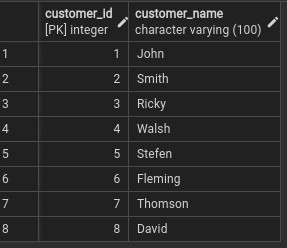
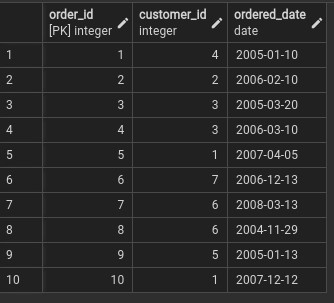
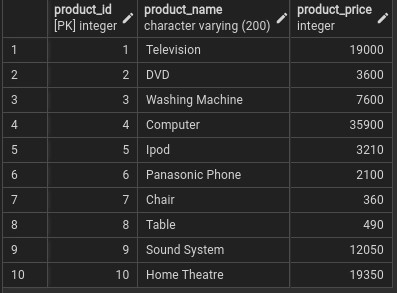
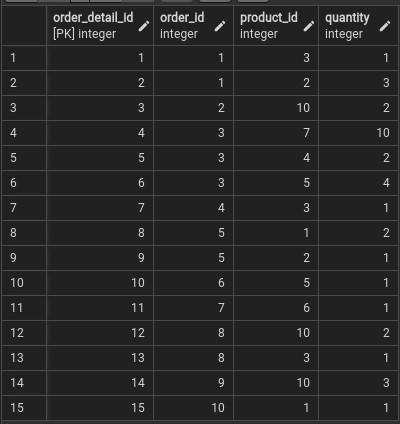
Customer



Product

Orders 

Order\_Details



1. Fetch **all the** Customer Details along with the product names that the customer has ordered.
2. Fetch Order\_Id, Ordered\_Date, Total Price of the order (product price\*qty).
3. Fetch the Customer Name, who has not placed any order
4. Fetch the Product Details without any order(purchase)
5. Fetch the Customer name along with the total Purchase Amount
6. Fetch the Customer details, who has placed the first and last order
7. Fetch the customer details , who has placed more number of orders
8. Fetch the customer details, who has placed multiple orders in the same year
9. Fetch the name of the month, in which more number of orders has been placed
10. Fetch the maximum priced **Ordered Product**

Answers

1. Fetch all the Customer Details along with the product names that the customer has ordered.

SELECT Customer.\*, Product.Product\_name FROM Order\_Details

LEFT JOIN Orders

ON Order\_Details.Order\_id = Orders.Order\_id

LEFT JOIN Product

ON Order\_Details.Product\_id = Product.Product\_id

LEFT JOIN Customer

ON Orders.Customer\_id = Customer.Customer\_id

ORDER BY Customer\_Id ;



1. Fetch Order\_Id, Ordered\_Date, Total Price of the order (product price\*qty)

SELECT Orders.Order\_id,

Orders.Ordered\_date,

(Product.Product\_price\*Order\_details.quantity) AS TOTAL

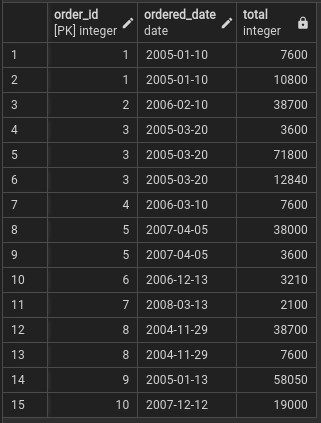
FROM Order\_Details

LEFT JOIN Orders ON

Order\_details.Order\_id = Orders.Order\_id

LEFT JOIN Product ON

Order\_details.Product\_id = Product.Product\_Id ;



1. Fetch the Customer Name, who has not placed any order

SELECT Customer.Customer\_name From Order\_details

LEFT JOIN Orders

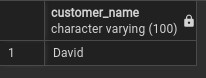
ON Order\_Details.Order\_id = Orders.Order\_id

