

```
import pandas as pd
```

```
import sqlite3
```

```
SPREADSHEET_0 = "spreadsheet_0.xlsx"
```

```
SPREADSHEET_1 = "spreadsheet_1.xlsx"
```

```
SPREADSHEET_2 = "spreadsheet_2.xlsx"
```

```
DB_FILE = "shipping_data.db"
```

```
spreadsheet_0 = pd.read_excel(SPREADSHEET_0)
```

```
spreadsheet_1 = pd.read_excel(SPREADSHEET_1)
```

```
spreadsheet_2 = pd.read_excel(SPREADSHEET_2)
```

```
conn = sqlite3.connect(DB_FILE)
```

```
cursor = conn.cursor()
```

```
def insert_spreadsheet_0(data):
```

```
    data.to_sql('spreadsheet_0', conn, if_exists='replace', index=False)
```

```
    print("Inserted data from Spreadsheet 0.")
```

```
def process_and_insert_spreadsheet_1_and_2(data1, data2):
```

```
    merged_data = pd.merge(data1, data2, on="ShippingID", how="inner")
```

```
    merged_data["TotalQuantity"] = merged_data.groupby(["ShippingID", "ProductName"])["Quantity"].sum()
```

```
    deduped_data = merged_data.drop_duplicates(subset=["ShippingID", "ProductName"])
```

```
    deduped_data = deduped_data[["ShippingID", "ProductName", "TotalQuantity", "Origin", "Destination"]]
```

```
    deduped_data.rename(columns={
```

```
        "ShippingID": "shipping_id",
```

```
        "ProductName": "product_name",

        "TotalQuantity": "quantity",

        "Origin": "origin",

        "Destination": "destination"

    }, inplace=True)

    deduped_data.to_sql('spreadsheet_1_and_2', conn, if_exists='replace', index=False)

    print("Inserted data from Spreadsheets 1 and 2.")

if __name__ == "__main__":

    insert_spreadsheet_0(spreadsheet_0)

    process_and_insert_spreadsheet_1_and_2(spreadsheet_1, spreadsheet_2)

    conn.commit()

    conn.close()

    print("Data insertion complete.")
```