/\*Alter Table:

1.Add a new column linkedin\_profile to employees table to store LinkedIn URLs as varchar.\*/

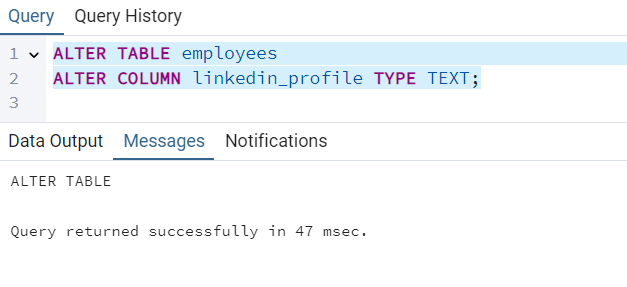
ALTER TABLE employees ADD COLUMN linkedin\_profile VARCHAR(100);



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

ALTER TABLE employees

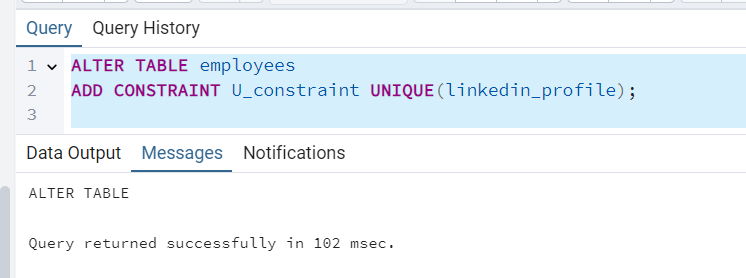
ALTER COLUMN linkedin\_profile TYPE TEXT;



3.Add unique, not null constraint to linkedin\_profile

ALTER TABLE employees

ADD CONSTRAINT U\_constraint UNIQUE(linkedin\_profile);



ALTER TABLE employees

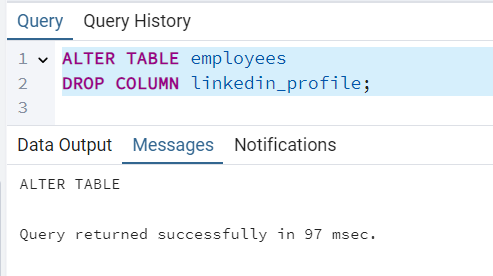
ALTER COLUMN linkedin\_profile SET NOT NULL;



4.Drop column linkedin\_profile

ALTER TABLE employees

DROP COLUMN linkedin\_profile;



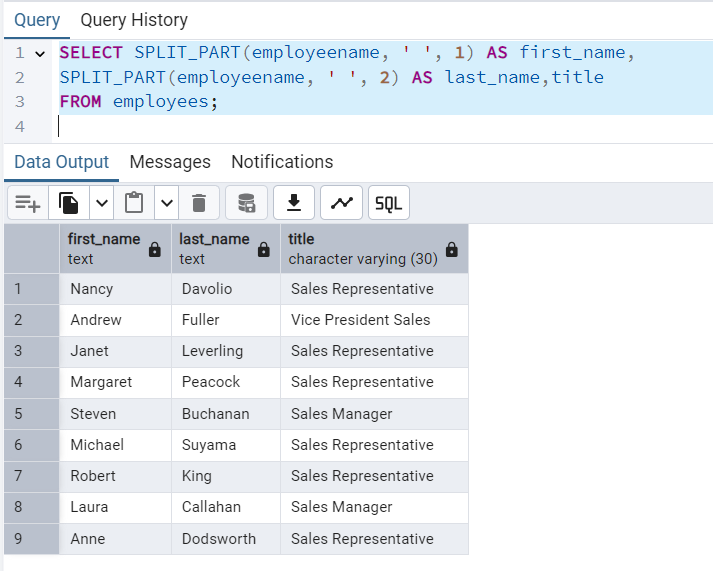
/\*Querying (Select)

