

## Lab Sheet - 7

Ques 1 → list all customers who have placed at least one order along with the article name and quantity

SELECT

Customers . Customer Name,  
Articles . Article Name,  
Orders . Quantity

FROM

Customers

INNER JOIN Orders

ON Customers . Customer ID = Orders . Customer ID

INNER JOIN Articles

ON Orders . Article ID = Articles . Article ID;

Ques 2 → Retrieve all articles that have been ordered along with the corresponding customer price .

SELECT

Articles . Article Name,  
Customers . Customer Name,  
Orders . Price

FROM

Orders

INNER JOIN Articles

ON orders . Article ID = Articles . Article ID

INNER JOIN Customers

ON Orders . Customer ID = Customers . Customer ID;



Ques 3 → list all customers and their orders. Include customers who have not placed any order.

SELECT

Customers. Customer Name,  
Orders. Order ID,  
Orders. Order Date

FROM

Customers

LEFT JOIN Orders

ON Customers. Customer ID = Orders. Customer ID;

Ques 4 → Show all customers and all places associated with them. Include customers who do not have any places recorded.

SELECT

Customers. Customer Name,  
Places. Place Name

FROM

Customers

LEFT JOIN Places

ON Customers. Customer ID = Places. Customer ID.

Ques 5 → list all articles along with the customers who ordered them. Include articles that have never been ordered.

SELECT

Articles. Article Name,  
Customers. Customer Name



FROM

Articles

LEFT JOIN Orders

ON Articles.Article ID = Orders.Article ID

LEFT JOIN Customers

ON Orders.Customer ID = Customers.Customer ID;

Ques4 → Show all customers and all places associated with them. Include customers who do not have any places recorded.

SELECT

Customers.Customer Name,

Places.Place Name

FROM

Customers

LEFT JOIN Places

ON Customers.Customer ID = Places.Customer ID;

Ques5 → list all articles along with the customers who ordered them. Include articles that have never been ordered.

SELECT

Articles.Article Name,

Customers.Customer Name

FROM

Articles

LEFT JOIN Orders

ON Articles.Article ID = Orders.Article ID



LEFT JOIN Customers

ON Orders.CustomerID = Customers.CustomerID.

Ques 6 → Display a list of all Customers and all orders. Include Customers without orders and orders without a matching Customer.

SELECT

Customers.Customer Name,  
Orders.Order ID,  
Orders.Order Date

FROM

Customers

FULL JOIN Orders

ON Customers.CustomerID = Orders.CustomerID;

Ques 7 → Generate a report of all possible customer-article combinations (without considering orders).

SELECT

Customers.Customer Name,  
Articles.Article Name

FROM

Customers

CROSS JOIN Articles;



Ques 8 → Suppose you want to find Customers whose Pricing is higher than some other Customer. List Pairs of such Customers.

SELECT

C1. Customer Name AS Customer - Higher Price,  
C2. Customer Name AS Customer - lower Price

FROM

Customers C1, Customers C2

WHERE

C1.Price > C2.Price;

Ques 9 → Find the total quantity of each article ordered by Customers.

SELECT

Articles. Article Name,  
SUM(Orders, Quantity) AS Total Quantity

FROM

Orders

INNER JOIN Articles

ON Orders. Article ID = Articles. Article ID

GROUP BY

Articles. Article Name;

Ques 10 → Find the total amount Spent by each Customer. (Use Quantity \* Article.Price)



SELECT

Customers. Customer Name,

SUM(Orders. Quantity \* Articles. Price) AS Total  
Amount Spent

FROM

Orders

INNER JOIN Customers

ON Orders. Customer ID = Customer. Customer ID

INNER JOIN Articles

ON Orders. Article ID = Articles. Article ID

GROUP BY

Customers. Customer Name;