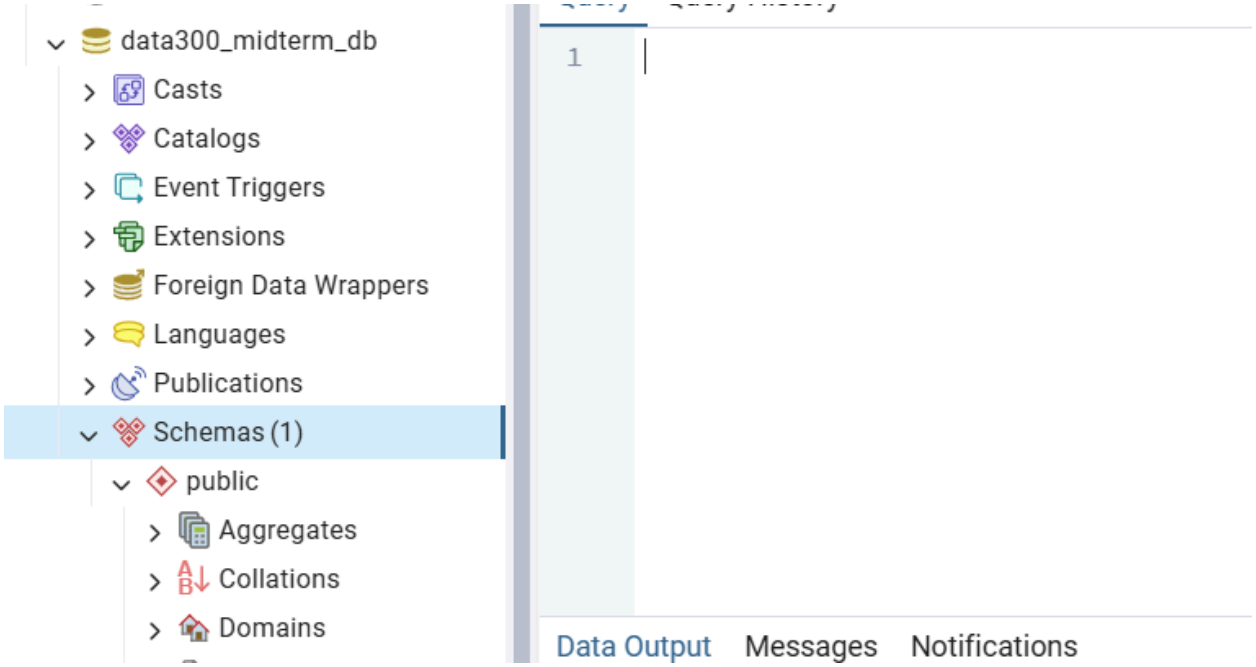
Name: Min Thant Hein
ID: PIUS20230001

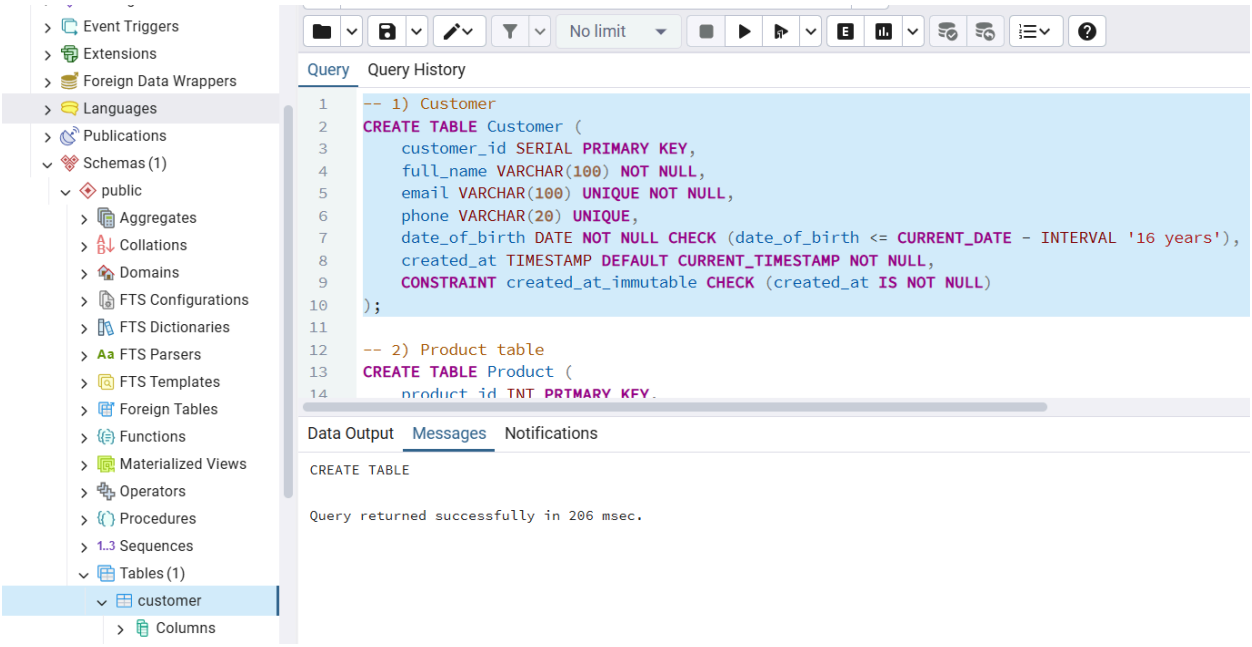
Created the database “data300_midterm_db”:



#
##

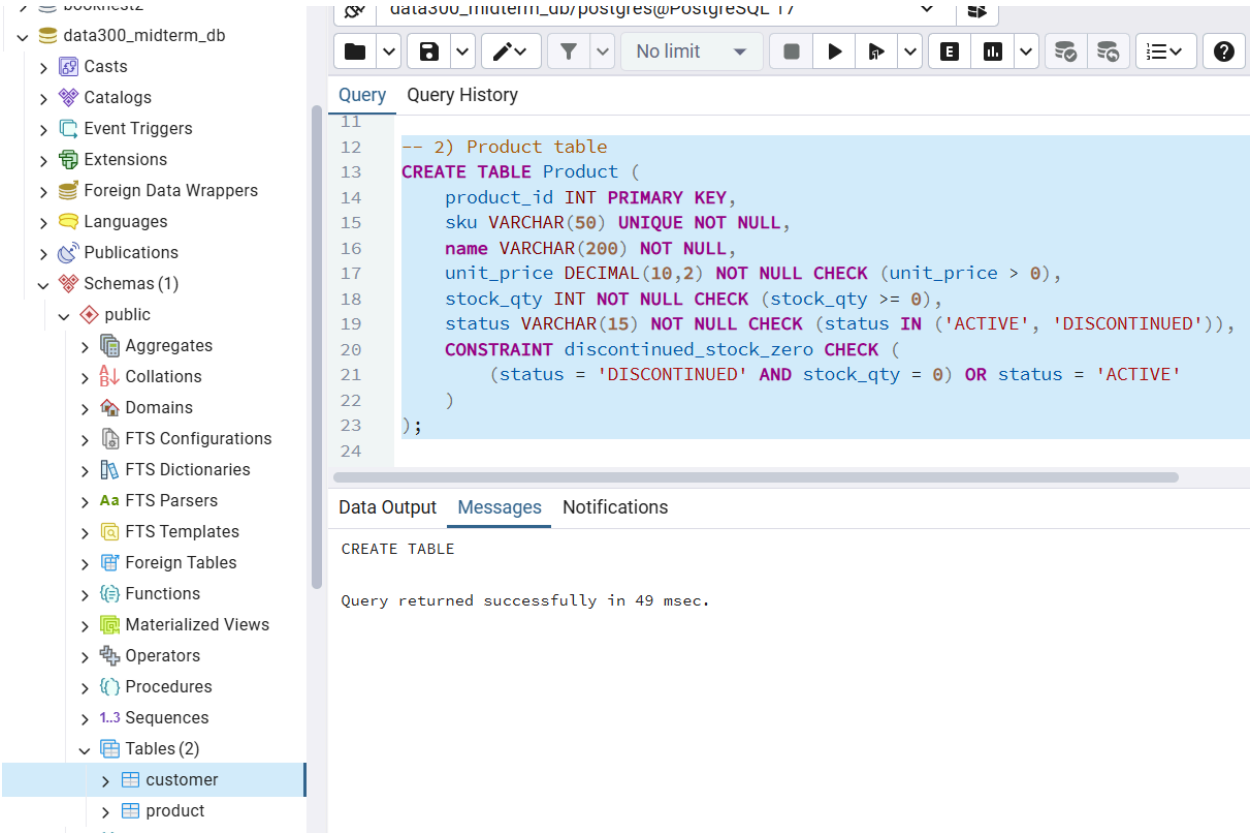
Creating tables:

Creating Customer table:



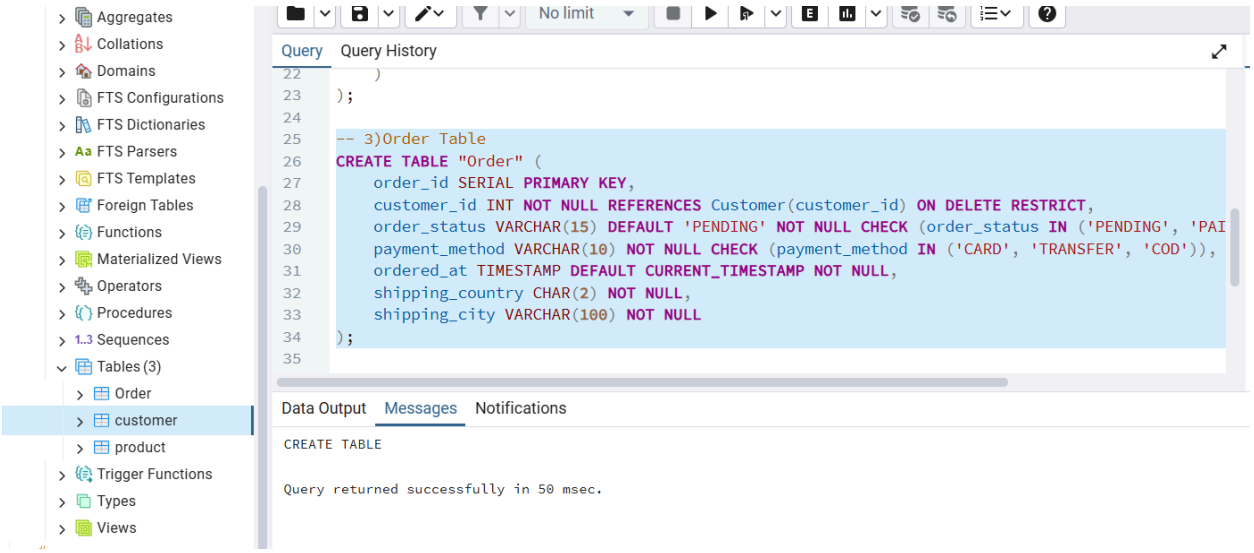
#

Creating Product table:



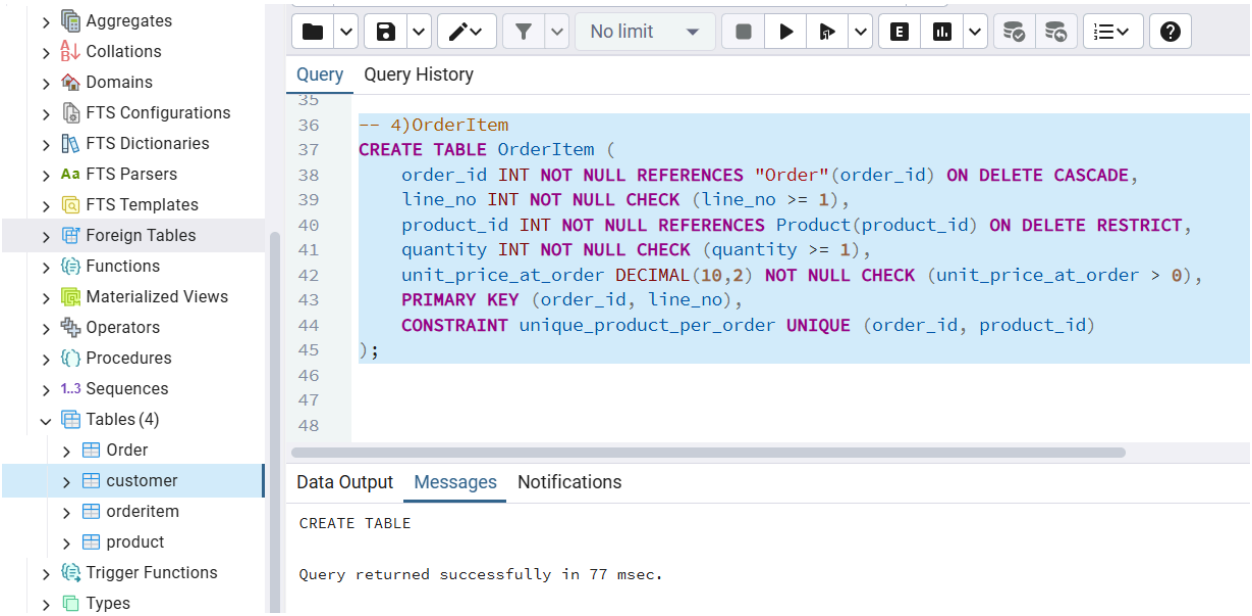
#

Creating “Order” Table:



#

Creating OrderItem Table:

