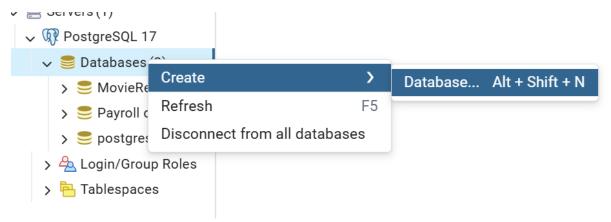
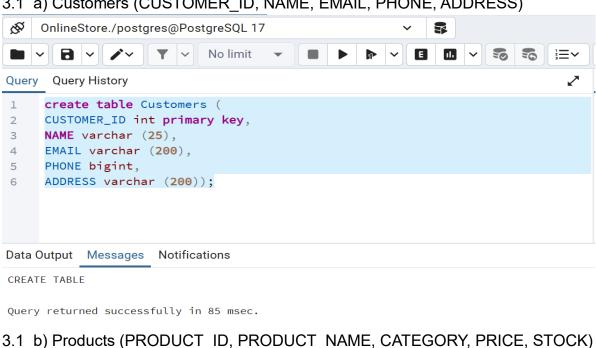
3.1 Database Creation: Create a database named OnlineStore.



Create tables:

3.1 a) Customers (CUSTOMER_ID, NAME, EMAIL, PHONE, ADDRESS)



```
Create table Products (
21
     PRODUCT_ID varchar(10) primary key ,
22
    PRODUCT_NAME varchar(200),
23
    CATEGORY varchar(25),
24
25
    PRICE decimal,
     STOCK int);
26
27
Data Output Messages Notifications
```

CREATE TABLE

Query returned successfully in 59 msec.

3.1 c) Orders (ORDER_ID, CUSTOMER_ID, PRODUCT_ID, QUANTITY, ORDER_DATE)

```
Create table Orders (
28
       ORDER_ID int,
 29
       CUSTOMER_ID int,
 30
       PRODUCT_ID varchar(10),
 31
 32
       QUANTITY int,
 33
       ORDER_DATE DATE,
       foreign key (CUSTOMER_ID) references Customers(CUSTOMER_ID),
 34
       foreign key (PRODUCT_ID) references Products(PRODUCT_ID));
 35
 Data Output Messages Notifications
 CREATE TABLE
 Query returned successfully in 86 msec.
```

3.2 Data Creation:

Insert sample data for customers.

```
Insert into Customers values
8
      (211, 'Shankar', 'Shankar@gmail.com', 9176221122, 'Madavaram, Chennai'),
9
10
      (222, 'Mukesh', 'Mukesh@gmail.com', 9176220413, 'Kodambakkam, Chennai'),
11
      (233, 'Praveen', 'Praveen@gmail.com', 9176220474, 'Anna Nagar, Chennai'),
      (244, 'Shrinath', 'Shrinath@gmail.com', 9176110415, 'Saidapet, Chennai'),
12
      (255, 'Vignesh', 'Vignesh@gmail.com', 9176239116, 'velachery, Chennai'),
13
14
      (266, 'Vimalrka', 'Vimalrka@gmail.com', 9135674171, 'Tambaram, Chennai'),
      (277, 'Kamaraj', 'Kamaraj@gmail.com', 9176220418, 'Medavakkam, Chennai'),
15
16
      (288, 'Sekar', 'Sekar@gmail.com', 9176231418, 'Anna Nagar, Chennai'),
      (299, 'Lokesh', 'Lokesh@gmail.com', 9176276751, 'Anna Nagar, Chennai'),
17
18
      (311, 'Joshua', 'Joshua@gmail.com', 9176220498, 'velachery, Chennai');
Data Output Messages Notifications
INSERT 0 10
Query returned successfully in 151 msec.
```