1.Retrieve the first name, last name, and title of all employees\*/

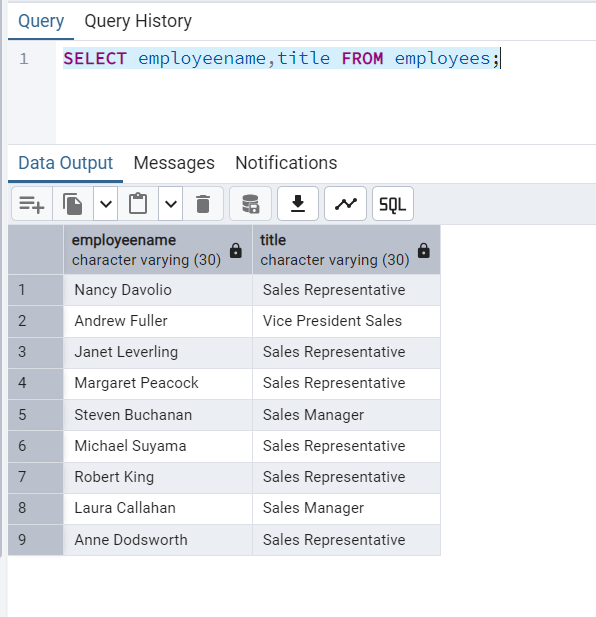
SELECT SPLIT\_PART(employeename, ' ', 1) AS first\_name,

SPLIT\_PART(employeename, ' ', 2) AS last\_name,title

FROM employees;

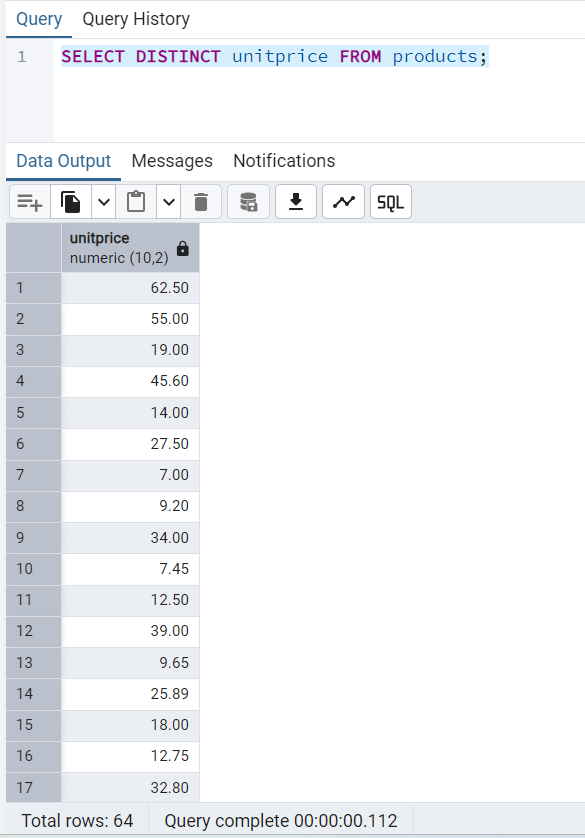


SELECT employeename,title FROM employees;



