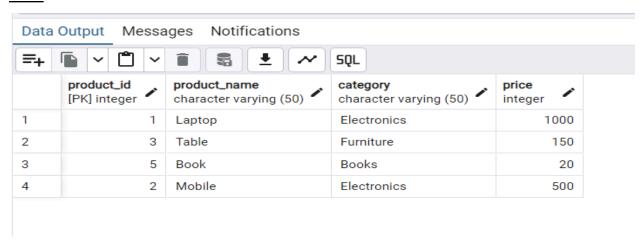
## **ASSIGNMENT 1:**

#### **EXERCISE:**

#### Create two tables

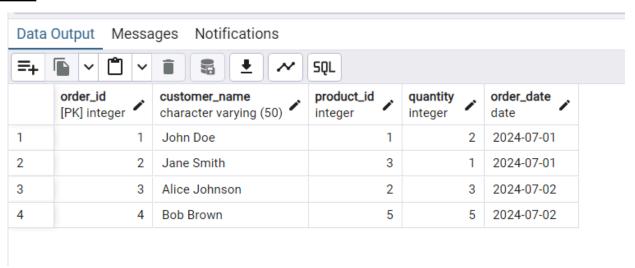
1. Products: columns (product\_id,product\_name,category and price)

### table



2. Orders: columns( order\_id, customer\_name, product\_id, quantity, order\_date)

### <u>Table</u>



#### **QUESTIONS:**

1. perform CRUD

```
Query
```

```
CREATE table Products(
       product_id int primary key,
       product_name varchar(50),
       category varchar(50), price int
);
CREATE table Orders(
       order_id int primary key,
       customer_name varchar(50),
       product_id int,
       quantity int,
       order_date date
);
INSERT INTO Products (product_id, product_name, category, price)
VALUES
(1, 'Laptop', 'Electronics', 1000),
(2, 'Smartphone', 'Electronics', 500),
(3, 'Table', 'Furniture', 150),
(4, 'Chair', 'Furniture', 75),
(5, 'Book', 'Books', 20);
update products
       set product_name='Mobile'
       where product_id=2;
delete from products
       where product_name='Chair';
select * from products;
INSERT INTO Orders (order_id, customer_name, product_id, quantity, order_date)
VALUES
```

```
(1, 'John Doe', 1, 2, '2024-07-01'),
```

- (2, 'Jane Smith', 3, 1, '2024-07-01'),
- (3, 'Alice Johnson', 2, 3, '2024-07-02'),
- (4, 'Bob Brown', 5, 5, '2024-07-02'),
- (5, 'Charlie Black', 4, 4, '2024-07-03');

## update orders

```
set customer_name = 'Ganesh Saud' where order_id=5;
```

delete from orders

where product\_id=4;

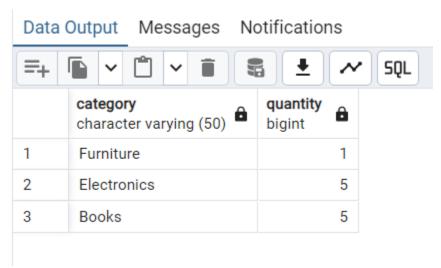
select \* from orders;

2. Calculate the total quantity ordered for each product category in the orders table.

### Query

SELECT category, SUM(quantity) AS quantity
FROM products p JOIN orders o ON p.product\_id=o.product\_id
GROUP BY category;

# **Output**



3. Find categories where the total number of products ordered is greater than 4.

# Query

SELECT category
FROM Orders o JOIN Products p ON o.product\_id = p.product\_id
GROUP BY category
HAVING SUM(quantity) > 4;

## <u>Output</u>