Insert sample data for products

```
36
      Insert into Products values
37
38
      ('BOCK2QHML3','SKY-TOUCH Dog Treats: 400g Chicken Wrapped','PET_FOOD',21
      ('BOC3RJVT3M', 'SKY-TOUCH Auto Close Safety Baby Gate, Extra Wide Child G
40
      ('B0B9J4577K','SKY-TOUCH Baby Proofing Plug Covers,Plug Socket Covers,Ou
41
      ('BODHLJDDJ3','SKY-TOUCH 80 Pieces Baby Disposable Changing Mats,Waterpr
      ('BOCJM5X73Z','SKY-TOUCH Auto Close Safety Baby Gate','TEMPORARY_GATE',9
42
      ('BOCSK48PWX', 'SKY-TOUCH Auto Close Safety Baby Gate, 80.00 x 6.00 x 75.
43
      ('B09QQVGT3','SKY TOUCH 5pcs Muslin Baby Washcloths and Towels, Natural
44
      ('BODJ6TT47R','SKY-TOUCH Handprint and Footprint Frame Makers Kit, Newbo
45
      ('BOCKXCDW97','SKY-TOUCH Auto Close Safety Baby Gate, Extra Wide Child G
Data Output Messages Notifications
INSERT 0 9
Query returned successfully in 81 msec.
```

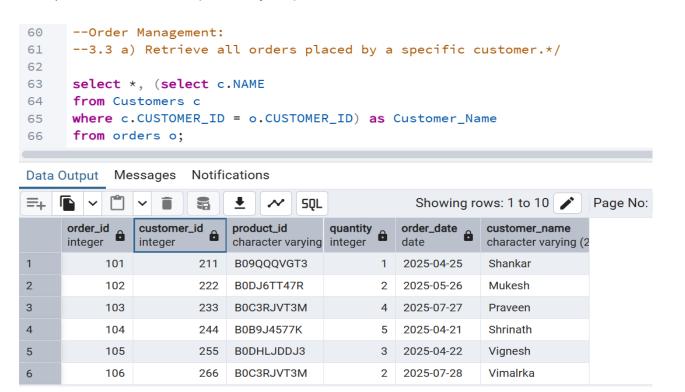
Insert sample data for orders.

```
Insert into Orders values
48
      (101,211, 'B09QQVGT3',1, '2025-04-25'),
49
50
      (102,222, 'B0DJ6TT47R',2, '2025-05-26'),
      (103,233, 'B0C3RJVT3M',4, '2025-07-27'),
51
      (104,244, 'B0B9J4577K',5, '2025-04-21'),
52
53
      (105,255, 'B0DHLJDDJ3',3, '2025-04-22'),
      (106,266, 'BOC3RJVT3M',2, '2025-07-28'),
54
      (107,277, 'B0CSK48PWX',1, '2025-05-31'),
55
      (108,288, 'BOC3RJVT3M',2, '2025-03-18'),
56
      (109,299, 'B0B9J4577K',3, '2025-02-08'),
57
      (110,311, 'B0C3RJVT3M',4, '2025-05-30');
58
Data Output
           Messages
                      Notifications
INSERT 0 10
```

Query returned successfully in 90 msec.

3.3 Order Management:

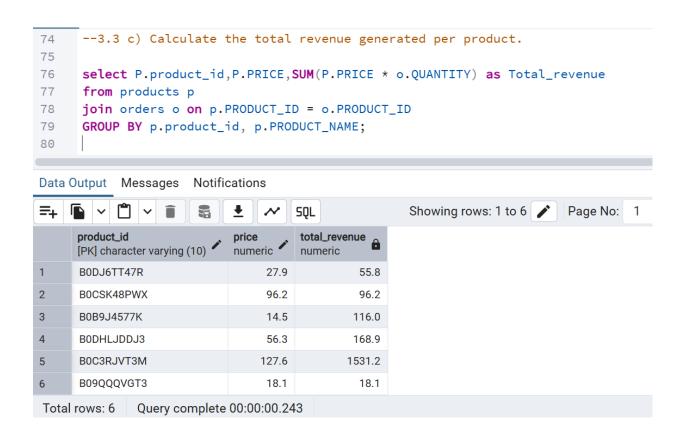
3.3 a) Retrieve all orders placed by a specific customer.

