**SQL Views**

# Fetch the order summary (to be given to client / vendor)

**create view order\_summary as**

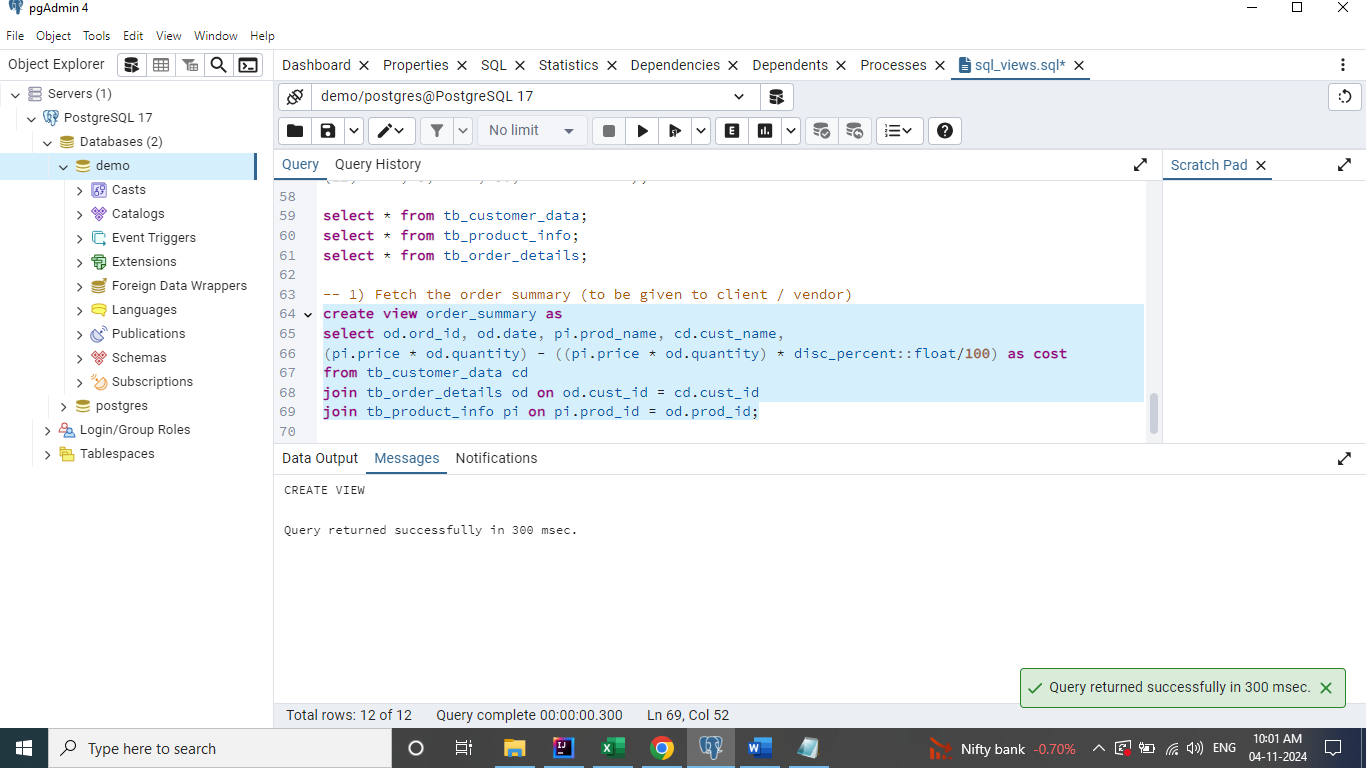
**select od.ord\_id, od.date, pi.prod\_name, cd.cust\_name,**

