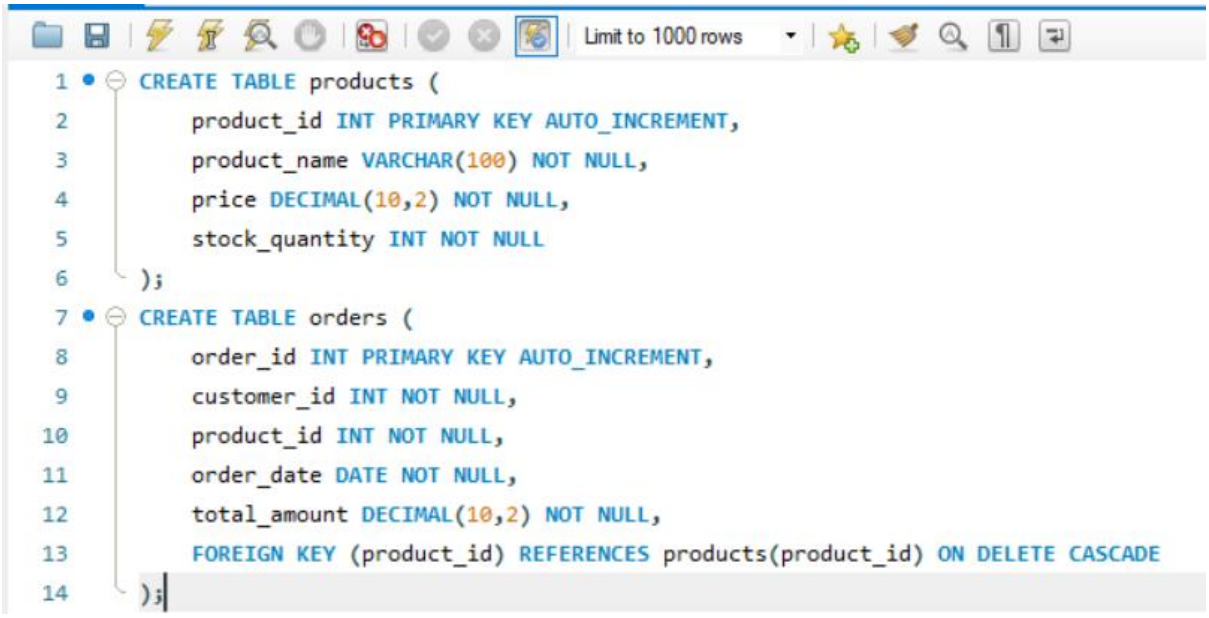
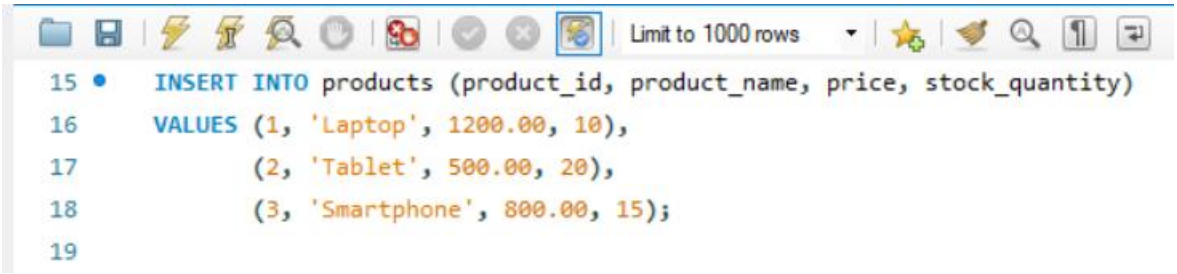
Assignment 5: Begin a transaction, perform a series of INSERTs into 'orders', setting a SAVEPOINT after each, rollback to the second SAVEPOINT, and COMMIT the overall transaction.

Step 1 : Create the products and orders tables.



