Lab 4 Final Task:

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SEM 4

SEC B

Customer Table (For filtering by city, name)

customer_id	name	email	phone	address
1	Alice Johnson	alice@gmail.com	9876543210	New York
2	Bob Smith	bob@yahoo.com	9123456789	Los Angeles
3	Charlie Brown	charlie@outlook.com	9998887776	Chicago
4	David Miller	david@gmail.com	8765432109	Miami
5	Amy Adams	amy@hotmail.com	7654321098	New York

employee_id	name	role	salary	hire_date
1	Michael Scott	Manager	75000.00	2020-05-10
2	Jim Halpert	Cashier	30000.00	2021-08-15
3	Pam Beesly	Sales Associate	28000.00	2022-02-20

4	Dwight Schrute	Supervisor	50000.00	2019-11-30

Product Table (For filtering by category, price, and stock quantity)

product_id	name	category	price	stock_quantity
1	Milk	Dairy	2.50	50
2	Bread	Bakery	1.80	30
3	Eggs	Dairy	3.20	40
4	Chicken	Meat	7.50	20
5	Apples	Fruit	1.20	60
6	Croissant	Bakery	2.50	25

Employee Table (For filtering by hire date, salary)

5	Kevin Malone	Cashier	29000.00	2023-03-10

Order_Details Table (For filtering orders based on date)

order_id	customer_id	order_date	total_amount
1	1	2024-01-10	10.50
2	2	2024-01-12	15.20
3	3	2024-02-01	20.80
4	4	2024-02-05	30.00
5	5	2024-02-10	25.50

1. Write the queries to generate above tables to use as the sample for given below queries.

```
CREATE TABLE Customer (
   customer_id INT PRIMARY KEY,
   name VARCHAR(100),
   email VARCHAR(100),
```

```
    phone VARCHAR(15),
    address VARCHAR(100)
);

INSERT INTO Customer (customer_id, name, email, phone, address) VALUES
(1, 'Alice Johnson', 'alice@gmail.com', '9876543210', 'New York'),
(2, 'Bob Smith', 'bob@yahoo.com', '9123456789', 'Los Angeles'),
(3, 'Charlie Brown', 'charlie@outlook.com', '9998887776', 'Chicago'),
(4, 'David Miller', 'david@gmail.com', '8765432109', 'Miami'),
(5, 'Amy Adams', 'amy@hotmail.com', '7654321098', 'New York');

CREATE TABLE Product (
    product_id INT PRIMARY KEY,
    name VARCHAR(100),
    category VARCHAR(50),
    price DECIMAL(10,2),
    stock_quantity INT
);

INSERT INTO Product (product_id, name, category, price, stock_quantity) VALUES
(1, 'Milk', 'Dairy', 2.50, 50),
(2, 'Bread', 'Bakery', 1.80, 30),
(3, 'Eggs', 'Dairy', 3.20, 40),
(4, 'Chicken', 'Meat', 7.50, 20),
(5, 'Apples', 'Fruit', 1.20, 60),
(6, 'Croissant', 'Bakery', 2.50, 25);

CREATE TABLE Employee (
    employee_id INT PRIMARY KEY,
    name VARCHAR(100),
    role VARCHAR(50),
    salary DECIMAL(15,2),
    hire_date DATE
);

INSERT INTO Employee (employee_id, name, role, salary, hire_date) VALUES
(1, 'Michael Scott', 'Manager', 75000.00, '2020-05-10'),
(2, 'Jim Halpert', 'Cashier', 30000.00, '2021-08-15'),
(3, 'Pam Beesly', 'Sales Associate', 28000.00, '2022-02-20'),
(4, 'Dwight Schrute', 'Supervisor', 50000.00, '2019-11-30'),
```

```
(5, 'Kevin Malone', 'Cashier', 29000.00, '2023-03-10');

CREATE TABLE Order_Details (
   order_id INT PRIMARY KEY,
   customer_id INT,
   order_date DATE,
   total_amount DECIMAL(10,2),
   FOREIGN KEY (customer_id) REFERENCES Customer(customer_id)
);

INSERT INTO Order_Details (order_id, customer_id, order_date, total_amount) VALUES
(1, 1, '2024-01-10', 10.50),
(2, 2, '2024-01-12', 15.20),
(3, 3, '2024-02-01', 20.80),
(4, 4, '2024-02-05', 30.00),
(5, 5, '2024-02-10', 25.50);
```

2. Find all customers **from New York or Los Angeles**.

customer_id	name	email	phone	address
1	Alice Johnson	alice@gmail.com	9876543210	New York
2	Bob Smith	bob@yahoo.com	9123456789	Los Angeles
5	Amy Adams	amy@hotmail.com	7654321098	New York

3. Retrieve products that are **Dairy or Bakery items**.

product_id	name	category	price	stock_quantity
1	Milk	Dairy	2.5	50
2	Bread	Bakery	1.8	30
3	Eggs	Dairy	3.2	40
6	Croissant	Bakery	2.5	25

4. Find employees **hired between 2021 and 2023**.

employee_id	name	role	salary	hire_date
2	Jim Halpert	Cashier	30000	2021-08-15
3	Pam Beesly	Sales Associate	28000	2022-02-20
5	Kevin Malone	Cashier	29000	2023-03-10

5. List customers whose **names start with 'A'**.

customer_id	name	email	phone	address
1	Alice Johnson	alice@gmail.com	9876543210	New York
5	Amy Adams	amy@hotmail.com	7654321098	New York

6. Retrieve orders placed in **February 2024.**

order_id	customer_id	order_date	total_amount
3	3	2024-02-01	20.8
4	4	2024-02-05	30
5	5	2024-02-10	25.5

7. Count the total **number of customers**.

total_customers
5

8. Find the **average product price**.

average_price
3.1166666666666667

9. Get the **maximum salary of employees**.

max_salary
75000

10. Retrieve the **total revenue from orders**.

total_revenue
102

11. Find the **minimum stock quantity available**.

min_stock
20