**(pi.price \* od.quantity) - ((pi.price \* od.quantity) \* disc\_percent::float/100) as cost**

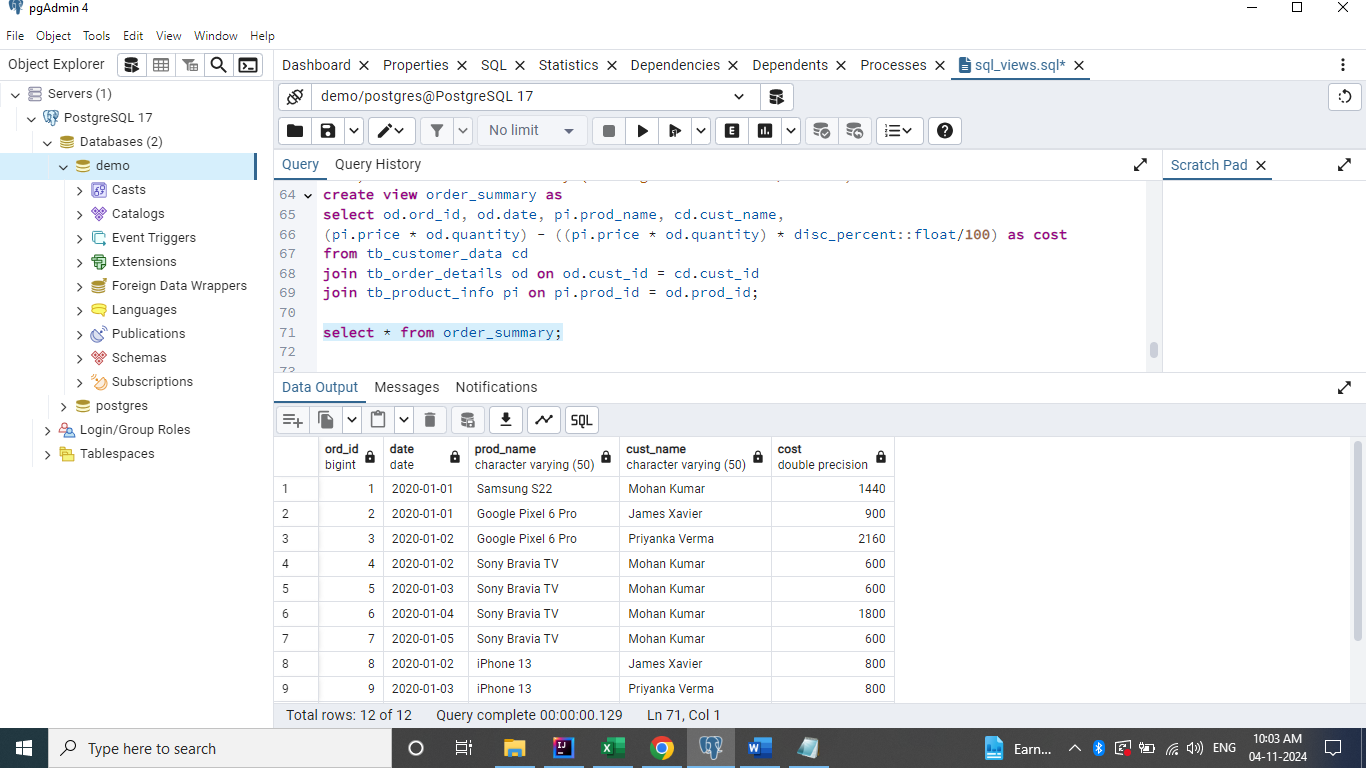
**from tb\_customer\_data cd**

**join tb\_order\_details od on od.cust\_id = cd.cust\_id**

**join tb\_product\_info pi on pi.prod\_id = od.prod\_id;**



**select \* from order\_summary;**



# 2. What is the main purpose of using a view / advantage of view.

**-- 1) Security**

**-- 2) To simplify the complex sql queries.**

## Create User

**create role john**

**login**

**password 'john';**

## Provide Access to Order Summary View

**grant select on order\_summary to john;**

## 1) Security

**In this scenario, we have created a new user 'John' and gave him the read access to the order summary view. By hiding the query used to generate the view.