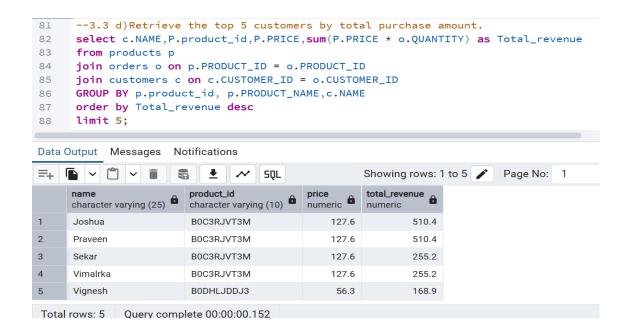


3.3 b) Find products that are out of stock.

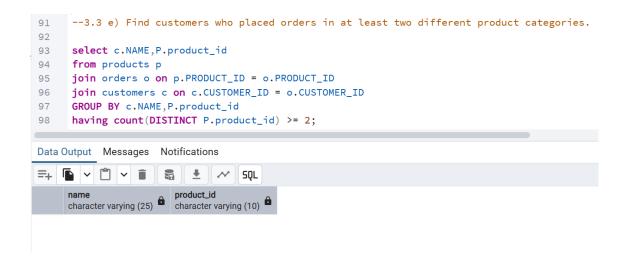
```
-- Find products that are out of stock.
68
69
70
      select stock,product_id
      from products
71
      where stock <=1; --consider stock less than or equal to 1 is out of stocl.
72
Data Output Messages Notifications
=+
                                      SQL
                                                       Showing rows: 1 to 1
                                                                               Page No: 1
              product_id
      stock
     integer
              [PK] character varying (10)
               B0DJ6TT47R
```

3.3 c) Calculate the total revenue generated per product.





3.3 e) Find customers who placed orders in at least two different product categories.

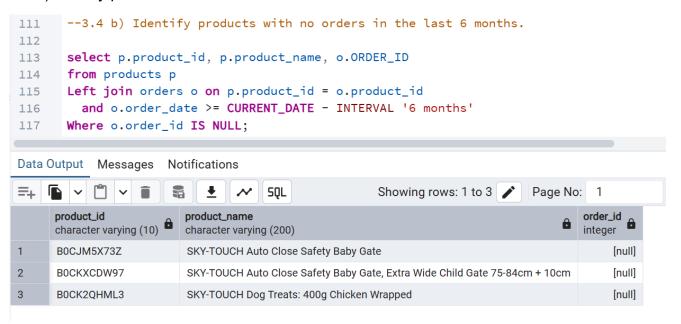


3.4 Analytics:

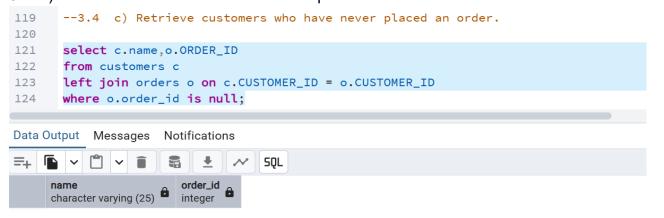
3.4 a) Find the month with the highest total sales.

```
100
       --3.4 Analytics:
101
       --3.4 a) Find the month with the highest total sales
102
       select TO_CHAR(ORDER_DATE, 'Month') as Months,
103
104
               sum(p.price * o.QUANTITY) as total_sales
105
       from orders o
       join products p on p.PRODUCT_ID = o.PRODUCT_ID
106
107
       group by Months
       order by total_sales desc
108
       LIMIT 1;
109
            Messages
                      Notifications
Data Output
=+
                                     SQL
                                                      Showing rows: 1 to 1
     months
               total_sales
     text
               numeric
1
     July
                     765.6
```

3.4 b) Identify products with no orders in the last 6 months.



3.4 c) Retrieve customers who have never placed an order.



3.4 d) Calculate the average order value across all orders.

