

task-2

April 22, 2025

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[4]: import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
import plotly.express as px
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[5]: df = pd.read_csv("Sales Records.csv")
df['Order Date'] = pd.to_datetime(df['Order Date'], errors='coerce')
```

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[6]: print(f"Total Revenue: ${df['Total Revenue'].sum():,.0f}")
print(f"Total Profit: ${df['Total Profit'].sum():,.0f}")
print(f"Units Sold: {df['Units Sold'].sum():,}")
```

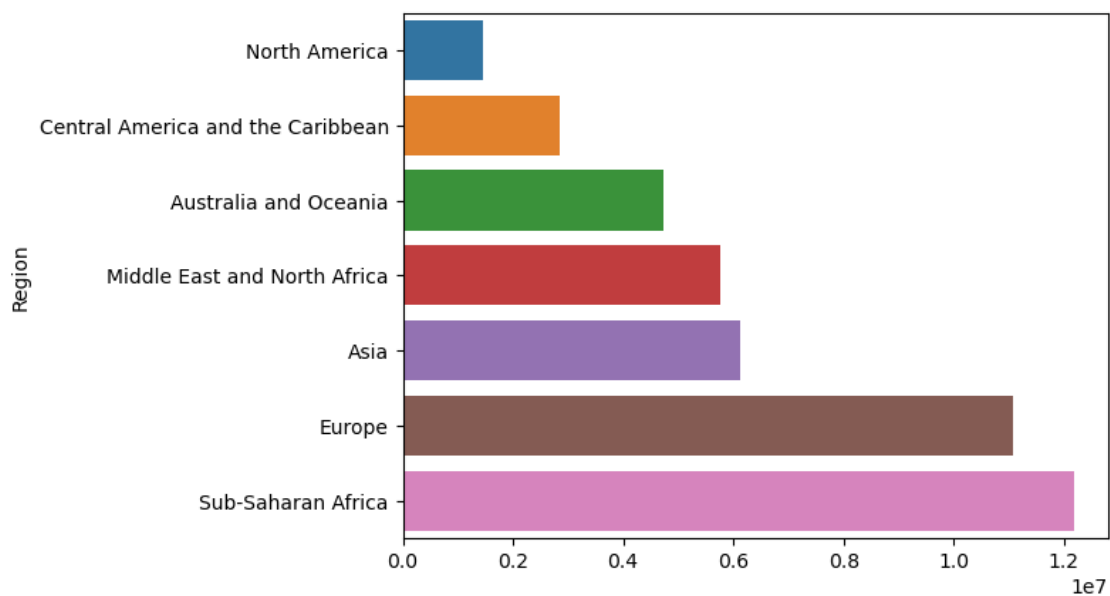
Total Revenue: \$137,348,768

Total Profit: \$44,168,198

Units Sold: 512,871

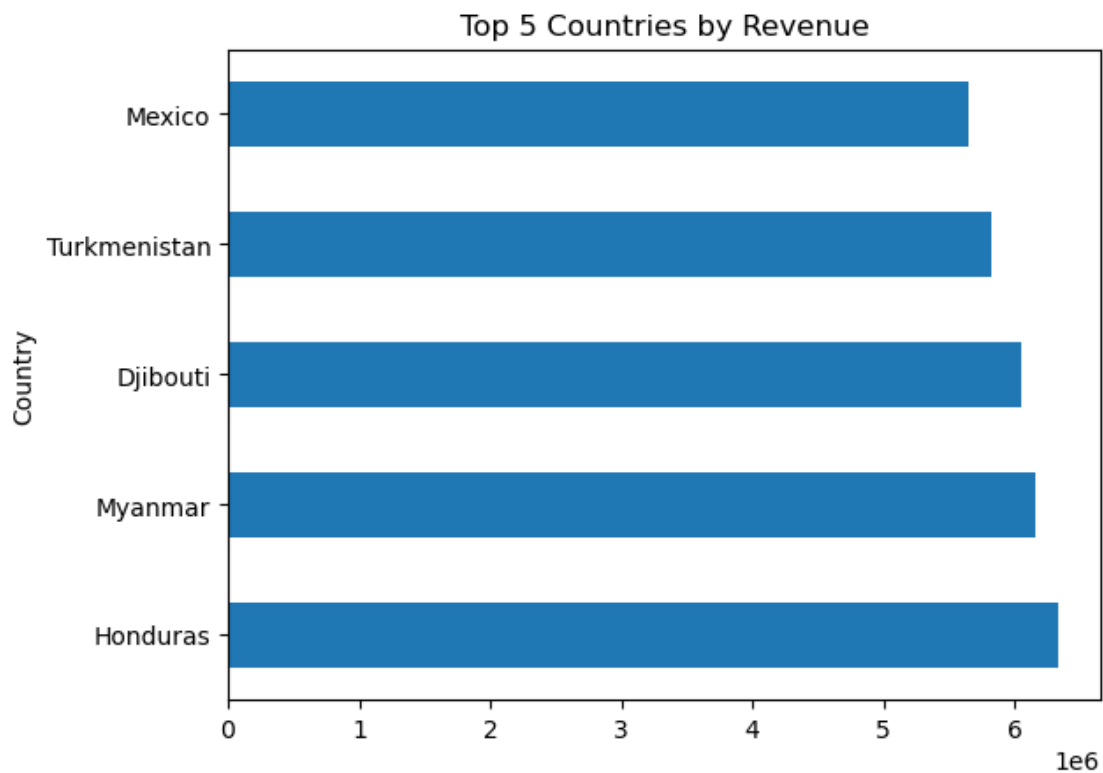
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[7]: region_profit = df.groupby('Region')['Total Profit'].sum().sort_values()
sns.barplot(x=region_profit.values, y=region_profit.index)
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[7]: <Axes: ylabel='Region'>
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[8]: top_countries = df.groupby('Country')['Total Revenue'].sum().
      ↪sort_values(ascending=False).head(5)
      top_countries.plot(kind='barh', title='Top 5 Countries by Revenue')
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[8]: <Axes: title={'center': 'Top 5 Countries by Revenue'}, ylabel='Country'>
```



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[9]: fig = px.line(df.groupby('Order Date')['Total Revenue'].sum().reset_index(),
                  x='Order Date', y='Total Revenue',
                  title="Sales Over Time")
      fig.show()
```

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[ ]:
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