**

## 2) To simplify the complex sql queries.

**i. Sharing a view is better than sharing a complex query.**

**ii. Avoid rewriting the same complex query multiple times.**

# Create or Replace View

Whenever we are using the Create or Replace View command, we have to follow below rules.

1. Cannot change the column name.
2. Cannot change the column data type.
3. Cannot change the order of columns. But we can add new column at the end.

**create or replace view order\_summary as**

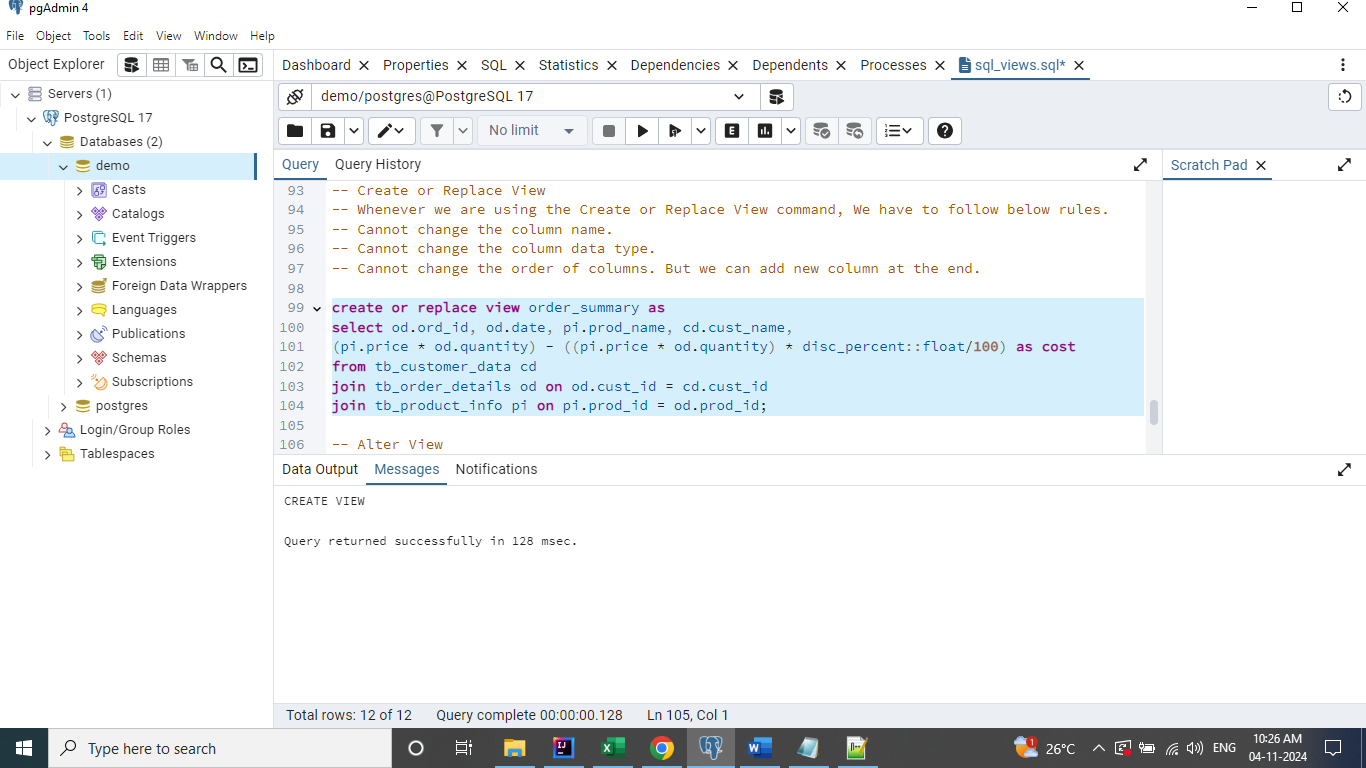
**select od.ord\_id, od.date, pi.prod\_name, cd.cust\_name,**

