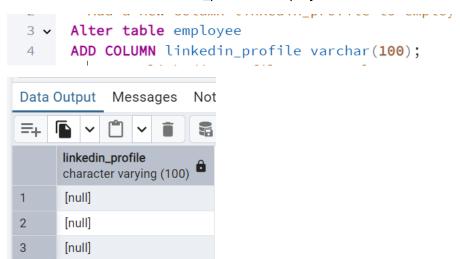
# Assignment 2

## Day2

- 1) Alter Table:
  - Add a new column linkedin\_profile to employees table to store LinkedIn URLs as varchar.



Change the linkedin\_profile column data type from VARCHAR to TEXT.

ALTER TABLE employee
ALTER COLUMN linkedin\_profile
SET DATA TYPE text;



Add unique, not null constraint to linkedin\_profile

```
--> updating the column with default value first

14 v UPDATE employee

15 SET linkedin_profile = CONCAT('https://linkedin.com/in/user_', employeeid);

16 --> adding not null constraint to the updated column

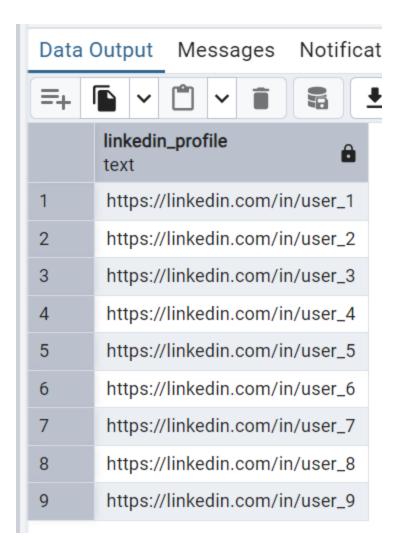
17 v ALTER TABLE employee

18 ALTER COLUMN linkedin_profile SET NOT NULL;

19 --> adding unique constraint

20 v ALTER TABLE employee

21 ADD CONSTRAINT unique_linkedin_profile UNIQUE (linkedin_profile);
```



• Drop column linkedin\_profile

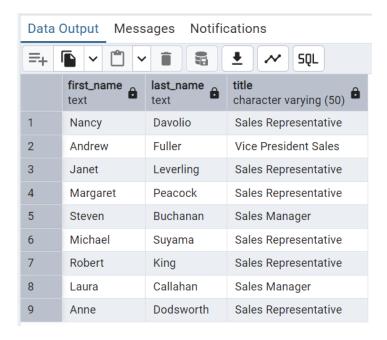
```
Data Output Messages Notifications

ERROR: column "linkedin_profile" does not exist
```

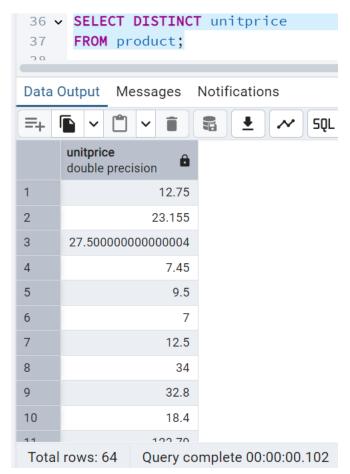
## 2) Querying (Select)

Retrieve the first name, last name, and title of all employees

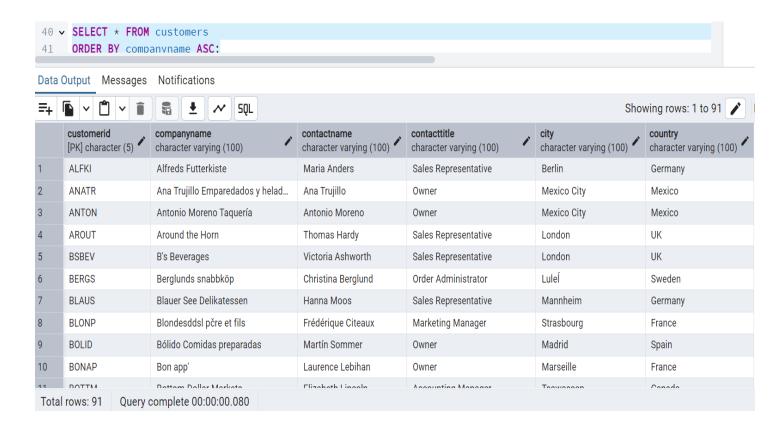
```
SELECT
split_part(employeename, ' ', 1) AS first_name,
substring(employeename FROM position(' ' IN employeename) + 1) AS last_name,
title
FROM employee;
```



