SQL PROJECT

1. **List the names of all customers who live in Delhi.**

A.
```
CREATE TABLE Customers (
    CustomerID INT,
    Name TEXT,
    City TEXT,
    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 Name

FROM Customers

WHERE City = 'Delhi';
```

OTPUT:

2 . Find all orders with amount greater than 2000.

A .
```
CREATE TABLE Orders (
    OrderID INT,
    CustomerID INT,
    Amount INT,
    OrderDate DATE
);
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
WHERE Amount > 2000;

OUTPUT:

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

3 . How many customers are from each city?

A . DROP TABLE IF EXISTS Customers;

```
CREATE TABLE Customers (
    CustomerID INTEGER,
    Name TEXT,
    City TEXT,
    Age INTEGER
);
```

```
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 City, COUNT(*) AS TotalCustomers
FROM Customers
GROUP BY City;
```

OUTPUT:

City	TotalCustomers
Bangalore	1
Delhi	2
Hyderabad	1
Mumbai	1

4 . What is the total amount spent by customer 'Alice'?
A . DROP TABLE IF EXISTS Customers;

```
CREATE TABLE Customers (
   CustomerID INTEGER,
   Name TEXT,
   City TEXT,
   Age INTEGER
);

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);


DROP TABLE IF EXISTS Orders;

CREATE TABLE Orders (
   OrderID INTEGER,
   CustomerID INTEGER,
   Amount INTEGER,
   OrderDate TEXT
);

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 c.Name, SUM(o.Amount) AS TotalAmount
FROM Customers c
JOIN Orders o ON c.CustomerID = o.CustomerID
WHERE c.Name = 'Alice';
```

OUTPUT:

Name	TotalAmount
Alice	5700

5. List all customers who have placed at least one order ?
A. DROP TABLE IF EXISTS Customers;

```
CREATE TABLE Customers (
   CustomerID INTEGER,
   Name TEXT,
   City TEXT,
   Age INTEGER
);


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);


DROP TABLE IF EXISTS Orders;

CREATE TABLE Orders (
   OrderID INTEGER,
   CustomerID INTEGER,
   Amount INTEGER,
   OrderDate TEXT
);


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 DISTINCT c.Name
FROM Customers c
JOIN Orders o ON c.CustomerID = o.CustomerID;
```

OUTPUT:

Name
Alice
Bob
Charlie
David

6. Get the average age of customers who have placed orders.

A . CREATE TABLE Customers (
CustomerID INT,
Name TEXT,
City TEXT,
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);

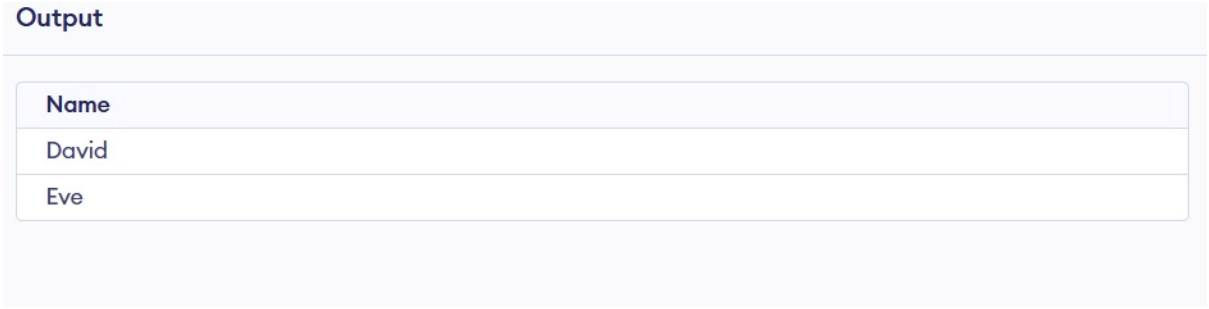
CREATE TABLE Orders (
OrderID INT,
CustomerID INT,
Product TEXT
);

INSERT INTO Orders (OrderID, CustomerID, Product) VALUES
(101, 1, 'Laptop'),
(102, 3, 'Phone'),
(103, 1, 'Mouse'),
(104, 2, 'Tablet');

SELECT C.Name
FROM Customers C
LEFT JOIN Orders O ON C.CustomerID = O.CustomerID

WHERE O.CustomerID IS NULL;

OUTPUT:



7. List customer names and their total number of orders.

A . Create Customers table

```
CREATE TABLE Customers (
   CustomerID INT,
   Name TEXT,
   City TEXT,
   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);
CREATE TABLE Orders (
   OrderID INT,
   CustomerID INT,
   Product TEXT
);
INSERT INTO Orders (OrderID, CustomerID, Product) VALUES
(101, 1, 'Laptop'),
(102, 3, 'Phone'),
(103, 1, 'Mouse'),
(104, 2, 'Tablet');
SELECT DISTINCT C.Name, C.Age
FROM Customers C
JOIN Orders O ON C.CustomerID = O.CustomerID;
```

OUTPUT:

Output

Name	Age
Alice	25
Bob	30
Charlie	28