**(pi.price \* od.quantity) - ((pi.price \* od.quantity) \* disc\_percent::float/100) as cost**

**from tb\_customer\_data cd**

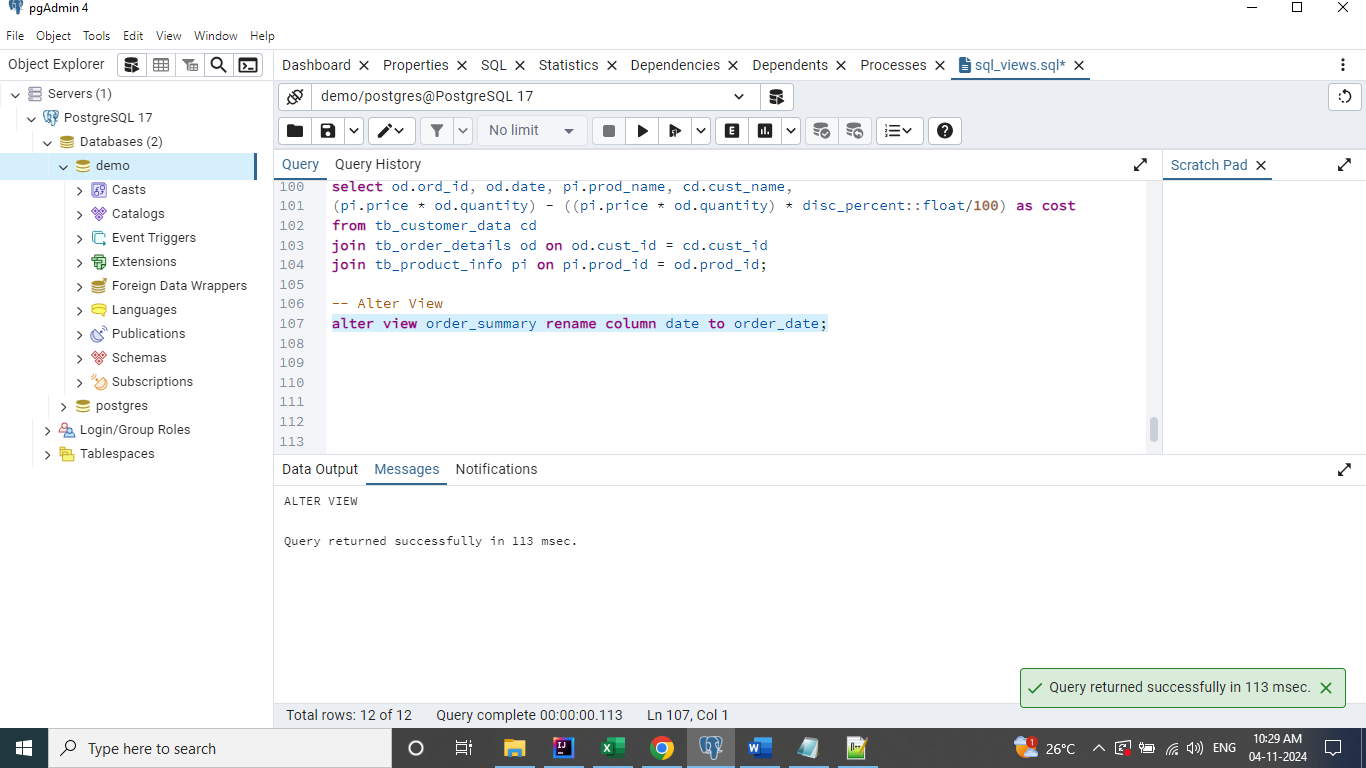
**join tb\_order\_details od on od.cust\_id = cd.cust\_id**