2.Find all unique unit prices of products

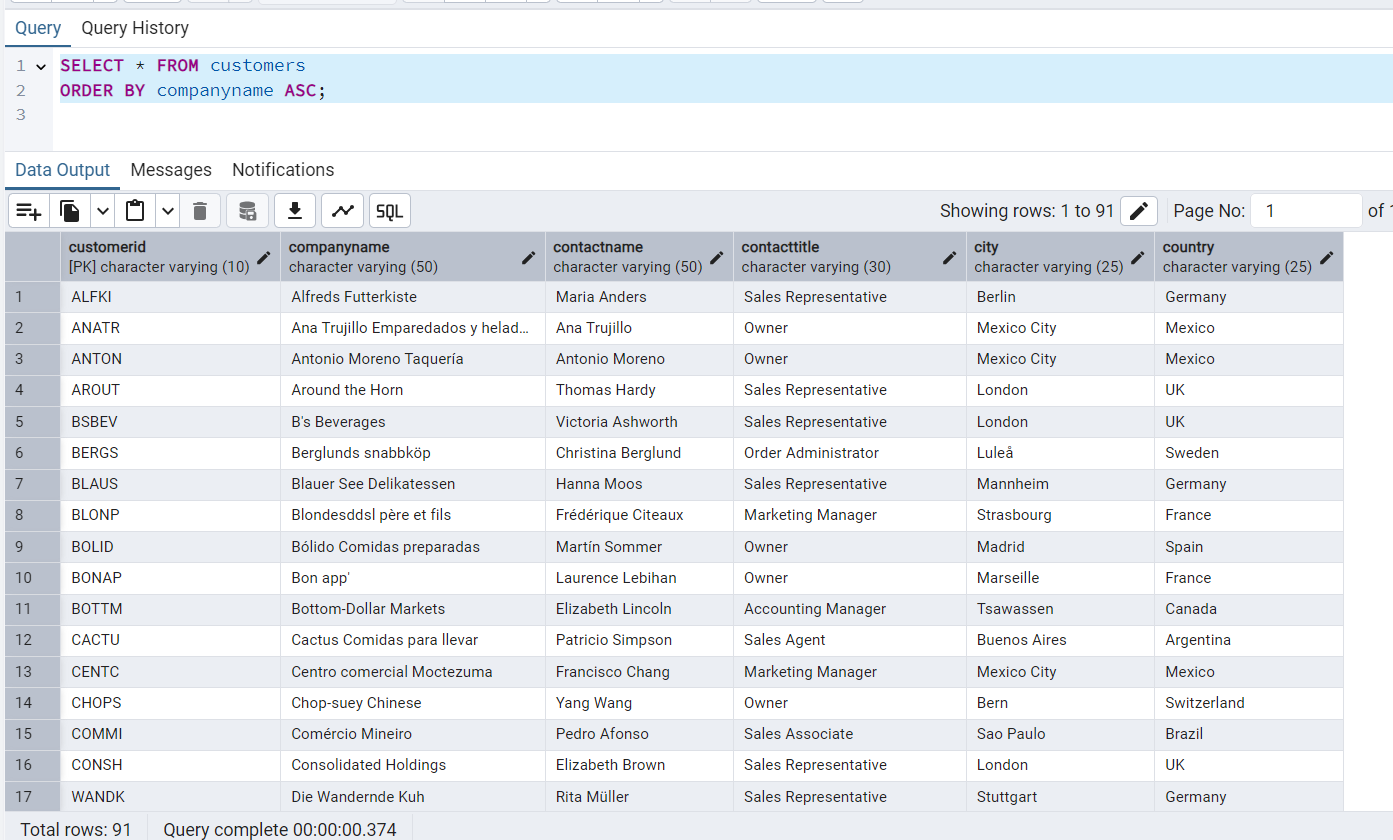
SELECT DISTINCT unitprice FROM products;



3.List all customers sorted by company name in ascending order

SELECT \* FROM customers

ORDER BY companyname ASC;