FULL OUTER JOIN Customer

ON Orders.Customer\_Id = Customer.Customer\_id

WHERE Customer.Customer\_id

NOT IN (SELECT Customer\_id FROM Orders);



1. Fetch the Product Details without any order(purchase)

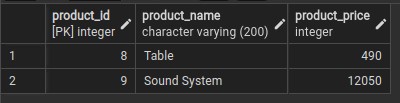
SELECT Product.\* FROM Product

LEFT OUTER JOIN Order\_details

ON Product.Product\_id = Order\_Details.Product\_id

WHERE Product.Product\_id NOT IN(

SELECT Product\_id FROM Order\_details);



1. Fetch the Customer name along with the total Purchase Amount

SELECT Customer.Customer\_Name, SUM(Product.Product\_Price) FROM

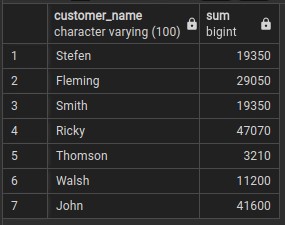
Order\_details

INNER JOIN Orders ON Order\_details.Order\_id = Orders.Order\_id

INNER JOIN Product ON Order\_details.Product\_id = Product.Product\_id

INNER JOIN Customer ON Orders.Customer\_id = Customer.Customer\_id

GROUP BY Customer.Customer\_Name ;



1. Fetch the Customer details, who has placed the first and last order

SELECT Customer.\*, Orders.Ordered\_date FROM Order\_details

INNER JOIN Orders ON Order\_details.Order\_id = Orders.Order\_id

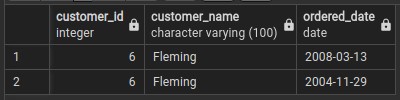
INNER JOIN Customer ON Orders.Customer\_id = Customer.Customer\_id

WHERE Orders.Ordered\_Date = (SELECT MAX(Orders.Ordered\_date)FROM

Orders) OR

Orders.Ordered\_date = (SELECT MIN(Orders.Ordered\_date) FROM Orders)

LIMIT 2;



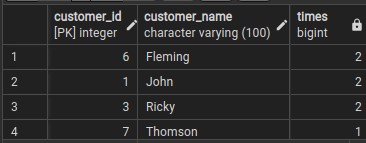
1. Fetch the customer details , who has placed more number of orders

SELECT Customer.\*, COUNT(\*) AS TIMES FROM Orders

LEFT JOIN Customer ON Orders.Customer\_id = Customer.Customer\_id

GROUP BY Customer.Customer\_ID

Order BY TIMES DESC ;



1. Fetch the customer details, who has placed multiple orders in the same year

SELECT Customer.\*, Count(\*) AS Order\_s, EXTRACT(YEAR FROM

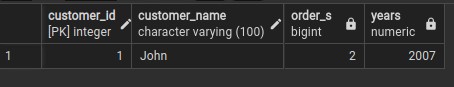
Orders.Ordered\_Date) AS Years FROM Orders

INNER JOIN Customer ON Orders.Customer\_id = Customer.Customer\_id

Group By Years, Customer.Customer\_id

Order by order\_s DESC

LIMIT 1;



1. Fetch the name of the month, in which more number of orders has been placed

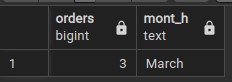
SELECT Count(\*) as Orders, to\_char(Ordered\_date, 'Month') as mont\_h

FROM Orders

Group By Mont\_h

Order by orders DESC

LIMIT 1;



1. Fetch the maximum priced Ordered Product

SELECT Product.Product\_name, Product.Product\_Price

FROM Product

RIGHT JOIN Order\_Details ON Product.Product\_id =

Order\_Details.Product\_id

GROUP by Product.Product\_name, Product.Product\_Price

ORDER BY Product\_Price DESC

LIMIT 1;

