

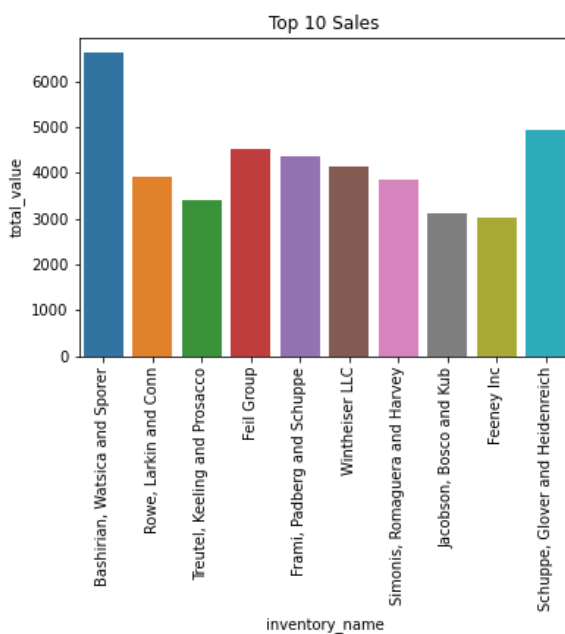
V. Database Access via Python

The database is accessed using Python and visualization of analyzed data is shown below. The connection of MySQL to Python is done using `mysql.connector`, followed by `cursor.execute` to run and fetch all from query, followed by converting the list into a dataframe using `pandas` library and using `matplotlib` to plot the graphs for the analytics.

```
sns.barplot(x='inventory_name', y='total_value', data=Sales_df)

# Add Labels and title to the plot
plt.xlabel('inventory_name')
plt.ylabel('total_value')
plt.title('Top 10 Sales')
plt.xticks(rotation=90)

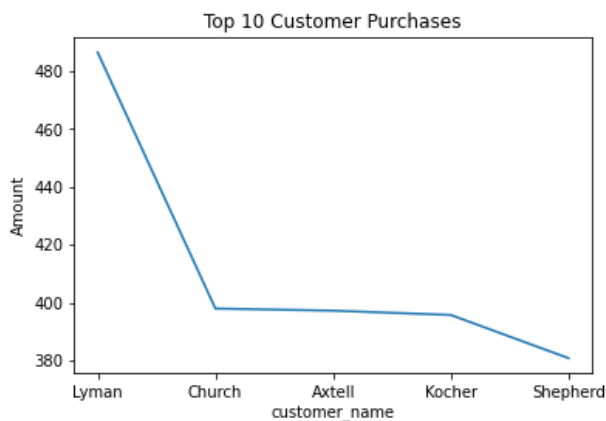
# Show the plot
plt.show()
```



```
# Create the line plot using Seaborn
sns.lineplot(x='customer_name', y='Amount', data=customers_df)

# Add Labels and title to the plot
plt.xlabel('customer_name')
plt.ylabel('Amount')
plt.title('Top 10 Customer Purchases')

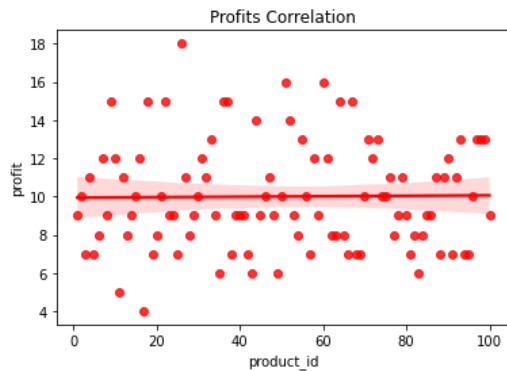
: Text(0.5, 1.0, 'Top 10 Customer Purchases')
```



```
# Create the scatter plot using Seaborn
sns.regplot(x='product_id', y='frequency', data=stock_df, color='red')

# Add Labels and title to the plot
plt.xlabel('product_id')
plt.ylabel('profit')
plt.title('Profits Correlation')

# Show the plot
plt.show()
```



VI. Database Access via Tableau and performing analysis