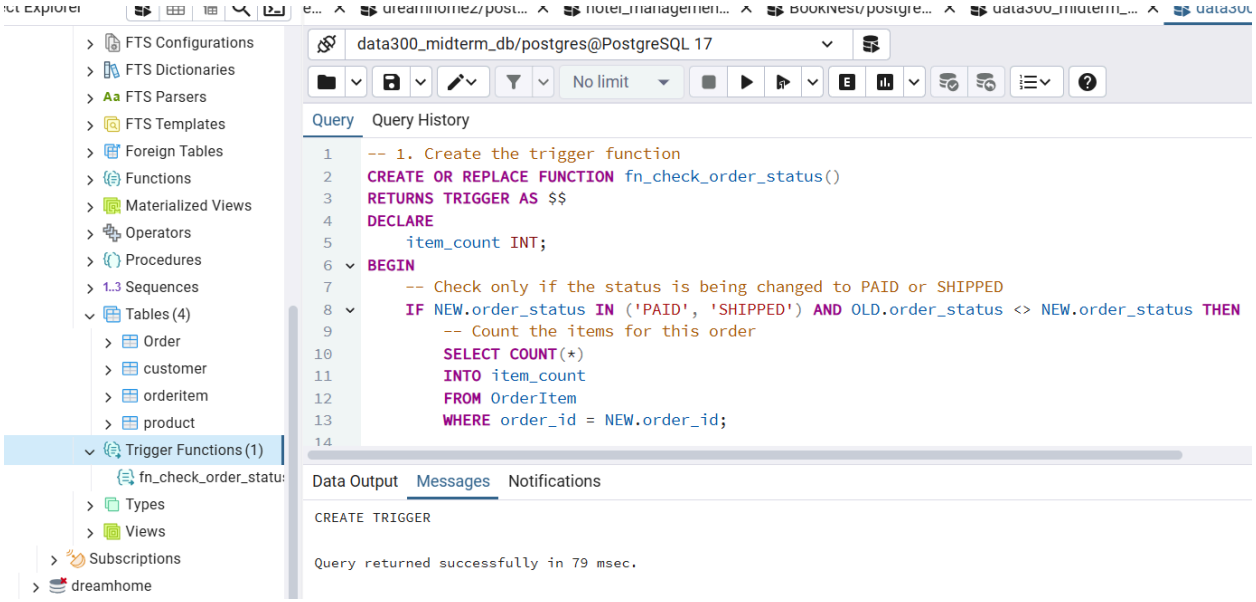


#

Cross-table business rules to enforce:

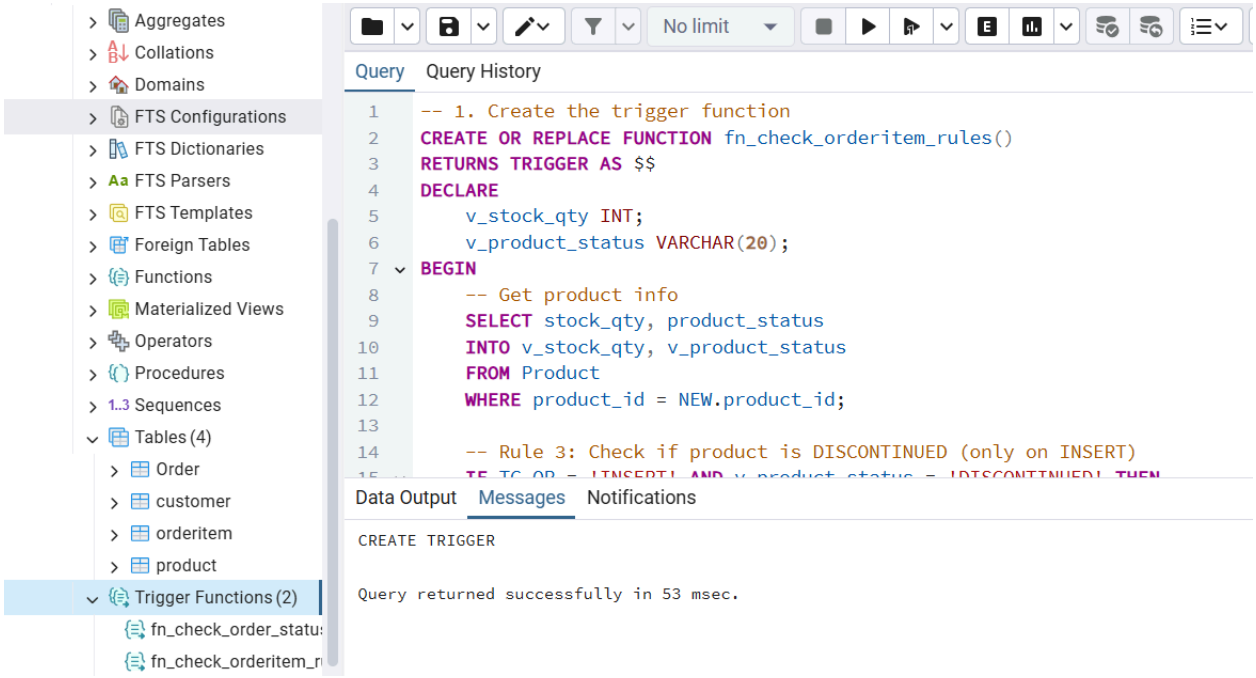
Running the trigger function, “fn_check_order_status”:

This trigger handles the UPDATE key on the Order table!



To prevent deleting the last item from a 'PAID' or 'SHIPPED' order, I also add a similar trigger on the OrderItem table.
#

Running the trigger for rule2 and rule3 for OrderItem table:



#

Inserting Data:

Insertion Data into Customer table:

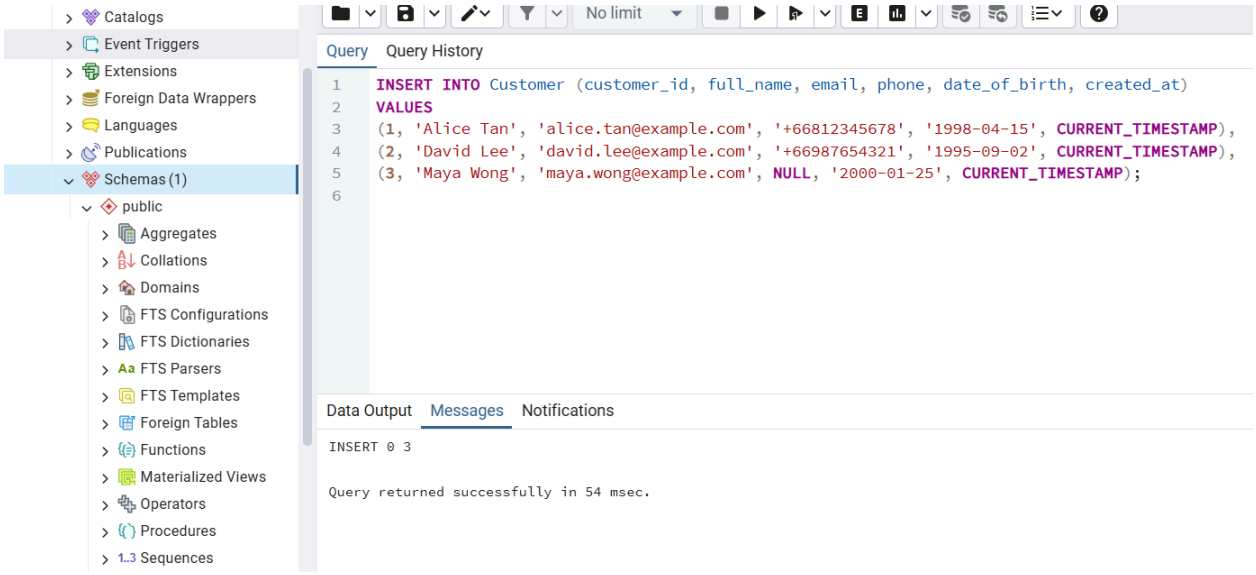
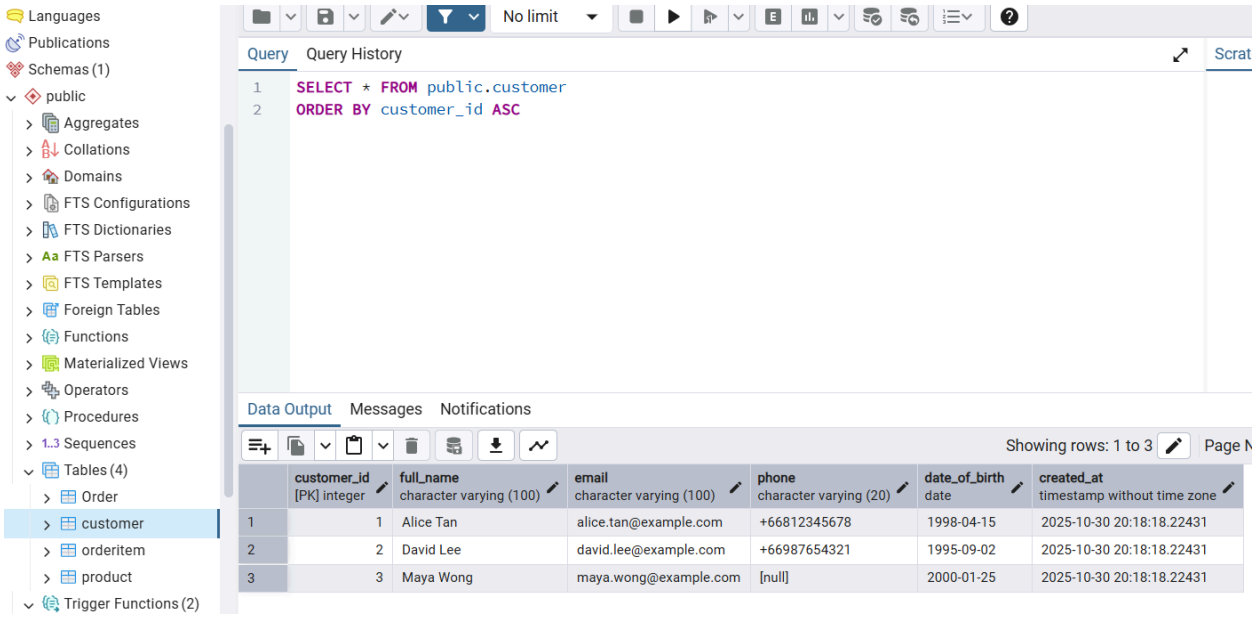