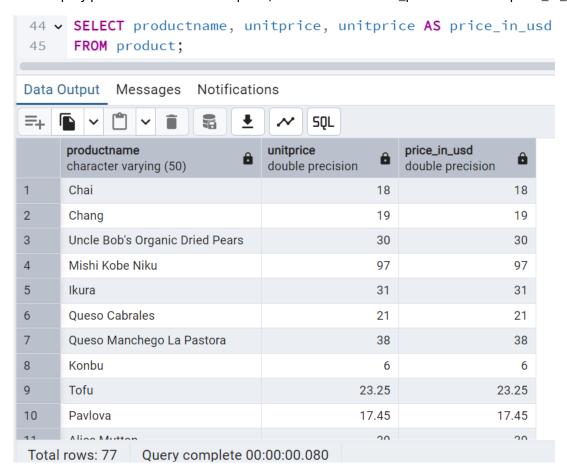
• Find all unique unit prices of products



• List all customers sorted by company name in ascending order

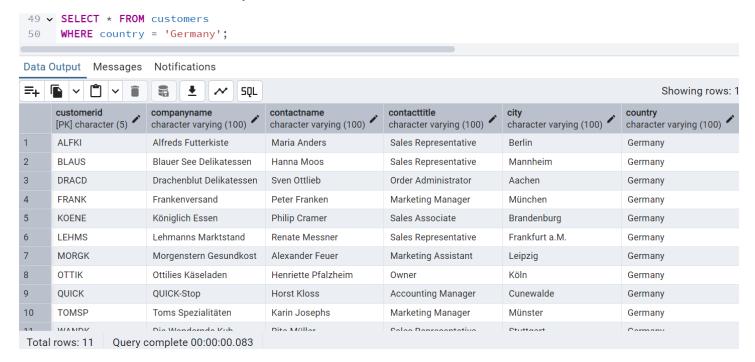


Display product name and unit price, but rename the unit\_price column as price\_in\_usd

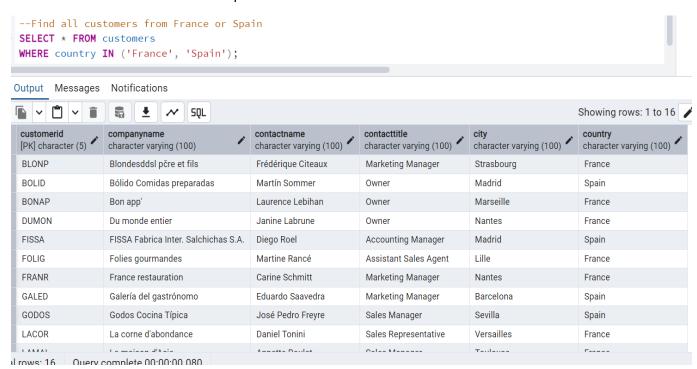


#### 3) Filtering

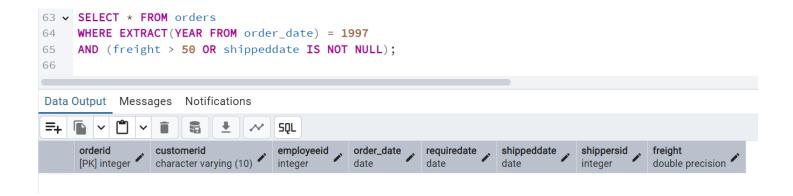
Get all customers from Germany.



• Find all customers from France or Spain

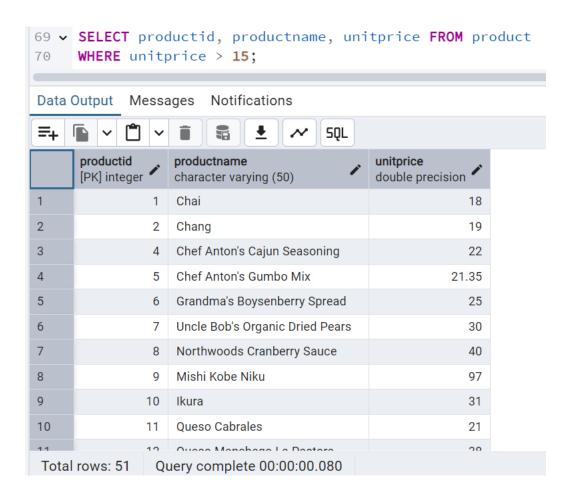


 Retrieve all orders placed in 1997 (based on order\_date), and either have freight greater than 50 or the shipped date available (i.e., non-NULL) (Hint: EXTRACT(YEAR FROM order\_date))



## 4) Filtering

• Retrieve the product\_id, product\_name, and unit\_price of products where the unit\_price is greater than 15.



