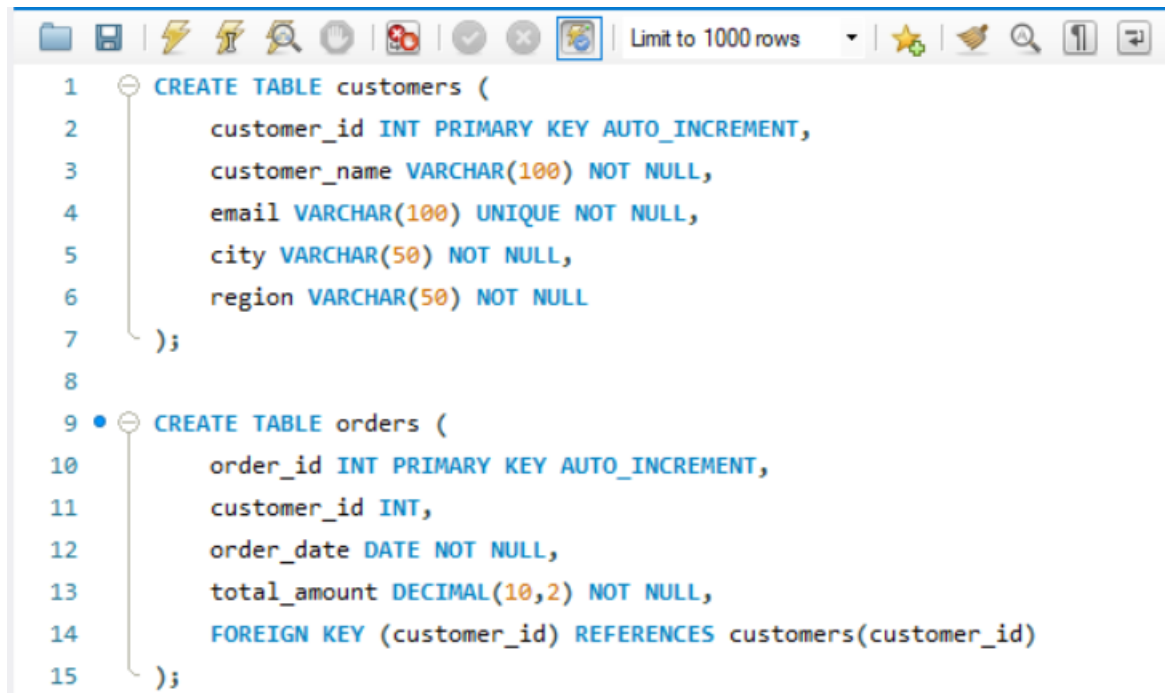**Assignment 2:** Craft a query using an INNER JOIN to combine 'orders' and 'customers' tables for customers in a specified region, and a LEFT JOIN to display all customers including those without orders.

Step 1 : Create orders and customers Tables.

```sql
CREATE TABLE customers (
    customer_id INT PRIMARY KEY AUTO_INCREMENT,
    customer_name VARCHAR(100) NOT NULL,
    email VARCHAR(100) UNIQUE NOT NULL,
    city VARCHAR(50) NOT NULL,
    region VARCHAR(50) NOT NULL
);

CREATE TABLE orders (
    order_id INT PRIMARY KEY AUTO_INCREMENT,
    customer_id INT,
    order_date DATE NOT NULL,
    total_amount DECIMAL(10,2) NOT NULL,
    FOREIGN KEY (customer_id) REFERENCES customers(customer_id)
);
```

Step 2: Insert Dummy Data.

```
16 •     INSERT INTO customers (customer_name, email, city, region) VALUES
17       ('John Doe', 'john.doe@example.com', 'New York', 'East'),
18       ('Jane Smith', 'jane.smith@example.com', 'Los Angeles', 'West'),
19       ('Mike Johnson', 'mike.johnson@example.com', 'Chicago', 'Midwest'),
20       ('Emily Davis', 'emily.davis@example.com', 'New York', 'East'),
21       ('David Wilson', 'david.wilson@example.com', 'San Francisco', 'West');
22
23 •     INSERT INTO orders (customer_id, order_date, total_amount) VALUES
24       (1, '2024-02-01', 150.75),
25       (2, '2024-02-05', 200.50),
26       (3, '2024-02-10', 99.99),
27       (1, '2024-02-15', 300.00),
28       (4, '2024-02-18', 50.25);
```

Step 3 : Query Using INNER JOIN for Customers in a Specific Region.

```
29 •     SELECT customers.customer_name, customers.email, orders.order_id, orders.order_date, orders.total_amount
30       FROM customers
31       INNER JOIN orders ON customers.customer_id = orders.customer_id
32       WHERE customers.region = 'East';
33       |
34
35
36
37
38
39
40
41
42
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: 𝐈𝐀

customer_name	email	order_id	order_date	total_amount
John Doe	john.doe@example.com	1	2024-02-01	150.75
John Doe	john.doe@example.com	4	2024-02-15	300.00
Emily Davis	emily.davis@example.com	5	2024-02-18	50.25

Step 4: Query Using LEFT JOIN to Show All Customers Including Those Without Orders.

```sql
33  SELECT customers.customer_name, customers.email, orders.order_id, orders.order_date, orders.total_amount
34  FROM customers
35  LEFT JOIN orders ON customers.customer_id = orders.customer_id;
36
37
38
39
40
41
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

customer_name	email	order_id	order_date	total_amount
John Doe	john.doe@example.com	1	2024-02-01	150.75
John Doe	john.doe@example.com	4	2024-02-15	300.00
Jane Smith	jane.smith@example.com	2	2024-02-05	200.50
Mike Johnson	mike.johnson@example.com	3	2024-02-10	99.99
Emily Davis	emily.davis@example.com	5	2024-02-18	50.25
David Wilson	david.wilson@example.com	NULL	NULL	NULL
Sarah Brown	sarah.brown@example.com	NULL	NULL	NULL
James White	james.white@example.com	NULL	NULL	NULL
Olivia Martin	olivia.martin@example.com	NULL	NULL	NULL
Daniel Thompson	daniel.thompson@example.com	NULL	NULL	NULL
Sophia Garcia	sophia.garcia@example.com	NULL	NULL	NULL