SALE IS GREATER THAN ONLINE
- # ORDER PRIOINERITY BY H OFFLINE IS GREATER THAN ONLINE
- # THE HONDURAS COUNTRY GENERATE MAXIMUM REVENUE
- # THE SUB SAHARAN AFRICA GENERATE MAXIMUM REVENUE AND TOTAL PROFIT
- # THE GAMBIA IS THE TOP SELLING COUNTRY



THANK

YOU