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

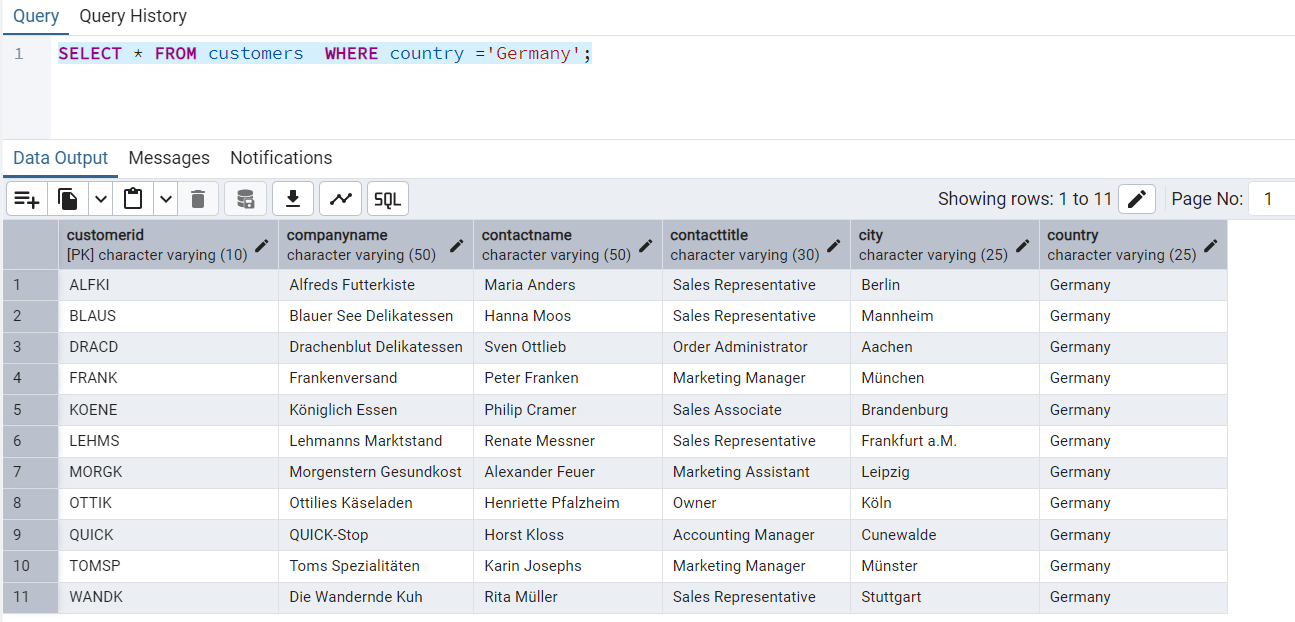
SELECT productname, unitprice as price\_in\_usd from products