**join tb\_product\_info pi on pi.prod\_id = od.prod\_id;**



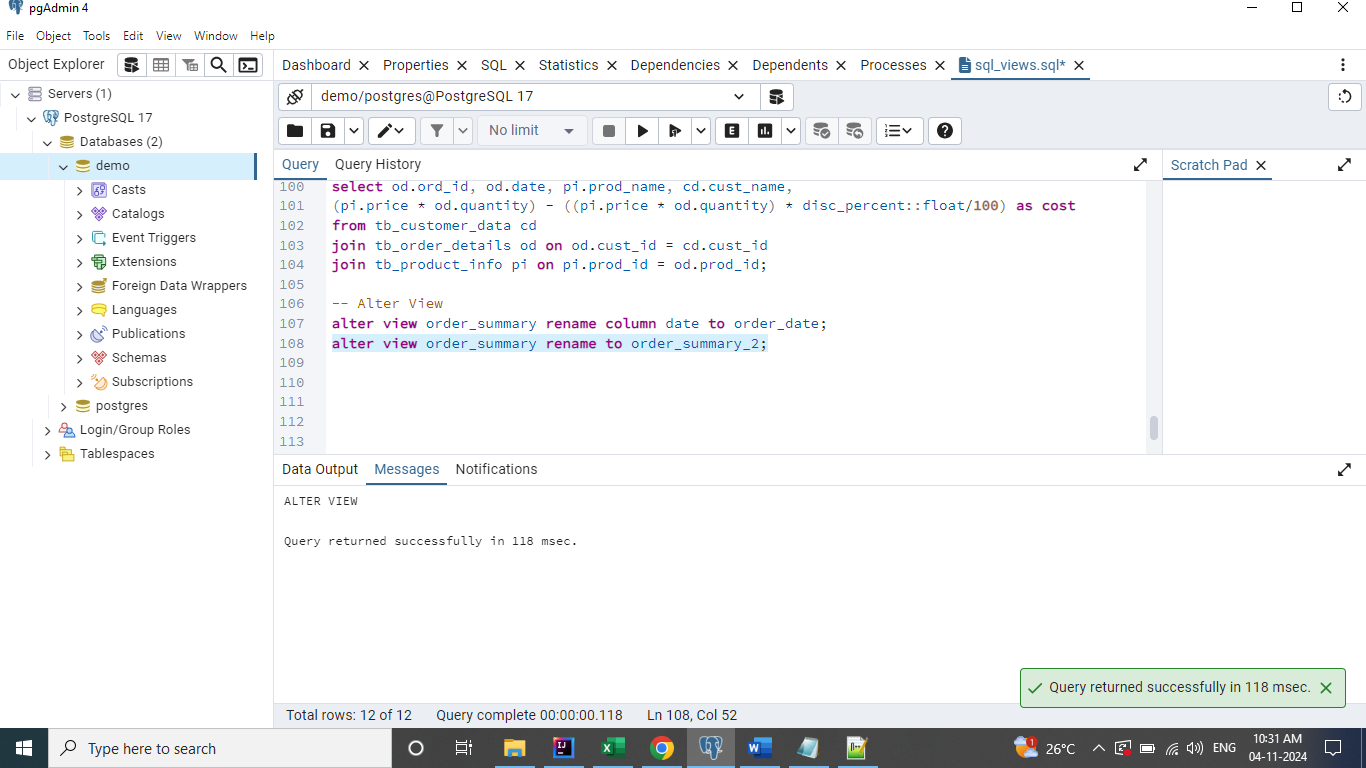
# Alter View

**alter view order\_summary rename column date to order\_date;**



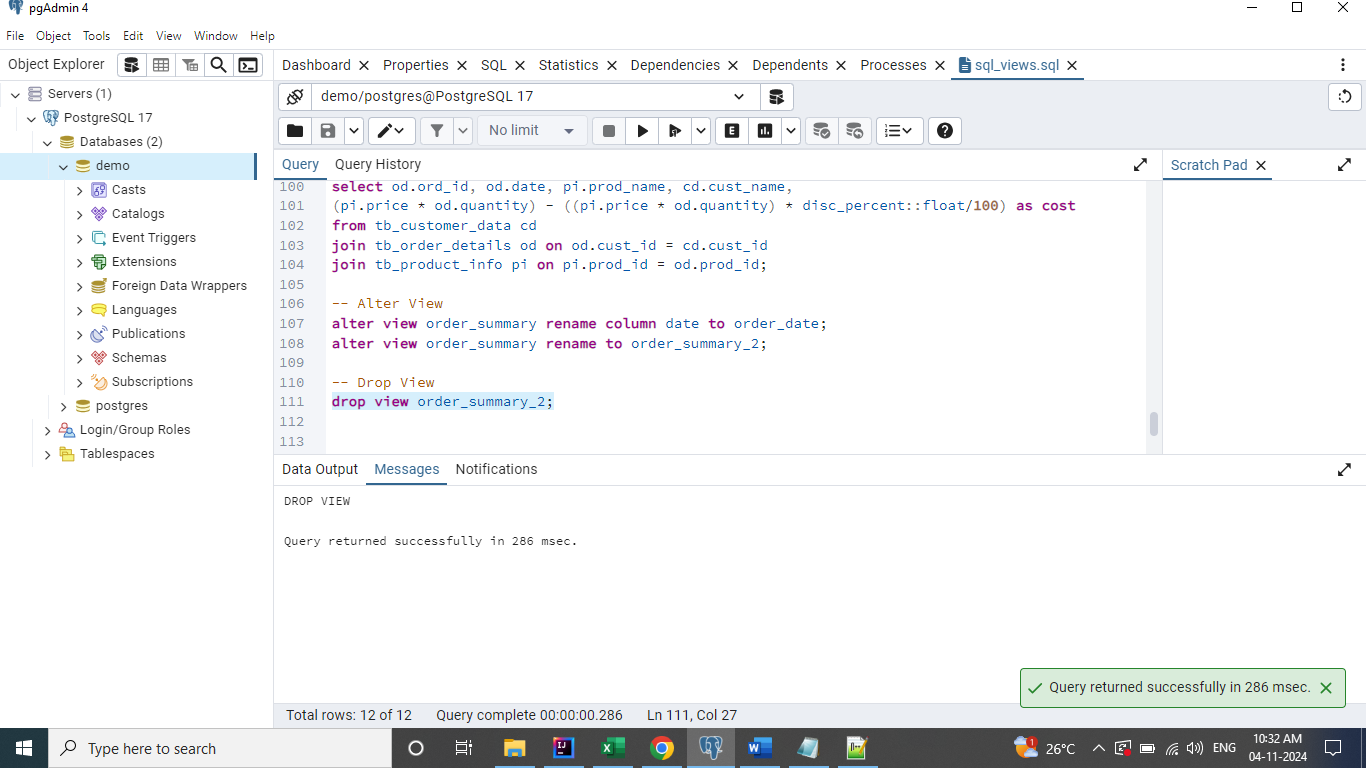
We can also rename the view using the alter command.

