```python
import pandas as pd
import sqlite3

# Define file paths
spreadsheet_0_path = 'spreadsheet_0.xlsx'
spreadsheet_1_path = 'spreadsheet_1.xlsx'
spreadsheet_2_path = 'spreadsheet_2.xlsx'
db_path = 'database.sqlite'

# Connect to SQLite database
conn = sqlite3.connect(db_path)
cursor = conn.cursor()

def insert_data_from_spreadsheet_0(df):
    # Insert data from spreadsheet_0 into the database
    for index, row in df.iterrows():
        cursor.execute('''
            INSERT INTO Table0 (column1, column2, column3) VALUES (?, ?, ?)
        ''', (row['column1'], row['column2'], row['column3']))
    conn.commit()

def process_and_insert_data_from_spreadsheet_1_and_2(df1, df2):
    # Create a dictionary to map shipping identifiers to origin and destination
    shipping_info = {}
    for index, row in df2.iterrows():
        shipping_info[row['shipping_id']] = (row['origin'], row['destination'])

    # Process spreadsheet_1 data
    for index, row in df1.iterrows():
        product_id = row['product_id']
        quantity = row['quantity']
        shipping_id = row['shipping_id']

        if shipping_id in shipping_info:
            origin, destination = shipping_info[shipping_id]
            cursor.execute('''
                INSERT INTO Shipments (product_id, quantity, origin, destination) VALUES (?, ?, ?, ?)
            ''', (product_id, quantity, origin, destination))

    conn.commit()

def main():
    # Read spreadsheets
    df0 = pd.read_excel(spreadsheet_0_path)
    df1 = pd.read_excel(spreadsheet_1_path)
    df2 = pd.read_excel(spreadsheet_2_path)

    # Insert data from spreadsheet_0
    insert_data_from_spreadsheet_0(df0)

    # Process and insert data from spreadsheets 1 and 2
    process_and_insert_data_from_spreadsheet_1_and_2(df1, df2)

    # Close database connection
    conn.close()

if __name__ == '__main__':
    main()
```