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from sklearn.preprocessing import StandardScaler

customer_features = customer_data[['TotalValue', 'Quantity']]
scaler = StandardScaler()
customer_features_scaled = scaler.fit_transform(customer_features)
from sklearn.cluster import KMeans
from sklearn.metrics import davies_bouldin_score

kmeans = KMeans(n_clusters=5, random_state=42)
customer_data['Cluster'] = kmeans.fit_predict(customer_features_scaled)

db_index = davies_bouldin_score(customer_features_scaled, customer_data['Cluster'])
print(f'Davies-Bouldin Index: {db_index}')

plt.figure(figsize=(10, 6))
sns.scatterplot(x=customer_data['TotalValue'], y=customer_data['Quantity'],
hue=customer_data['Cluster'], palette='Set2')
plt.title('Customer Segmentation (Clustering)')
plt.show()

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