

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.

SOLUTION:

```
CREATE TABLE orders (  
    order_id INT PRIMARY KEY,  
    customer_id INT,  
    order_date DATE,  
    total_amount DECIMAL(10, 2)  
);
```

```
INSERT INTO orders (order_id, customer_id, order_date,  
total_amount) VALUES  
(101, 1, '2024-05-01', 100.00),  
(102, 3, '2024-05-03', 150.00),  
(103, 2, '2024-05-05', 200.00),  
(104, 2, '2024-05-10', 180.00),  
(105, 4, '2024-05-12', 120.00);
```

```
CREATE TABLE products (
```

```
product_id INT PRIMARY KEY,  
product_name VARCHAR(100),  
stock_quantity INT  
);
```

```
INSERT INTO products (product_id, product_name,  
stock_quantity) VALUES  
(123, 'Product A', 50),  
(124, 'Product B', 100),  
(125, 'Product C', 75);
```

```
START TRANSACTION;
```

```
INSERT INTO orders (order_id, customer_id, order_date,  
total_amount)  
VALUES (106, 1, '2024-05-15', 180.00);
```

```
COMMIT;
```

```
UPDATE products
```

```
SET stock_quantity = stock_quantity - 1
```

```
WHERE product_id = 123;
```



```
ROLLBACK;
```




OUTPUT:

1 • `SELECT * FROM assign11.orders;`

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Result Grid

  Filter Rows:



Edit:   



	order_id	customer_id	order_date	total_amount
▶	101	1	2024-05-01	100.00
	102	3	2024-05-03	150.00
	103	2	2024-05-05	200.00
	104	2	2024-05-10	180.00
	105	4	2024-05-12	120.00
	106	1	2024-05-15	180.00
*	NULL	NULL	NULL	NULL

1 • `SELECT * FROM assign11.products;`

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Result Grid

  Filter Rows:

Edit:  

	product_id	product_name	stock_quantity
▶	123	Product A	49
	124	Product B	100
	125	Product C	75
*	NULL	NULL	NULL