**Assignment 4:** Compose SQL statements to BEGIN a transaction, INSERT a new record into the 'orders' table, COMMIT the transaction, then UPDATE the 'products' table, and ROLLBACK the transaction.

**Step 1**: Create the products and orders tables.

```
1 ● ⊖ CREATE TABLE products (
          product id INT PRIMARY KEY AUTO INCREMENT,
          product name VARCHAR(100) NOT NULL,
 3
 4
          price DECIMAL(10,2) NOT NULL,
          stock quantity INT NOT NULL
 5
 6
       );
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 7 • G CREATE TABLE orders (
          order id INT PRIMARY KEY AUTO INCREMENT,
         customer_id INT,
 9
         product_id INT,
10
          order_date DATE NOT NULL,
11
          total_amount DECIMAL(10,2) NOT NULL,
12
         FOREIGN KEY (product_id) REFERENCES products(product_id) ON DELETE CASCADE
13
14
      );
15
```

**Step 2 :** Start a Transaction.



**Step 3 :** Insert a New Product & Insert a New Order.

```
INSERT INTO products (product_id, product_name, price, stock_quantity)

VALUES (2, 'Tablet', 500.00, 20);

INSERT INTO orders (customer_id, product_id, order_date, total_amount)

VALUES (3, 2, '2025-02-14', 500.00);
```

**Step 4:** Commit the Transaction.

**Step 5 :** Start Another Transaction and Update the products Table.

```
Limit to 1000 rows

Limit to 1000 rows

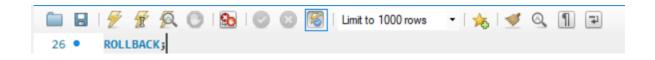
START TRANSACTION;

UPDATE products

SET stock_quantity = stock_quantity - 2

WHERE product_id = 2;
```

Step 6: Rollback the Stock Update.



**Step 7:** Verify the Results.

