Task 4

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import csv
import sqlite3

# CREATE TABLE
def create_table(cursor):
        # CREATE A TABLE FOR DATA IN DATA_0
        cursor.execute("""
        CREATE TABLE IF NOT EXISTS shipping_data_0 (
                origin_warehouse TEXT,
                destination_store TEXT,
                product TEXT,
                on_time BOOLEAN,
                product_quantity INTEGER,
                driver_identifier TEXT
                )
        """)

# CREATE A TABLE FOR DATA IN DATA_1 AND DATA_2
        cursor.execute("""
        CREATE TABLE IF NOT EXISTS shipping_data_1 (
                shipment_identifier TEXT,
                product TEXT,
                on_time TEXT,
                origin_warehouse TEXT,
                destination_store TEXT
                )
        """)

# INSERT DATA_0
def insert_data_0(cursor):
        with open('data/shipping_data_0.csv', 'r') as file:
                csv_reader = csv.reader(file)
                next(csv_reader) # skip the first line
                for row in csv_reader:
                        origin_warehouse, destination_store, product, on_time,
product_quantity, driver_identifier = row
                        cursor.execute("INSERT INTO shipping_data_0 (origin_warehouse,
destination_store, product, on_time, product_quantity, driver_identifier) VALUES (?, ?,
?, ?, ?, ?)",
                                (origin_warehouse, destination_store, product,
on_time, product_quantity, driver_identifier))

# INSERT DATA_1 AND DATA_2
def insert_data_2(cursor):
        with open('data/shipping_data_2.csv', 'r') as file:
                csv_reader = csv.reader(file)
                next(csv_reader) # skip the first line
                data_2_rows = [row for row in csv_reader] # put the data into variable
"data_2_rows"

        with open('data/shipping_data_1.csv', 'r') as file:
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                csv_reader = csv.reader(file)
                next(csv_reader)
                for row in csv_reader:
                        shipment_identifier, product, on_time = row
                        matching_rows = [r for r in data_2_rows if r[0] ==
shipment_identifier] # if shipment_identifier matches in a specific row in data_2
                        if matching_rows: # if match exists
                                origin_warehouse, destination_store, driver_identifier
= matching_rows[0][1], matching_rows[0][2], matching_rows[0][3]
                                cursor.execute("INSERT INTO shipping_data_1
(shipment_identifier, product, on_time, origin_warehouse, destination_store) VALUES (?,
?, ?, ?, ?)",
                                               (shipment_identifier, product, on_time,
origin_warehouse, destination_store))



if __name__ == "__main__":
        con = sqlite3.connect('shipment_database.db')
        cur = con.cursor()

        create_table(cur)
        insert_data_0(cur)
        insert_data_2(cur)

        con.commit()
        con.close()
```