## Created a function read\_insert\_direct to insert data from csv file

Extracting the data from the CSV file and loading the data into a dataframe

```
def read_insert_direct(path, query, table):
       first = True
       with open(path, newline='') as csv file:
4
           data = csv.reader(csv_file, delimiter=',', quotechar='"')
5
6
           for row in data:
               if not first:
8
                  cursor_db.execute(query, row)
9
               first = False
10
       conn db.commit()
11
12
       display_table(table, conn_db, rows = 1)
```

#### 1. Customer Table Creation

```
1 sql = ( """
             CREATE TABLE customer
              customer_id INT NOT NULL AUTO_INCREMENT,
customer_first_name CHAR(30) NOT NULL,
customer_last_name CHAR(30) NOT NULL,
6
              street address VARCHAR(40) NOT NULL,
              city CHAR(30) NOT NULL,
              state CHAR(30) NOT NULL,
10
             country CHAR(30) NOT NULL,
11
              postal_code INT NOT NULL,
12
               segment CHAR(15) NOT NULL,
               CONSTRAINT customer_pk PRIMARY KEY (customer_id)
13
14
15
16
          )
18 make_table('customer', sql, cursor_db);
19 cursor_db.execute('ALTER TABLE customer AUTO_INCREMENT = 100000;')
```

### **Data Insertion in Customer Table**

#### 2. Product Table Creation

```
create table product
product_id VARCHAR(15) NOT NULL,
product_name VARCHAR(255) NOT NULL,
base_price FLOAT NOT NULL,
quantity_available INT NOT NULL,
category_id CHAR(3) NOT NULL,
distributor_id INT NOT NULL,
constraint product_pk PRIMARY KEY (product_id),
CONSTRAINT product_pk PRIMARY KEY (distributor_id) REFERENCES distributor(distributor_id),
CONSTRAINT product_fk1 FOREIGN KEY (category_id) REFERENCES category(category_id)
);
constraint product_fk2 FOREIGN KEY (category_id) REFERENCES category(category_id)
);
make_table('product', sql, cursor_db)
```

### **Data Insertion in Product Table**

```
read_insert_direct('Dataset/product.csv', sql_p, 'product')
```

## 3. Ship\_mode Table Creation

# Data Insertion in Ship\_mode Table

## 4. Orders Table Creation

```
def transform(date):
    month, day, year = date.split('/')
    if len(month) == 1:
        month = '0' + month
    if len(day) == 1:
        day = '0' + day
    if len(year) == 2:
        year = '20' + year
    return year + '-' + month + '-' + day
```

```
def read_insert_orders(path, query, table):
    first = True
    with open(path, newline='') as csv_file:
        data = csv.reader(csv_file, delimiter=',', quotechar='"')

for row in data:
    if not first:
        row[0] = transform(row[0])
        row[3] = transform(row[3])
        cursor_db.execute(query, row)
    first = False
    conn_db.commit()

display_table(table, conn_db, rows = 1)
```

## **Data Insertion in Orders Table**

# 5. Category Table Creation

# **Data Insertion in Category Table**

### 6. Feedback Table Creation

#### **Data Insertion in Feedback Table**

### 7. Distributor Table Creation

#### **Data Insertion in Distributor Table**

#### 8. Website Table Creation

### **Data Insertion in Website Table**

```
sql_w = ( """
    INSERT INTO website
    VALUES (%s, %s)
    """
    )

read_insert_direct('Dataset/website.csv', sql_w, 'website')
```

# 9. Shopping Cart Table Creation

# **Data Insertion in Shopping Cart Table**

#### 10. Listed Table Creation

```
def read_insert_listed(path, query, table):
        first = True
        with open(path, newline='') as csv_file:
            data = csv.reader(csv_file, delimiter=',', quotechar='"')
            for row in data:
                if not first:
                    pid = row[0]
                     webn = row[1]
                    sql = (f"SELECT base_price FROM product WHERE product_id = '{pid}'")
10
                    cursor_db.execute(sql)
out = cursor_db.fetchall()
base_price = out[0][0]
11
12
13
                     sql = (f"SELECT listing_fee FROM website WHERE website_name = '{webn}'")
14
                     cursor db.execute(sql)
15
16
                     out = cursor_db.fetchall()
                     listf = out[0][0]
17
                    price = base_price + listf
18
                     cursor_db.execute(query, [row[0], row[1], price])
19
20
                first = False
21
        conn_db.commit()
22
        display_table(table, conn_db, rows = 1)
```

### **Data Insertion in Listed Table**