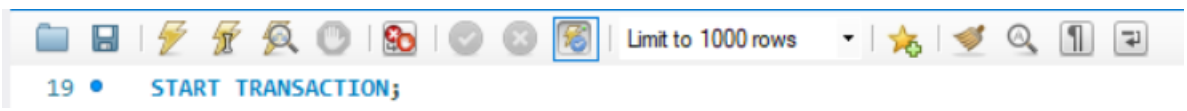
```
CREATE TABLE products (
    product_id INT PRIMARY KEY AUTO_INCREMENT,
    product_name VARCHAR(100) NOT NULL,
    price DECIMAL(10,2) NOT NULL,
    stock_quantity INT NOT NULL
);
CREATE TABLE orders (
    order_id INT PRIMARY KEY AUTO_INCREMENT,
    customer_id INT NOT NULL,
    product_id INT NOT NULL,
    order_date DATE NOT NULL,
    total_amount DECIMAL(10,2) NOT NULL,
    FOREIGN KEY (product_id) REFERENCES products(product_id) ON DELETE CASCADE
);
```

Step 2 : Insert data to products table.



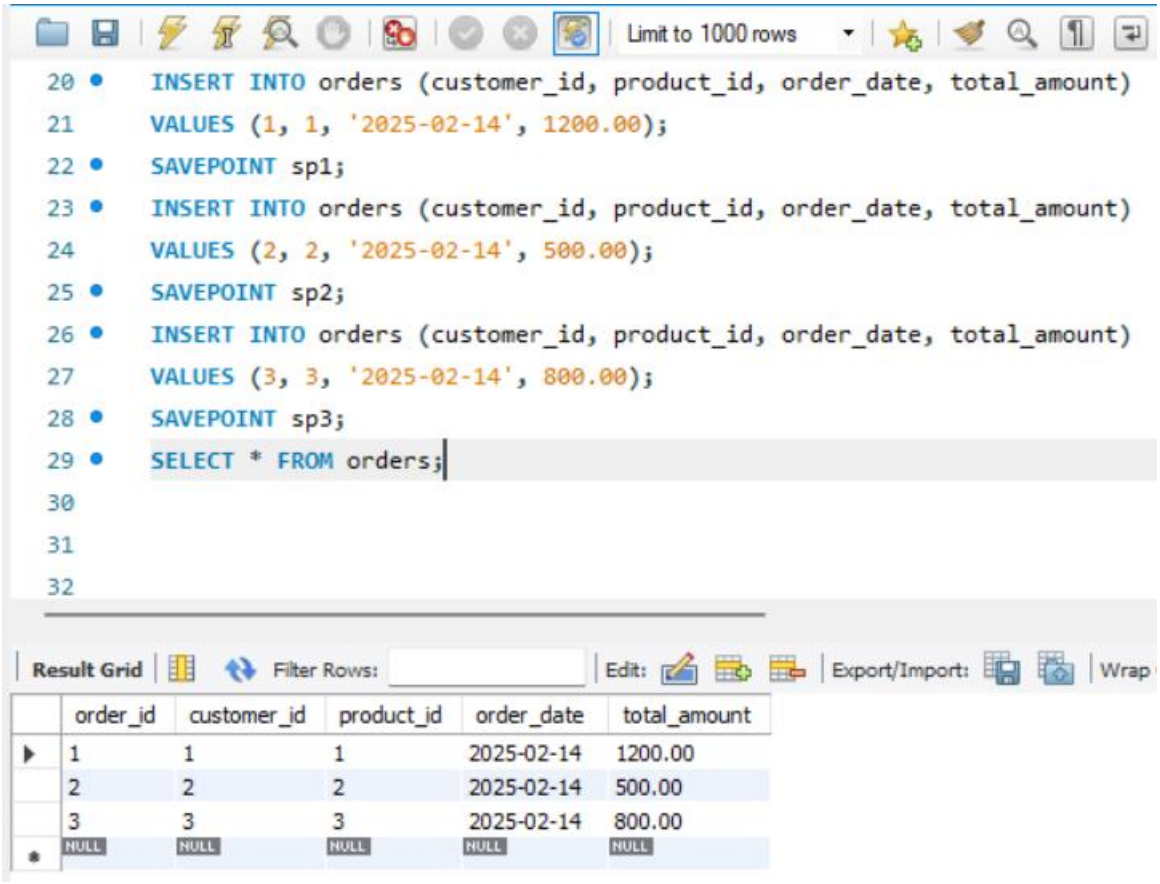
```
INSERT INTO products (product_id, product_name, price, stock_quantity)
VALUES (1, 'Laptop', 1200.00, 10),
       (2, 'Tablet', 500.00, 20),
       (3, 'Smartphone', 800.00, 15);
```

Step 3 : Start a Transaction.



```
START TRANSACTION;
```

Step 4 : Insert Orders with SAVEPOINTS & Verify insertion.