**alter view order\_summary rename to order\_summary\_2;**



# Drop View

**drop view order\_summary\_2;**



# Update View

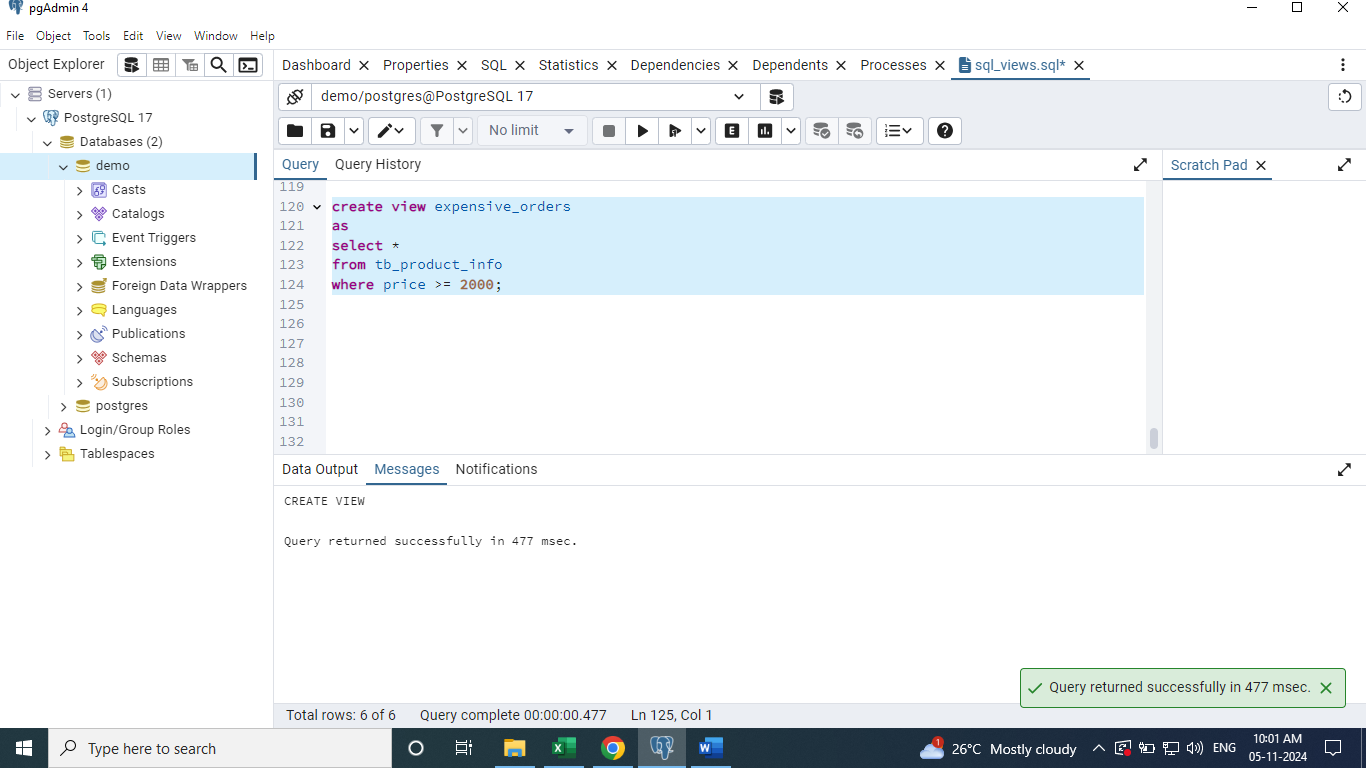
**create view expensive\_orders**

**as**

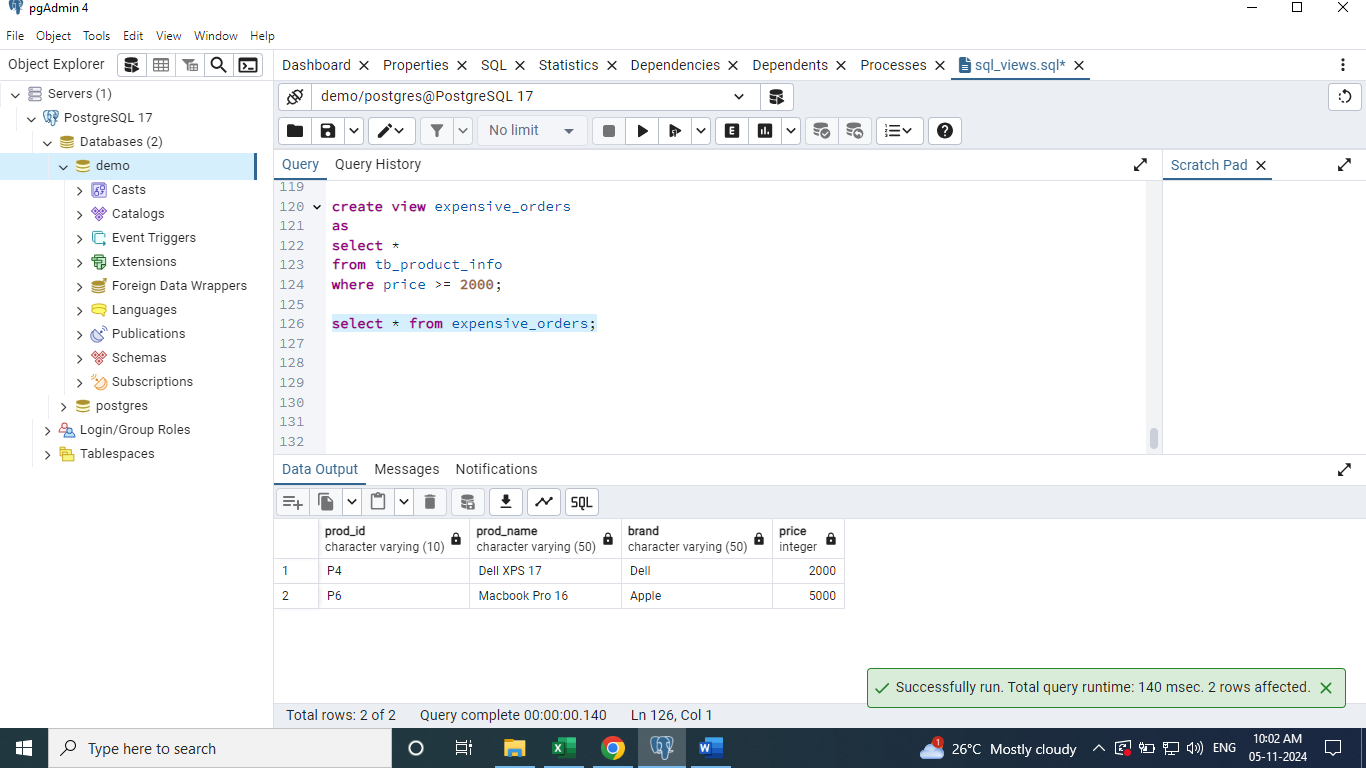