/\*Filtering

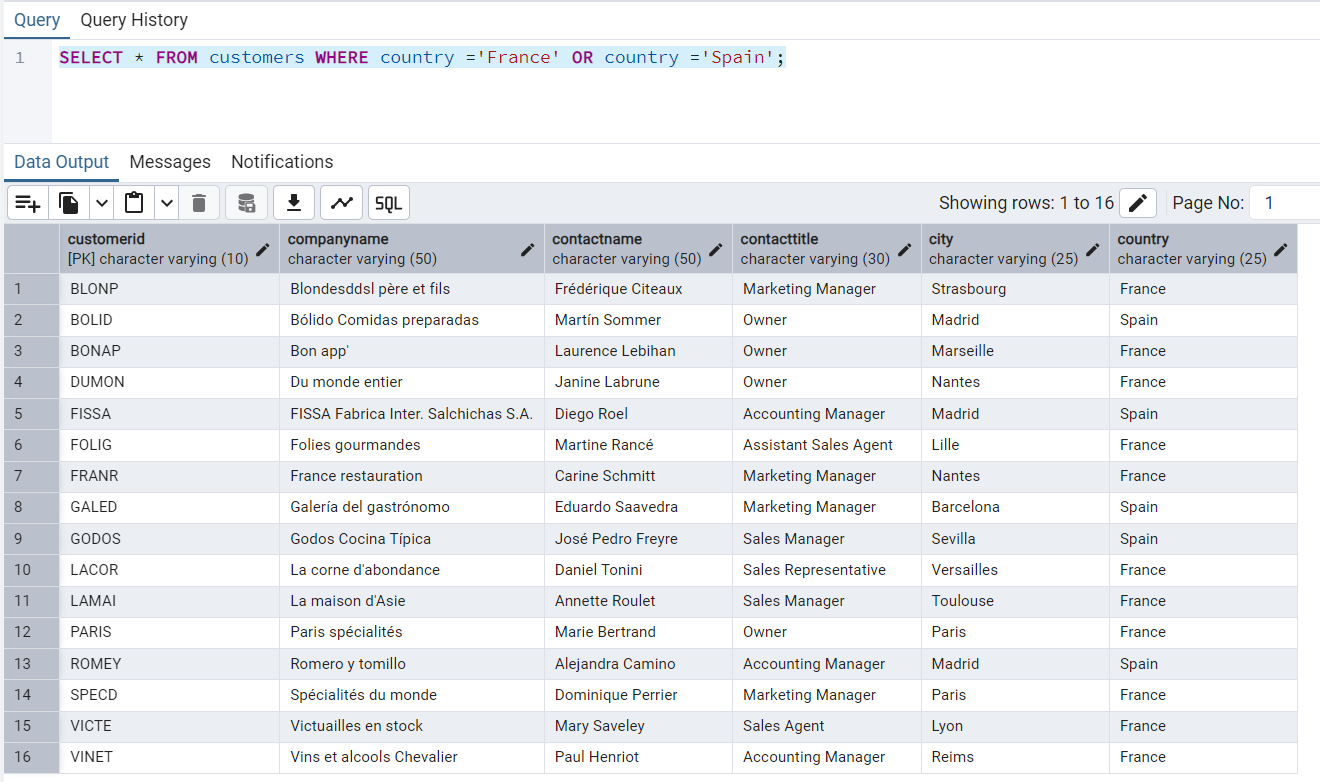
4.Get all customers from Germany.\*/

SELECT \* FROM customers WHERE country ='Germany';



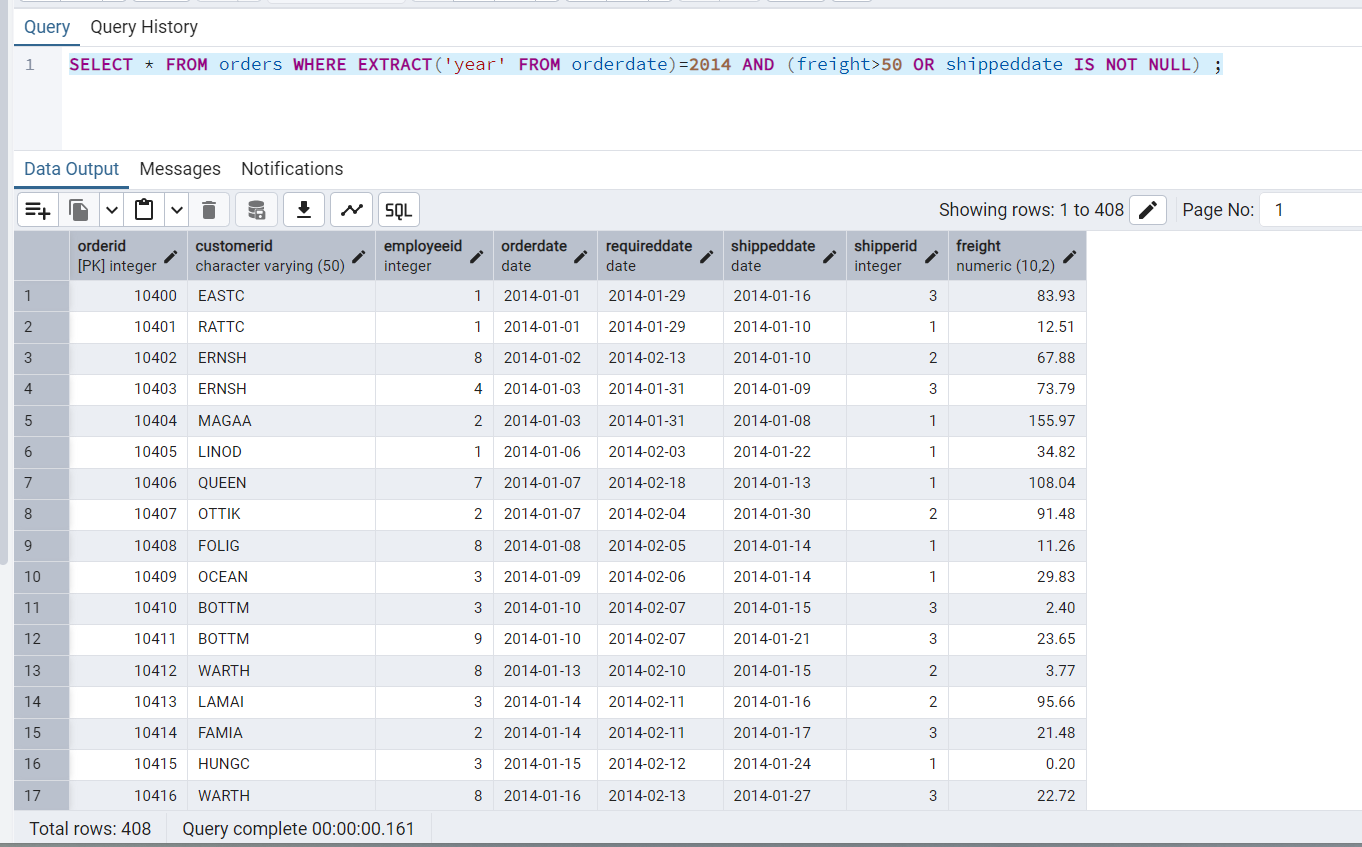
2.Find all customers from France or Spain