List all employees who are located in the USA and have the title "Sales Representative".

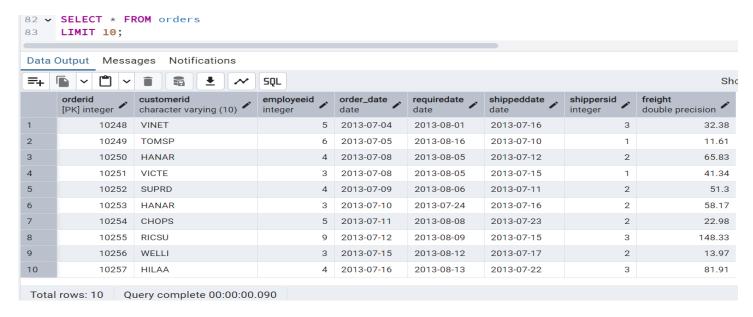


Retrieve all products that are not discontinued and priced greater than 30.

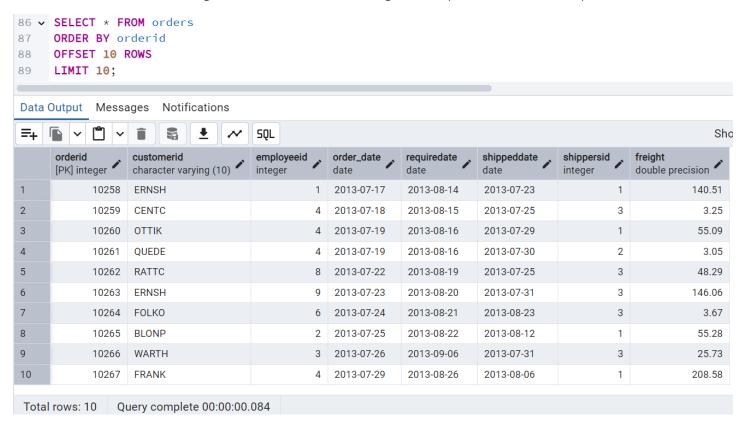


#### 5) LIMIT/FETCH

Retrieve the first 10 orders from the orders table

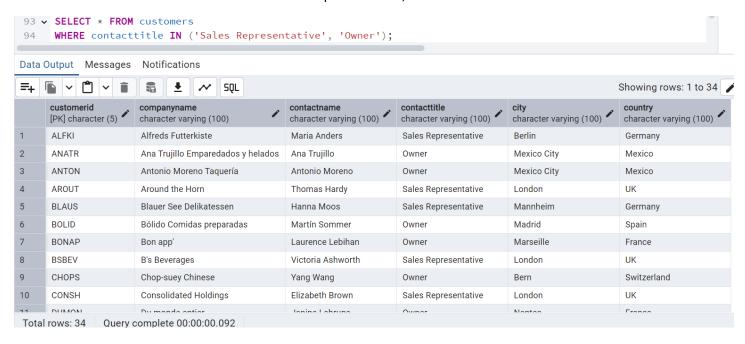


Retrieve orders starting from the 11th order, fetching 10 rows (i.e., fetch rows 11-20).