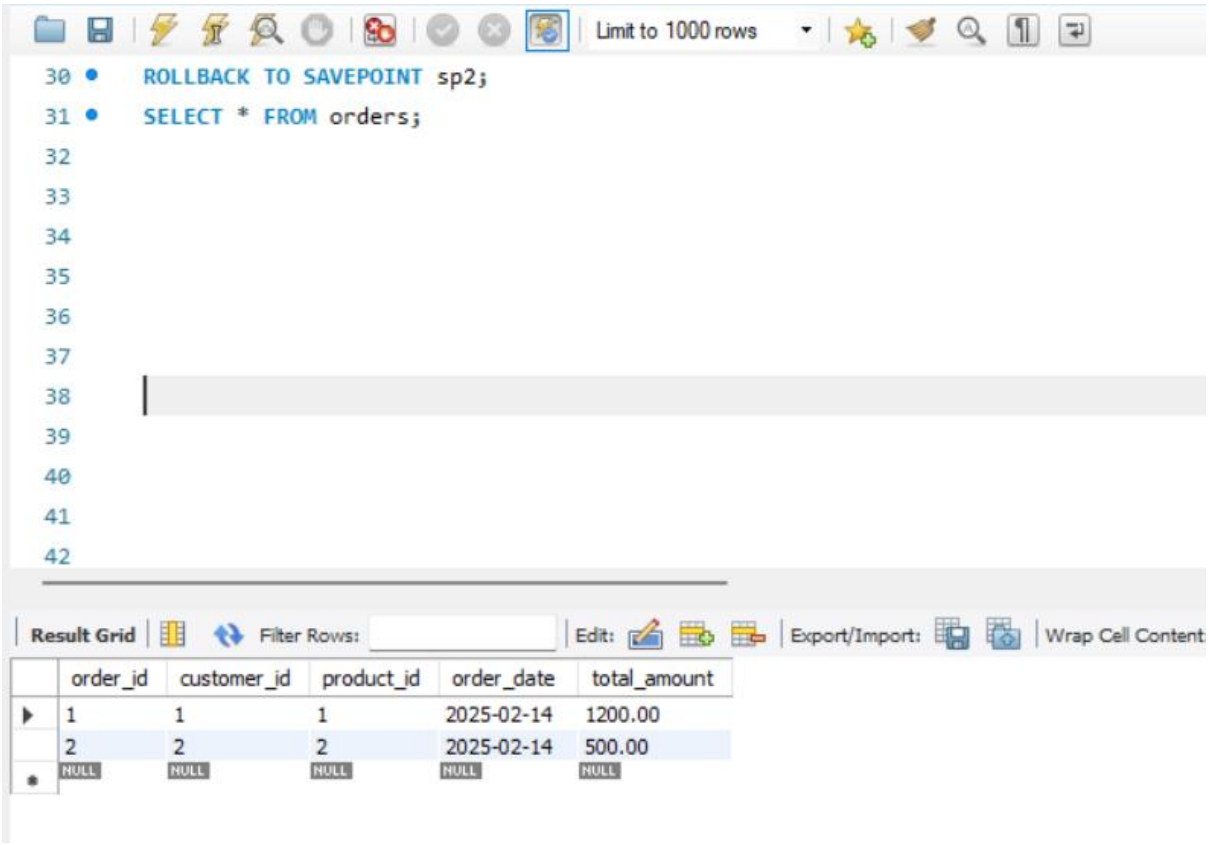


```
20  INSERT INTO orders (customer_id, product_id, order_date, total_amount)
21  VALUES (1, 1, '2025-02-14', 1200.00);
22  SAVEPOINT sp1;
23  INSERT INTO orders (customer_id, product_id, order_date, total_amount)
24  VALUES (2, 2, '2025-02-14', 500.00);
25  SAVEPOINT sp2;
26  INSERT INTO orders (customer_id, product_id, order_date, total_amount)
27  VALUES (3, 3, '2025-02-14', 800.00);
28  SAVEPOINT sp3;
29  SELECT * FROM orders;
30
31
32
```