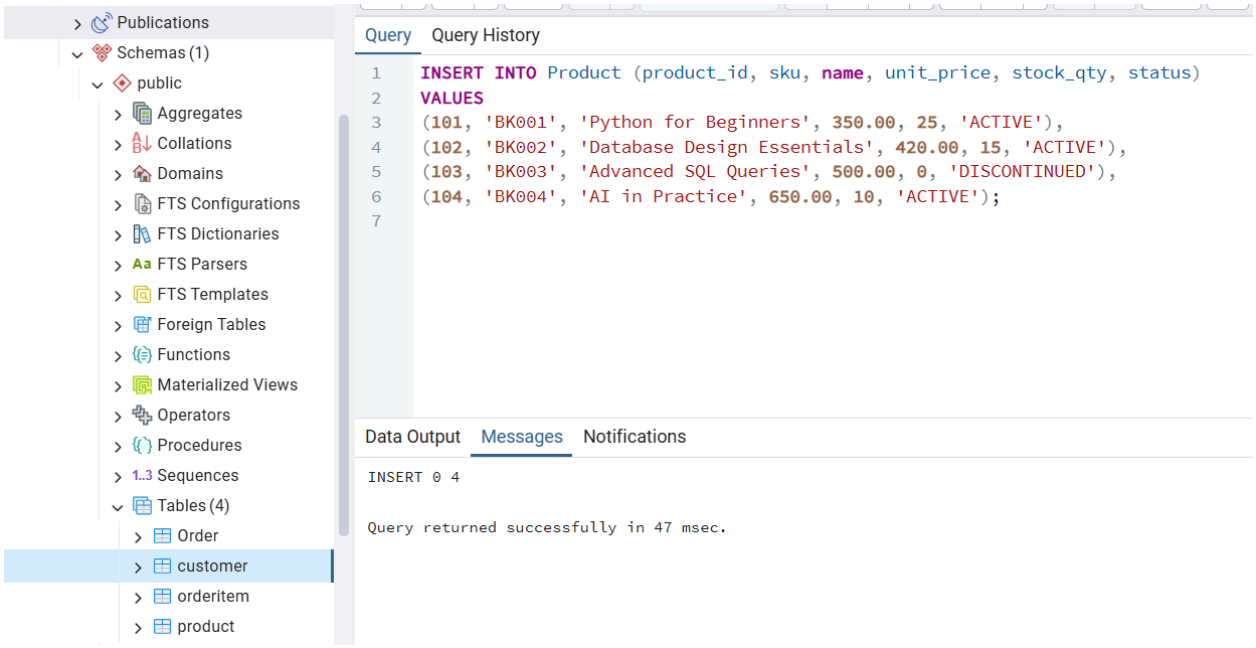