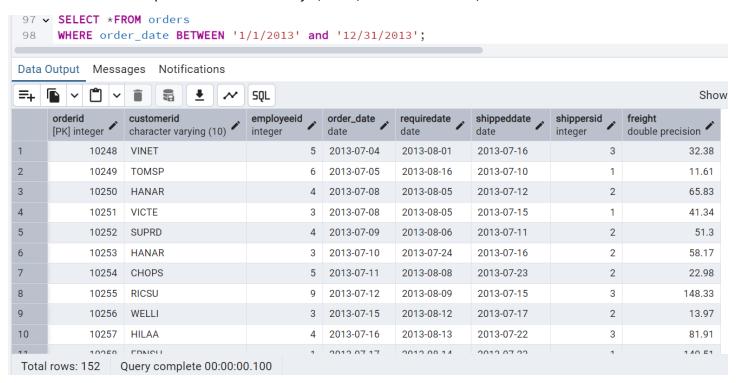


## 6) Filtering (IN, BETWEEN)

· List all customers who are either Sales Representative, Owner

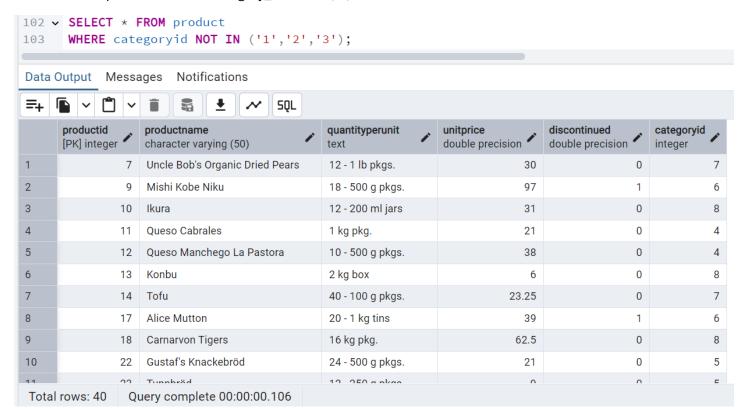


Retrieve orders placed between January 1, 2013, and December 31, 2013.

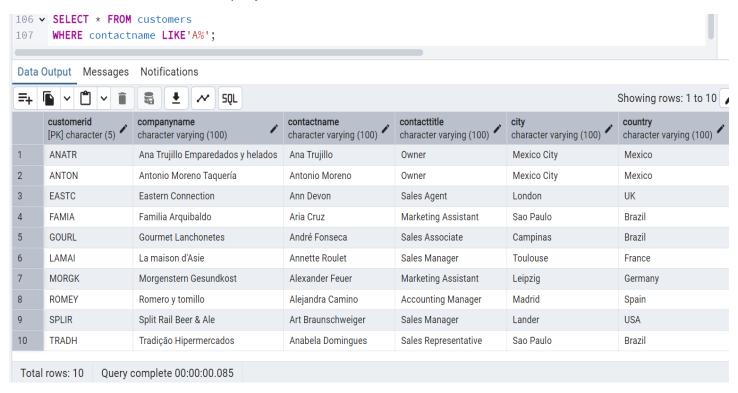


## 7) Filtering

List all products whose category\_id is not 1, 2, or 3.



Find customers whose company name starts with "A".



#### 8) INSERT into orders table:

Task: Add a new order to the orders table with the following details:

Order ID: 11078

Customer ID: ALFKI

Employee ID: 5

Order Date: 2025-04-23

Required Date: 2025-04-30

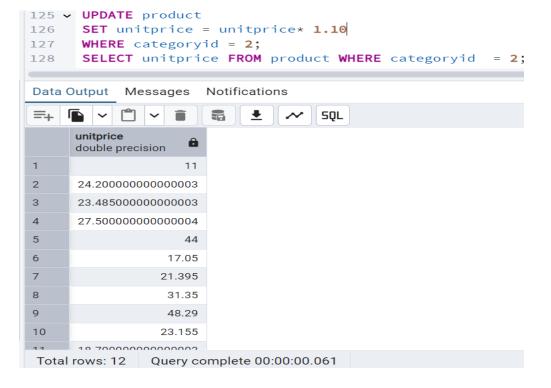
Shipped Date: 2025-04-25

shipperID:2

Freight: 45.50



9) Increase(Update) the unit price of all products in category\_id =2 by 10%.(HINT: unit\_price =unit\_price \* 1.10)



## 10) Sample Northwind database:

#### Download

- I. Download northwind.sql from below link into your local. Sign in to Git first <a href="https://github.com/pthom/northwind\_psql">https://github.com/pthom/northwind\_psql</a>
- II. Manually Create the database using pgAdmin:
  - A. Right-click on "Databases" → Create → Database
  - B. Give name as 'northwind' (all small letters)
  - C. Click 'Save'

## Import database:

- I. Open pgAdmin and connect to your server
- II. Select the database 'northwind'
- III. Right Click-> Query tool.
- IV. Click the folder icon to open your northwind.sql file
- V. Press F5 or click the Execute button.
- VI. You will see total 14 tables loaded
- VII. Databases → your database → Schemas → public → Tables
  - Tables (14)

    Tables (14)

    Categories

    Customer\_customer\_dem

    Customers

    Customers

    Employee\_territories

    Employees

    Order\_details

    Orders

    Employees

    Empl