SQL BOOTCAMP PROJECT
TITLE: TO DO LIST WEB APP

WORD PROBLEM CONTEXT:

You are a data analyst at a retail company called ShopKart. Your manager asks you to analyze customer and order data stored in a database with the following two tables:

1. Customers

CustomerID	Name	City	Age
1	Alice	Delhi	25
2	Bob	Mumbai	30
3	Charlie	Bangalore	28
4	David	Delhi	35
5	Eve	Hyderabad	22

2. Orders

OrderID	CustomerID	Amount	OrderDate
101	1	2500	2024-12-01
102	2	1800	2024-12-03
103	1	3200	2025-01-15
104	3	1500	2025-02-10
105	4	2700	2025-03-12

QUESTIONS AND THEIR ANSWERS:

Q1. List the names of all customers who live in Delhi.

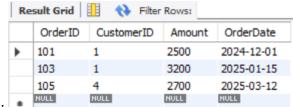A1. Query: SELECT Name

FROM customers

WHERE City="Delhi";

Result Grid	
Name
▸ Alice
David

Output:

Q2. Find all order with amount greater than 2000.

A2. Query: SELECT *

FROM orders

WHERE Amount>2000;

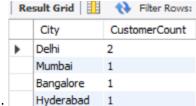|	OrderID	CustomerID	Amount	OrderDate
▸	101	1	2500	2024-12-01
	103	1	3200	2025-01-15
	105	4	2700	2025-03-12
*	NULL	NULL	NULL	NULL

Result Grid   Filter Rows:

Output:

Q3. How many customers are from each city?

A3. Query: SELECT City, COUNT(*) AS CustomerCount

FROM customers

GROUP BY City;

Result Grid   Filter Rows:

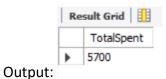|	City	CustomerCount
▸	Delhi	2
	Mumbai	1
	Bangalore	1
	Hyderabad	1

Output:

Q4. What is the total amount spent by customer 'Alice'?

A4. Query: SELECT SUM(Amount) AS TotalSpent

FROM orders

WHERE CustomerID =

(SELECT CustomerID FROM customers WHERE Name="Alice");

Output:

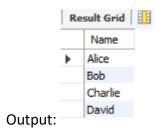|	TotalSpent
▶	5700

Result Grid

Q5. List all customers who have placed at least one order.

A5. Query: SELECT DISTINCT customers.Name

FROM customers

JOIN orders ON customers.CustomerID = orders.CustomerID;

Output:

Result Grid

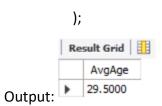|	Name
▶	Alice
	Bob
	Charlie
	David

Q6. Get the average age of customers who have placed order.

A6. Query: SELECT AVG(Age) AS AvgAge

FROM customers

WHERE CustomerID IN (

SELECT DISTINCT CustomerID FROM orders

);

Output:

Result Grid
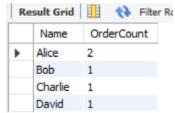
	AvgAge
▶	29.5000

Q7. List customers names and their total number of orders.

A7. Query: SELECT customers.Name, COUNT(orders.OrderID) AS OrderCount

FROM customers

JOIN orders ON customers.CustomerID = orders.CustomerID

GROUP BY customers.Name;

Name	OrderCount
Alice	2
Bob	1
Charlie	1
David	1

Output:

QUERY OF SQL ON MYSQL WORKBENCH:

CREATE DATABASE bootcamp_project;

USE bootcamp_project;

CREATE TABLE customers(

CustomerID INT PRIMARY KEY,

Name VARCHAR(50),

City VARCHAR(20),

Age INT

);

INSERT INTO customers

(CustomerID, Name, City, Age)

VALUES

(1, "Alice", "Delhi", 25),

(2, "Bob", "Mumbai", 30),

(3, "Charlie", "Bangalore", 28),

(4, "David", "Delhi", 35),

(5, "Eve", "Hyderabad", 22);

SELECT * FROM customers;

CREATE TABLE orders(

OrderID INT PRIMARY KEY,

CustomerID INT,

Amount FLOAT,

```sql
OrderDate DATE,

FOREIGN KEY(CustomerID) REFERENCES customers(CustomerID)

);

INSERT INTO orders

(OrderId, CustomerID, Amount, OrderDate)

VALUES

(101, 1, 2500, "2024-12-01"),

(102, 2, 1800, "2024-12-03"),

(103, 1, 3200, "2025-01-15"),

(104, 3, 1500, "2025-02-10"),

(105, 4, 2700, "2025-03-12");

SELECT * FROM orders;


#question 1

SELECT Name

FROM customers

WHERE City="Delhi";


#question 2

SELECT *

FROM orders

WHERE Amount>2000;


#question 3

SELECT City, COUNT(*) AS CustomerCount

FROM customers

GROUP BY City;


#question 4
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SELECT SUM(Amount) AS TotalSpent

FROM orders

WHERE CustomerID = (SELECT CustomerID FROM customers WHERE Name="Alice");


#question 5

SELECT DISTINCT customers.Name

FROM customers

JOIN orders ON customers.CustomerID = orders.CustomerID;


#question 6

SELECT AVG(Age) AS AvgAge

FROM customers

WHERE CustomerID IN (

SELECT DISTINCT CustomerID FROM orders

);


#question 7

SELECT customers.Name, COUNT(orders.OrderID) AS OrderCount

FROM customers

JOIN orders ON customers.CustomerID = orders.CustomerID

GROUP BY customers.Name;
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