**select \***

**from tb\_product\_info**

**where price >= 2000;**



**select \* from expensive\_orders;**



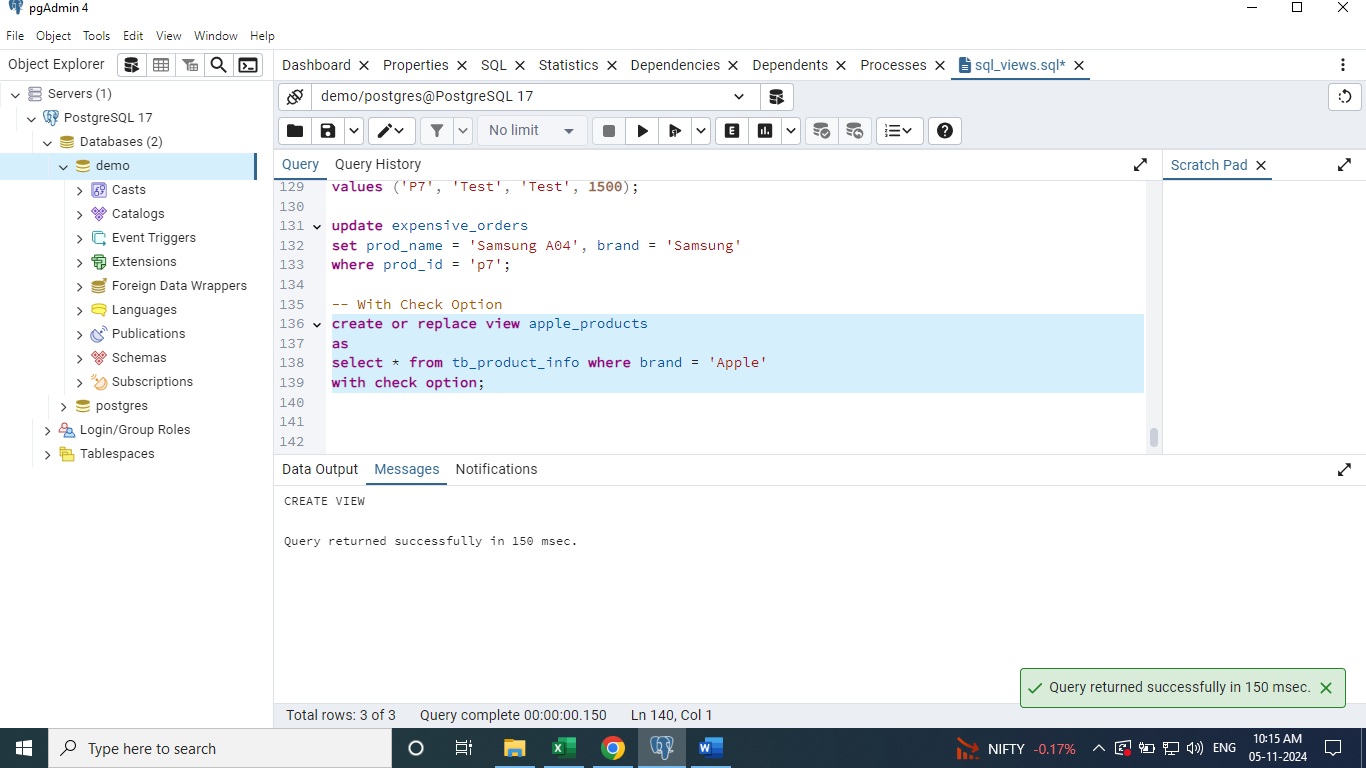
# With Check Option

**create or replace view apple\_products**

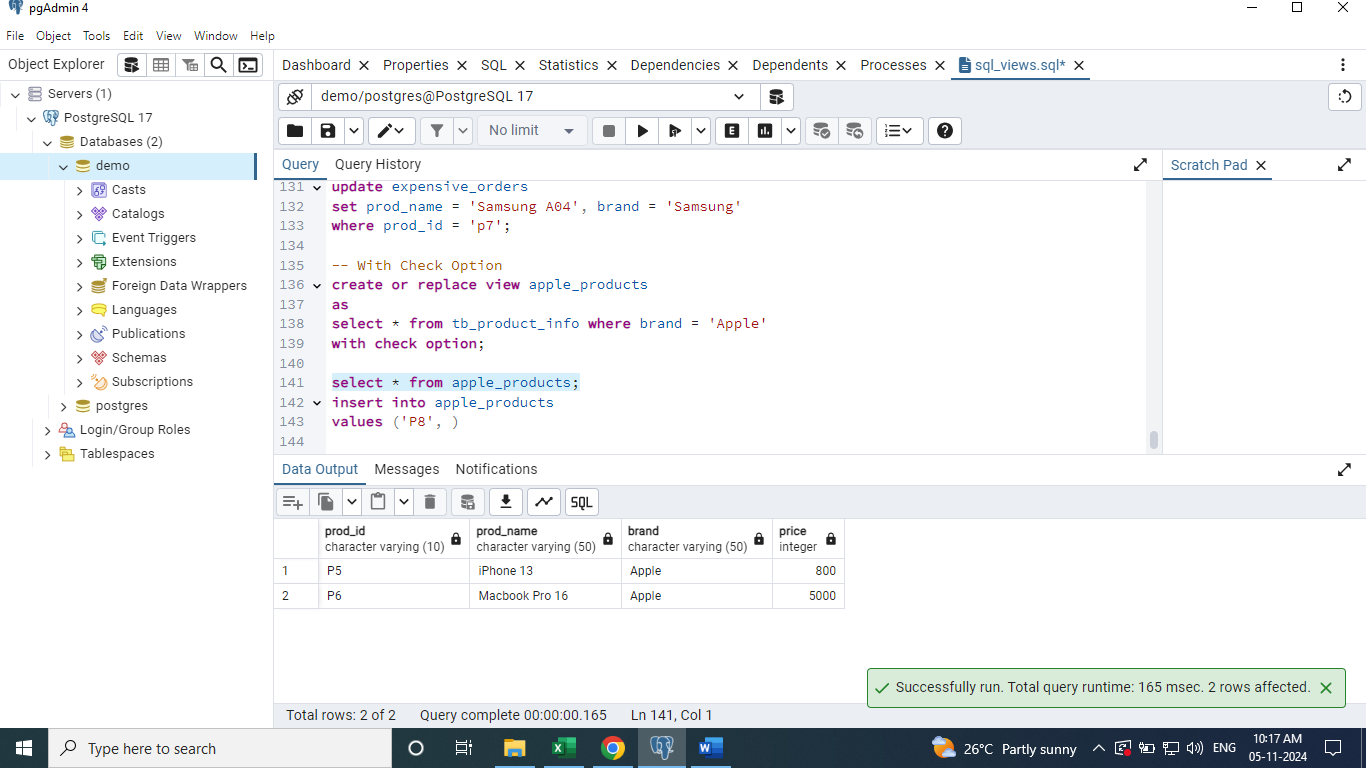
