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import matplotlib.pyplot as plt
import seaborn as sns

# Sample sales data
months = ['Jan', 'Feb', 'Mar', 'Apr', 'May']
sales_2019 = [1000, 1200, 900, 1100, 950]
sales_2020 = [900, 1100, 1000, 950, 1200]

# Line plot
plt.figure(figsize=(8, 5))
plt.plot(months, sales_2019, marker='o', label='2019')
plt.plot(months, sales_2020, marker='o', label='2020')
plt.xlabel('Months')
plt.ylabel('Sales')
plt.title('Sales Comparison (2019 vs 2020)')
plt.legend()
plt.show()

# Bar plot
plt.figure(figsize=(8, 5))
plt.bar(months, sales_2019, label='2019')
plt.bar(months, sales_2020, label='2020')
plt.xlabel('Months')
plt.ylabel('Sales')
plt.title('Sales Comparison (2019 vs 2020)')
plt.legend()
plt.show()

# Scatter plot
plt.figure(figsize=(8, 5))
plt.scatter(months, sales_2019, label='2019')
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plt.scatter(months, sales_2020, label='2020')
plt.xlabel('Months')
plt.ylabel('Sales')
plt.title('Sales Comparison (2019 vs 2020)')
plt.legend()
plt.show()

# Box plot
data = [sales_2019, sales_2020]
plt.figure(figsize=(8, 5))
plt.boxplot(data, labels=['2019', '2020'])
plt.ylabel('Sales')
plt.title('Sales Distribution (2019 vs 2020)')
plt.show()

# Histogram
plt.figure(figsize=(8, 5))
plt.hist(sales_2019, bins=10, alpha=0.5, label='2019')
plt.hist(sales_2020, bins=10, alpha=0.5, label='2020')
plt.xlabel('Sales')
plt.ylabel('Frequency')
plt.title('Sales Distribution (2019 vs 2020)')
plt.legend()
plt.show()

# Violin plot
plt.figure(figsize=(8, 5))
sns.violinplot(x=['2019']*len(sales_2019) +
                ['2020']*len(sales_2020), y=sales_2019+sales_2020)
plt.xlabel('Year')
plt.ylabel('Sales')
plt.title('Sales Distribution (2019 vs 2020)')
plt.show()

# Heatmap
sales_data = [sales_2019, sales_2020]
plt.figure(figsize=(8, 5))
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sns.heatmap(sales_data, annot=True, cmap='YlGnBu',
xticklabels=months, yticklabels=['2019', '2020'])
plt.xlabel('Months')
plt.ylabel('Year')
plt.title('Sales Heatmap (2019 vs 2020)')
plt.show()

# Pie chart
labels = ['Jan', 'Feb', 'Mar', 'Apr', 'May']
plt.figure(figsize=(8, 5))
plt.pie(sales_2019, labels=labels, autopct='%1.1f%%')
plt.title('Sales Distribution (2019)')
plt.show()

# Bar plot (horizontal)
plt.figure(figsize=(8, 5))
plt.barh(months, sales_2019, label='2019')
plt.barh(months, sales_2020, label='2020')
plt.xlabel('Sales')
plt.ylabel('Months')
plt.title('Sales Comparison (2019 vs 2020)')
plt.legend()
plt.show()

# Area plot
plt.figure(figsize=(8, 5))
plt.stackplot(months, sales_2019, sales_2020,
labels=['2019', '2020'])
plt.xlabel('Months')
plt.ylabel('Sales')
plt.title('Sales Comparison (2019 vs 2020)')
plt.legend()
plt.show()
```

OUTPUT:











