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import sqlite3
import csv
class DatabaseConnector:
  def __init__(self, database_file):
    self.connection = sqlite3.connect(database_file)
    self.cursor = self.connection.cursor()
  def populate(self, folder):
    with open(f"{folder}/shipping_data_0.csv") as file_0:
       with open(f"{folder}/shipping_data_1.csv") as file_1:
          with open(f"{folder}/shipping_data_2.csv") as file_2:
            reader_0 = csv.reader(file_0)
            reader 1 = csv.reader(file 1)
            reader_2 = csv.reader(file_2)
            self.populate_shipping_data_1(reader_0)
            self.populate_shipping_data_2(reader_1, reader_2)
  def populate_shipping_data_1(self, reader_0):
    for row_idx, row in enumerate(reader_0):
       if row idx > 0:
          product name = row[2]
         product_quantity = row[4]
         origin = row[0]
         destination = row[1]
         print(product_name, product_quantity, origin, destination)
         self.insert_product(product_name)
         self.insert_shipment(product_name, product_quantity, origin, destination)
  def populate_shipping_data_2(self, reader_1, reader_2):
    shipment info = {}
    for row_idx, row in enumerate(reader_2):
       if row_idx > 0:
         shipment_identifier = row[0]
         origin = row[1]
         destination = row[2]
         shipment_info[shipment_identifier] = {
            "origin": origin,
            "destination": destination,
            "products": {}
          }
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for row\_idx, row in enumerate(reader\_1):

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if row idx > 0:
         shipment identifier = row[0]
         product_name = row[1]
         products = shipment_info[shipment_identifier]["products"]
         products[product_name] = products.get(product_name, 0) + 1
    for shipment_identifier, shipment in shipment_info.items():
       origin = shipment info[shipment identifier]["origin"]
       destination = shipment_info[shipment_identifier]["destination"]
       for product_name, product_quantity in shipment["products"].items():
         self.insert product(product name)
         self.insert_shipment(product_name, product_quantity, origin, destination)
  def insert_product(self, product_name):
    query = "
       INSERT OR IGNORE INTO product(name)
       VALUES(?);
    self.cursor.execute(query, (product_name,))
    self.connection.commit()
  def insert_shipment(self, product_name, product_quantity, origin, destination):
    query = "
       SELECT id
       FROM product
       WHERE product.name = ?;
    self.cursor.execute(query, (product_name,))
    product id = self.cursor.fetchone()[0]
    query = "
       INSERT OR IGNORE INTO shipment(product_id, quantity, origin, destination)
       VALUES(?,?,?,?);
    self.cursor.execute(query, (product_id, product_quantity, origin, destination))
    self.connection.commit()
  def close(self):
    self.connection.close()
if __name__ == '__main__':
  db_connector = DatabaseConnector("shipment_database.db")
  db_connector.populate("./data")
  db_connector.close()
```