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import random

import csv

transactions=[]

for i in range(1,101):
    transaction_id=i
    transaction_date=f"2022-05-{random.randint(1,31):02d}"
    customer_id=random.randint(1,10)
    item_id=random.choice(["A","B","C"])
    item_price=round(random.uniform(10.0,100.0),2)
    quantity=random.randint(1,10)
    transactions.append([transaction_id,transaction_date,customer_id,item_id,item_price,quantity])

withopen('transactions.csv','w',newline='')ascsvfile:
    writer=csv.writer(csvfile)
    writer.writerow(["TransactionID","TransactionDate","CustomerID","ItemID","ItemPrice","Quantity"]
    )
    for transaction in transactions:
        writer.writerow(transaction)

import pandas as pd

df=pd.read_csv('transactions.csv')

df['ItemPrice']=pd.to_numeric(df['ItemPrice'])

df['Sales']=df['ItemPrice']*df['Quantity']
total_sales=df.groupby('CustomerID')['Sales'].sum().reset_index()
print(total_sales)

```