**as**

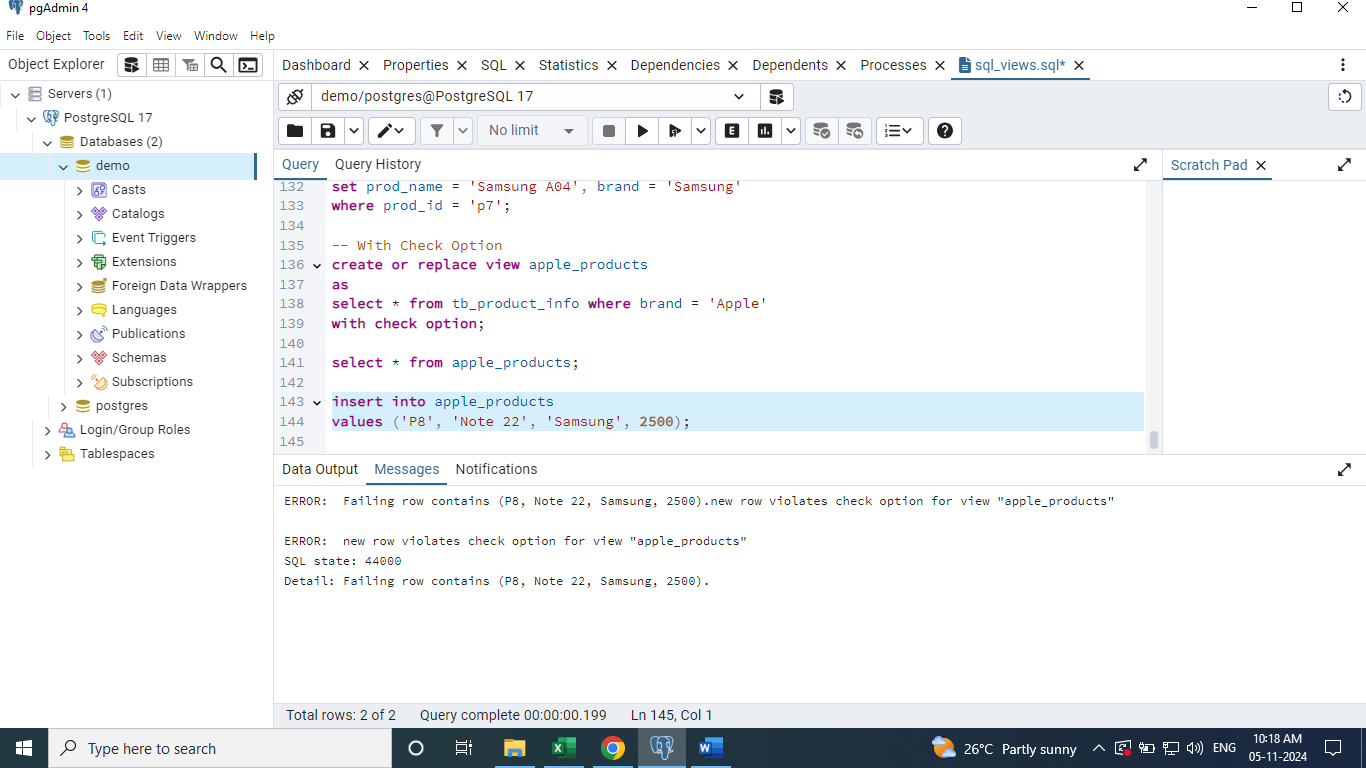
**select \* from tb\_product\_info where brand = 'Apple'**

**with check option;**



**select \* from apple\_products;**





**insert into apple\_products**

**values ('P8', 'Air buds', 'Apple', 2500);**