SELECT \* FROM customers WHERE country ='France' OR country ='Spain';



3.Retrieve all orders placed in 2014(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))\*/

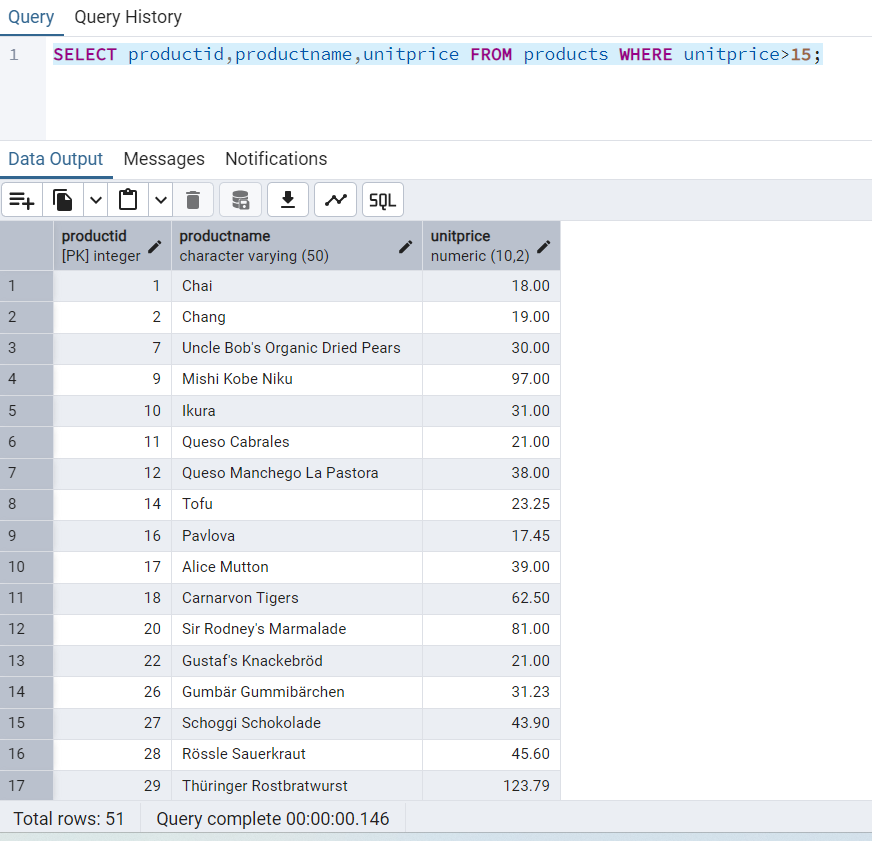
SELECT \* FROM orders WHERE EXTRACT('year' FROM orderdate)=2014 AND (freight>50 OR shippeddate IS NOT NULL) ;



/\*Filtering

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

SELECT productid,productname,unitprice FROM products WHERE unitprice>15;