Table view:



##

Insertion Data into Product table:



#

Table view:

Query | Query History

```
1  SELECT * FROM public.product
2  ORDER BY product_id ASC
```

Data Output | Messages | Notifications

Showing rows: 1 to 4

	product_id [PK] integer	sku character varying (50)	name character varying (200)	unit_price numeric (10,2)	stock_qty integer	status character varying (15)
1	101	BK001	Python for Beginners	350.00	25	ACTIVE
2	102	BK002	Database Design Essentials	420.00	15	ACTIVE
3	103	BK003	Advanced SQL Queries	500.00	0	DISCONTINUED
4	104	BK004	AI in Practice	650.00	10	ACTIVE

##

Insertion Data into Order table:

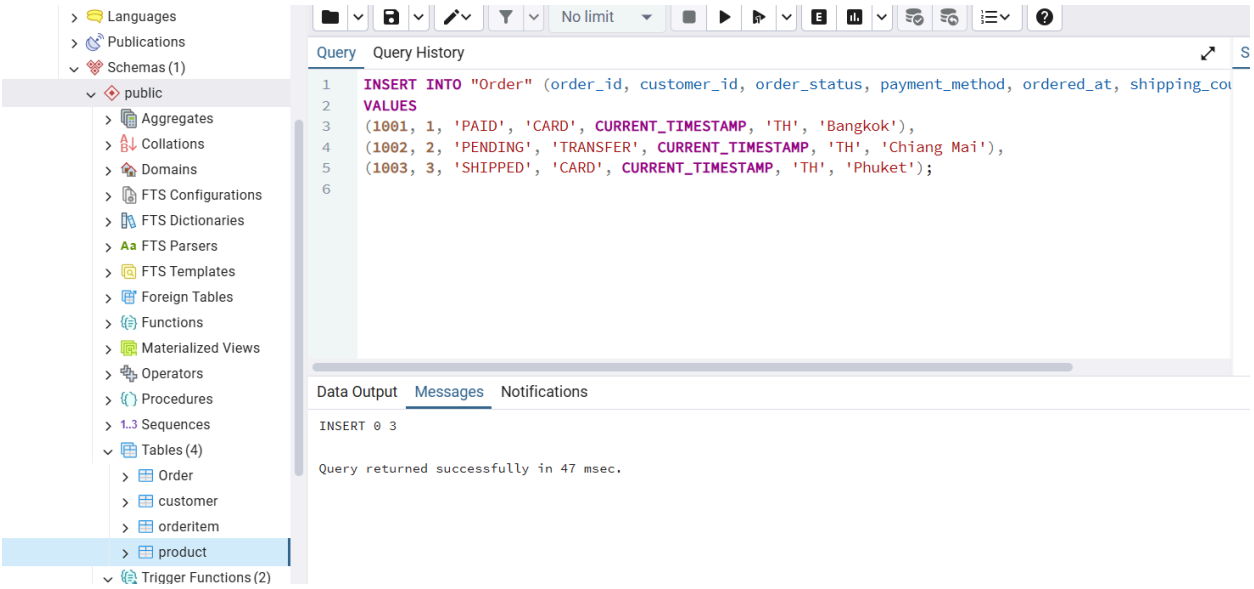
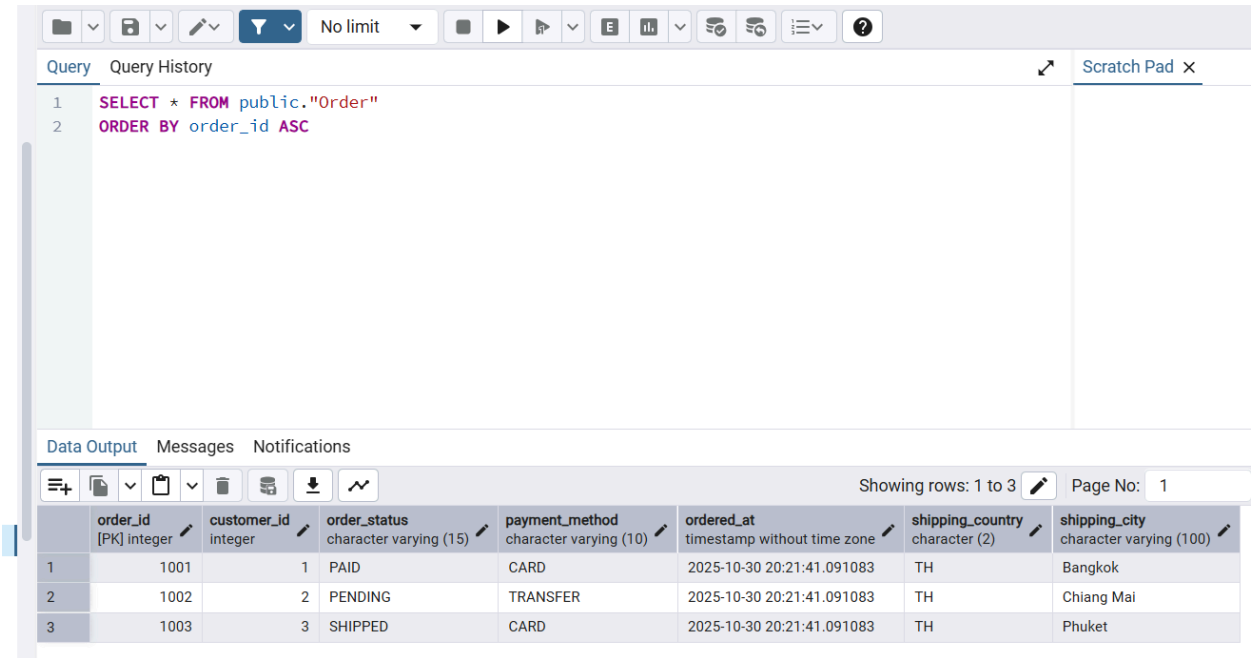


Table view:



##

Insertion Data into OrderItem table:

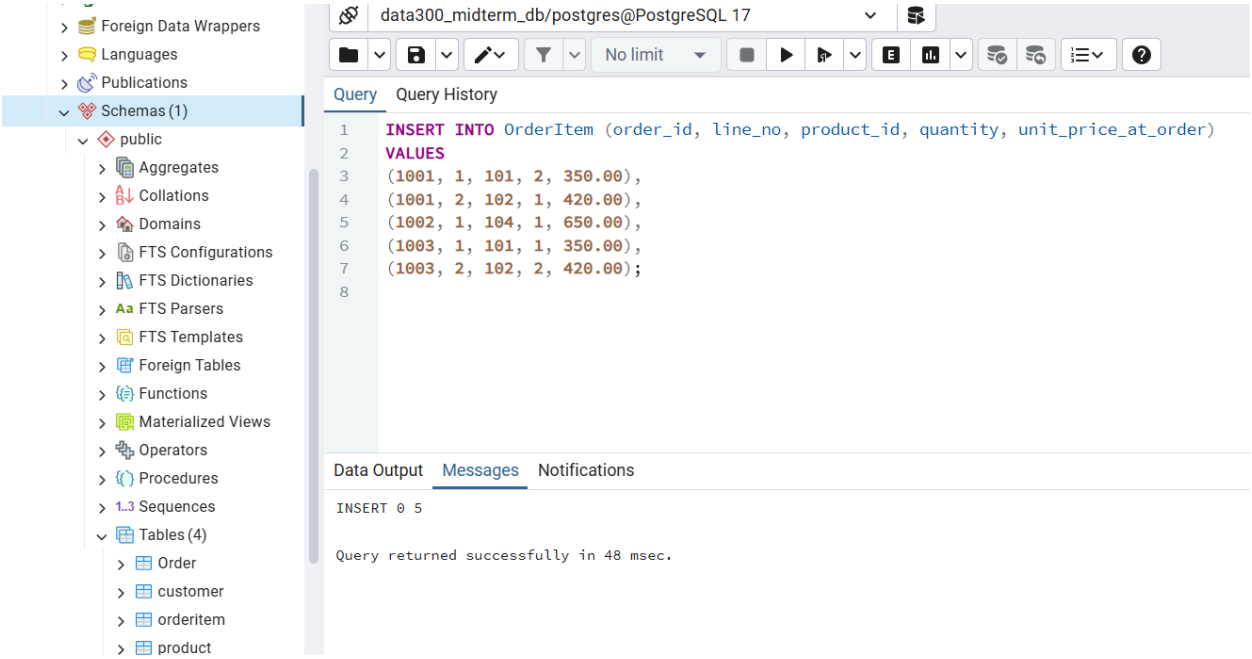
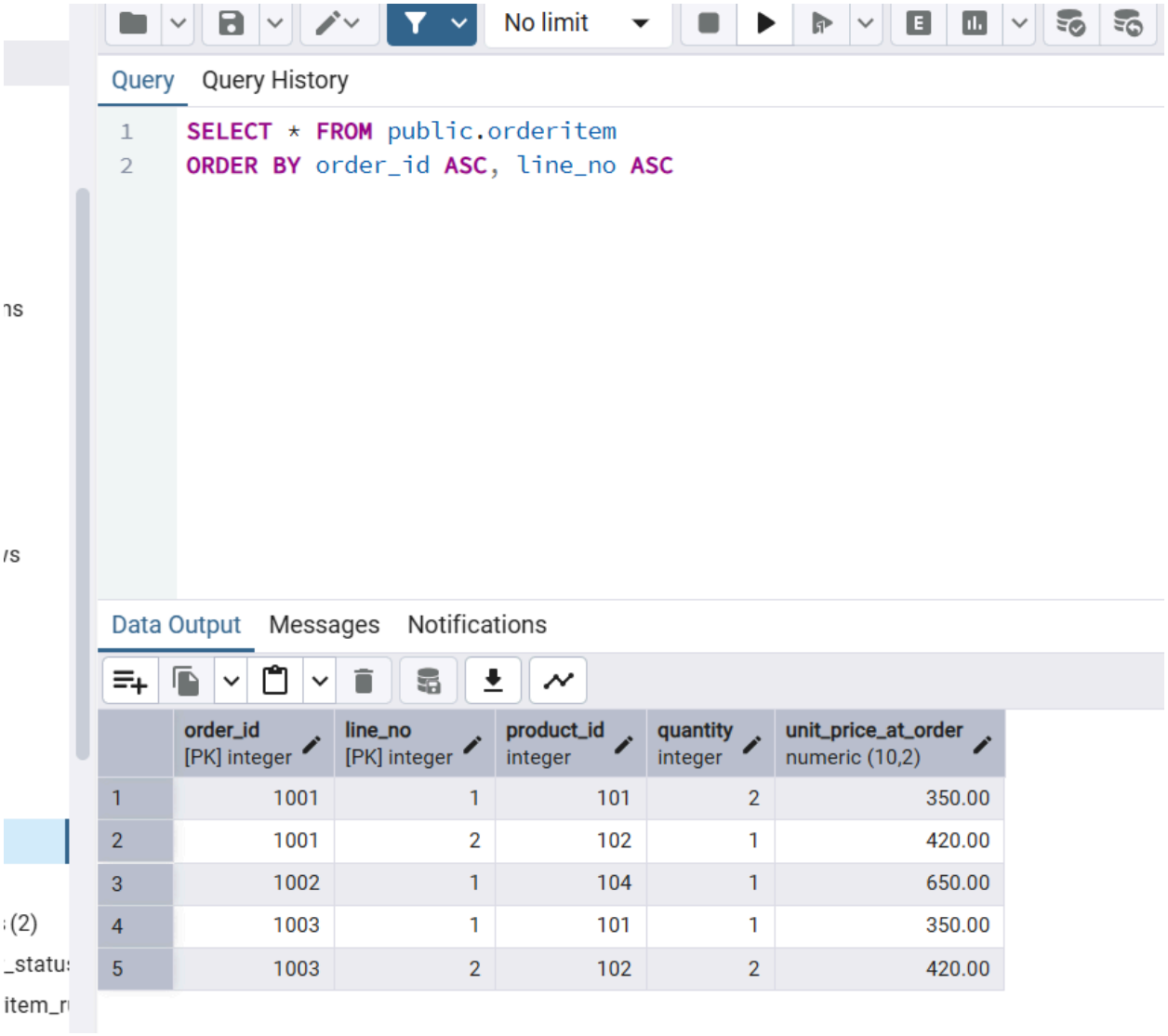


Table view:



	order_id [PK] integer	line_no [PK] integer	product_id integer	quantity integer	unit_price_at_order numeric (10,2)
1	1001	1	101	2	350.00
2	1001	2	102	1	420.00
3	1002	1	104	1	650.00
4	1003	1	101	1	350.00
5	1003	2	102	2	420.00

##