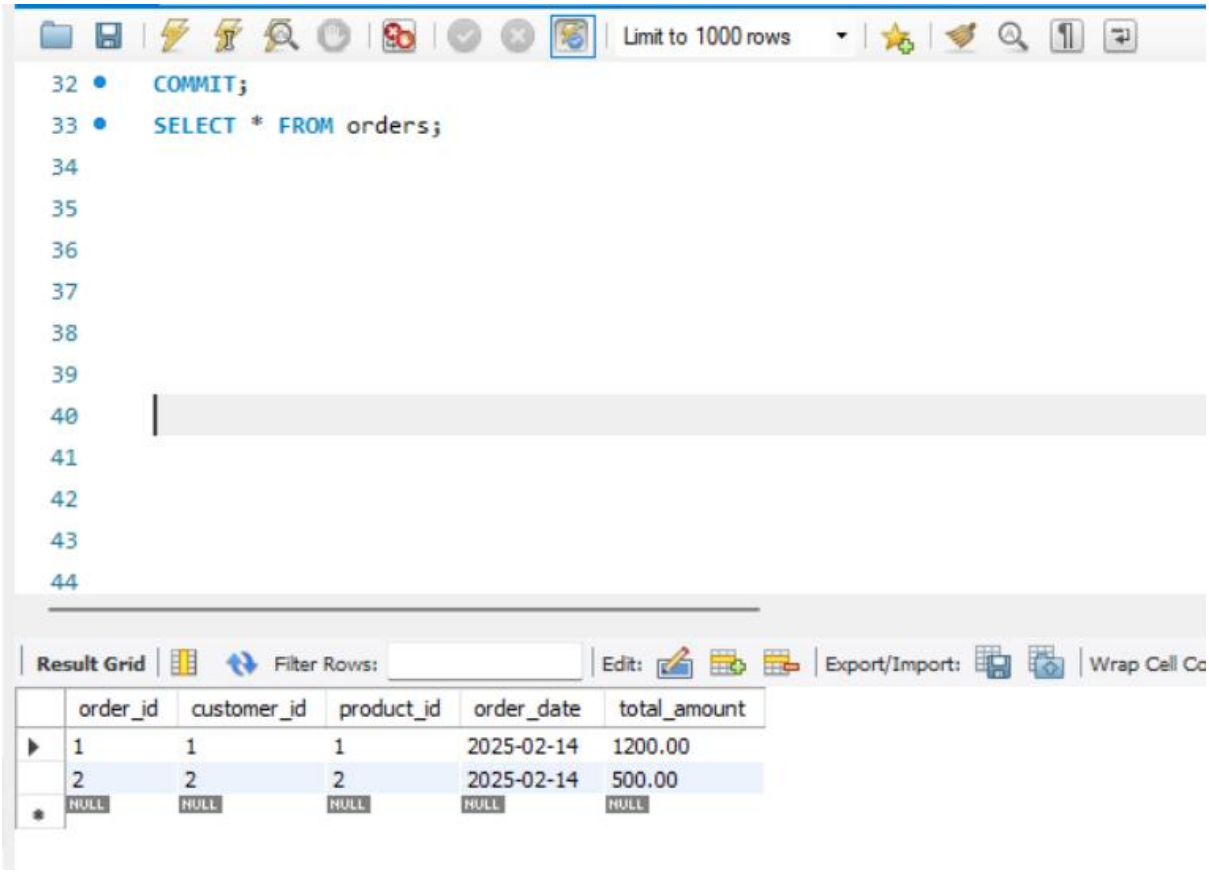
Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap

order_id	customer_id	product_id	order_date	total_amount
1	1	1	2025-02-14	1200.00
2	2	2	2025-02-14	500.00
3	3	3	2025-02-14	800.00
NULL	NULL	NULL	NULL	NULL

Step 5 : Rollback to the Second SAVEPOINT & Check Orders After ROLLBACK.



Step 6 : Commit the Transaction.


Limit to 1000 rows
32 COMMIT;
33 SELECT * FROM orders;
34
35
36
37
38
39
40
41
42
43
44
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Co
order_id customer_id product_id order_date total_amount
1 1 1 2025-02-14 1200.00
2 2 2 2025-02-14 500.00
NULL NULL NULL NULL NULL