

Python Script to Populate SQLite Database

```
import sqlite3

import pandas as pd

# Database setup

db_path = "walmart_shipping.db"

conn = sqlite3.connect(db_path)

cursor = conn.cursor()

def insert_spreadsheet_0(spreadsheet_path):

    """Insert data from spreadsheet 0 directly into the database."""

    df = pd.read_csv(spreadsheet_path)

    for _, row in df.iterrows():

        cursor.execute(

            "INSERT INTO products (product_name, manufacturer, weight, flavor,

target_health_condition) VALUES (?, ?, ?, ?, ?)",

            (row['Name'], row['Manufacturer'], row['Weight'], row['Flavor'],

row['HealthCondition']))

        )

    conn.commit()

def insert_spreadsheet_1_and_2(spreadsheet_1_path, spreadsheet_2_path):

    """Process data from spreadsheets 1 and 2 and insert into the database."""

    df1 = pd.read_csv(spreadsheet_1_path)

    df2 = pd.read_csv(spreadsheet_2_path)
```

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shipments = {}

for _, row in df2.iterrows():

    shipments[row['ShippingID']] = (row['Origin'], row['Destination'])

for _, row in df1.iterrows():

    shipping_id = row['ShippingID']

    product = row['Product']

    quantity = row['Quantity']

    origin, destination = shipments[shipping_id]

    cursor.execute(

        "INSERT INTO shipments (origin, destination) VALUES (?, ?)",

        (origin, destination)

    )

    shipment_id = cursor.lastrowid

    cursor.execute(

        "INSERT INTO shipment_products (shipment_id, product_name, quantity) VALUES

(?, ?, ?)",

        (shipment_id, product, quantity)

    )

    conn.commit()

# Paths to spreadsheets

spreadsheet_0_path = "spreadsheet_0.csv"

spreadsheet_1_path = "spreadsheet_1.csv"

spreadsheet_2_path = "spreadsheet_2.csv"

```

```
# Insert data into the database
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```
insert_spreadsheet_0(spreadsheet_0_path)
```

```
insert_spreadsheet_1_and_2(spreadsheet_1_path, spreadsheet_2_path)
```

```
# Close the database connection
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```
conn.close()
```