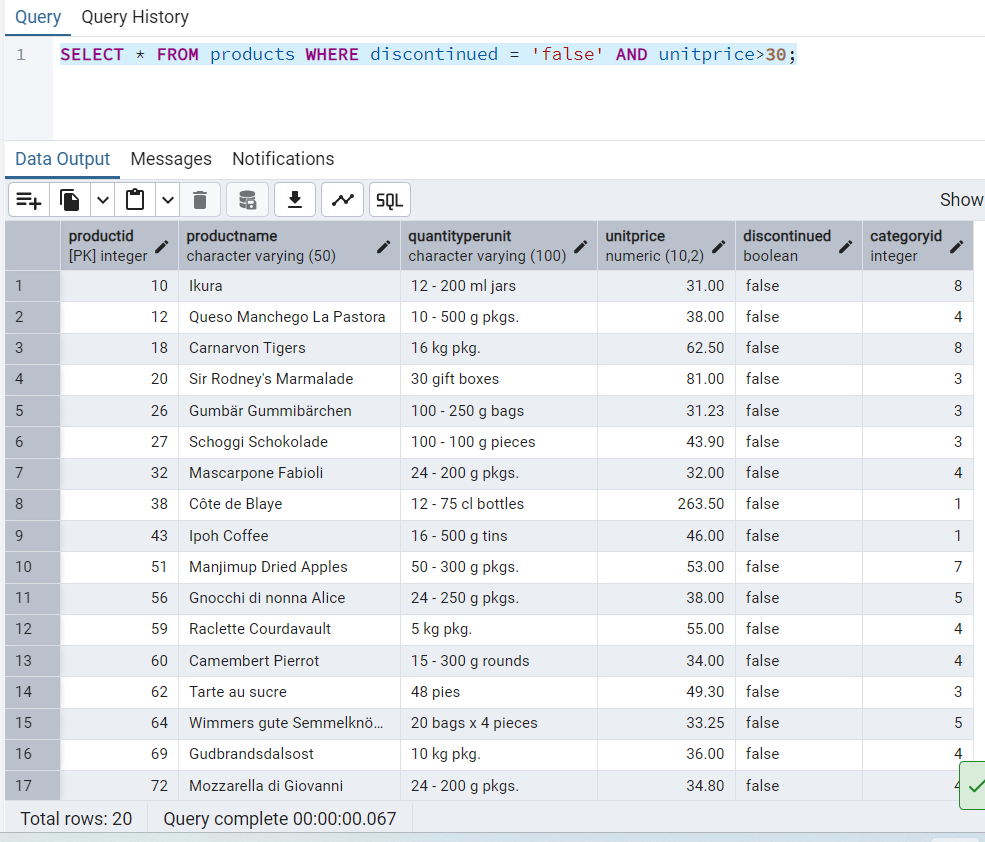
2.List all employees who are located in the USA and have the title "Sales Representative".

SELECT \* FROM employees WHERE country='USA' AND title='Sales Representative';



