# Data Filtering

# 1. Extract all rows where sales are greater than 1000

high\_sales\_df = df[df['Sales'] > 1000]

print("\nRows where Sales are greater than 1000:")

print(high\_sales\_df)

# 2. Find all sales records for a specific region (e.g., "East")

east\_sales\_df = df[df['Region'] == 'East']

print("\nSales records for the East region:")

print(east\_sales\_df)

# Data Processing

# 3. Add a new column, Profit\_Per\_Unit, calculated as Profit / Quantity

df['Profit\_Per\_Unit'] = df['Profit'] / df['Quantity']

print("\nDataFrame after adding Profit\_Per\_Unit column:")

print(df)

# 4. Create another column, High\_Sales, which labels rows as Yes if Sales > 1000, else No

df['High\_Sales'] = df['Sales'].apply(lambda x: 'Yes' if x > 1000 else 'No')

print("\nDataFrame after adding High\_Sales column:")

print(df)