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import sqlite3
import pandas as pd

# File paths
data_0_path = '/mnt/data/shipping_data_0.csv'
data_1_path = '/mnt/data/shipping_data_1.csv'
data_2_path = '/mnt/data/shipping_data_2.csv'
db_path = '/mnt/data/shipment_database.db'

def read_csv(file_path):
    """Read a CSV file into a pandas DataFrame."""
    return pd.read_csv(file_path)

def insert_data_into_db(connection, table_name, data):
    """Insert data into the specified SQLite table."""
    data.to_sql(table_name, connection, if_exists='append', index=False)

def process_data():
    """Process and insert data into the SQLite database."""
    # Load data
    data_0 = read_csv(data_0_path)
    data_1 = read_csv(data_1_path)
    data_2 = read_csv(data_2_path)

    # Connect to the SQLite database
    connection = sqlite3.connect(db_path)

    try:
        # Step 1: Insert data_0 directly
        print("Inserting data_0...")
        insert_data_into_db(connection, "shipping_data_0", data_0)

        # Step 2: Combine data_1 and data_2 based on shipping identifier
        print("Combining data_1 and data_2...")
        combined_data = pd.merge(data_1, data_2, on="shipping_identifier", how="inner")

        # Calculate total quantity for each product
        combined_data["total_quantity"] = combined_data["quantity"]

        # Select required columns for insertion
        formatted_data = combined_data[[
            "shipping_identifier",
            "product_name",
            "total_quantity",
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            "origin",
            "destination"
        ]]

        # Step 3: Insert combined data into the database
        print("Inserting combined data...")
        insert_data_into_db(connection, "shipping_data_combined", formatted_data)

        print("Data insertion complete.")
    except Exception as e:
        print(f"Error occurred: {e}")
    finally:
        connection.close()

if __name__ == "__main__":
    process_data()
```