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

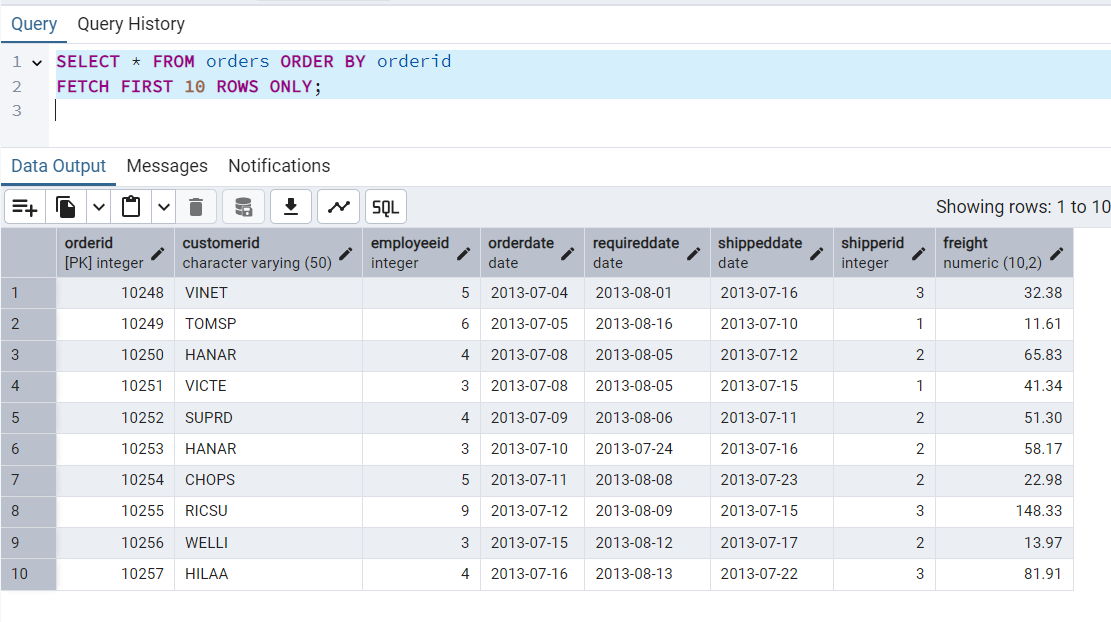
SELECT \* FROM products WHERE discontinued = 'false' AND unitprice>30;



/\*LIMIT/FETCH

1.Retrieve the first 10 orders from the orders table.\*/

SELECT \* FROM orders ORDER BY ordered FETCH FIRST 10 ROWS ONLY;

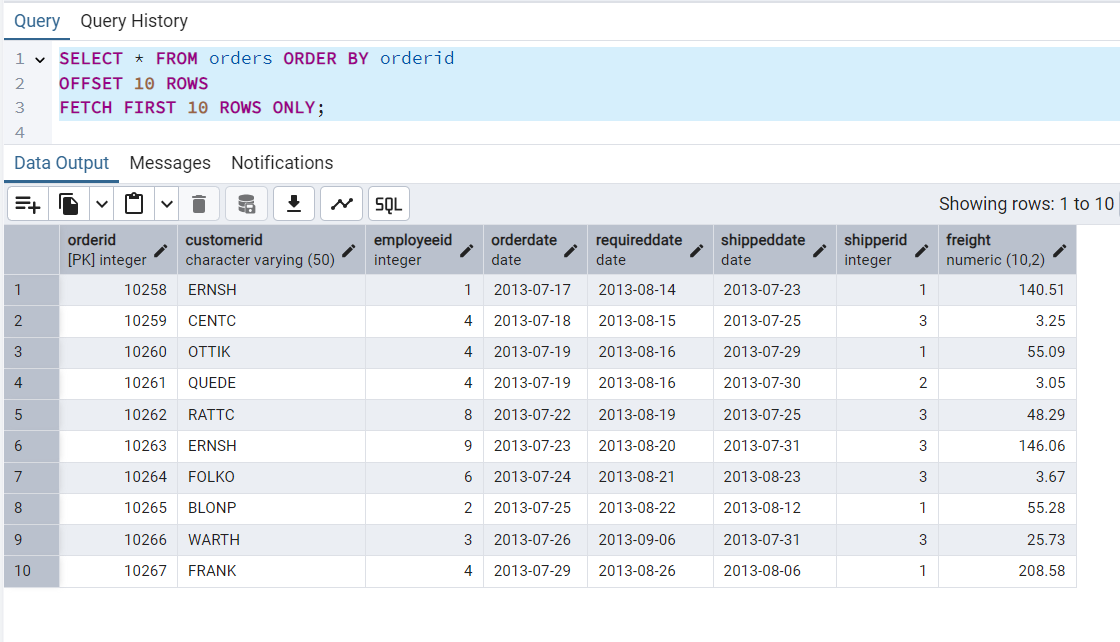


2.Retrieve orders starting from the 11th order, fetching 10 rows (i.e., fetch rows 11-20).

SELECT \* FROM orders ORDER BY orderid

OFFSET 10 ROWS

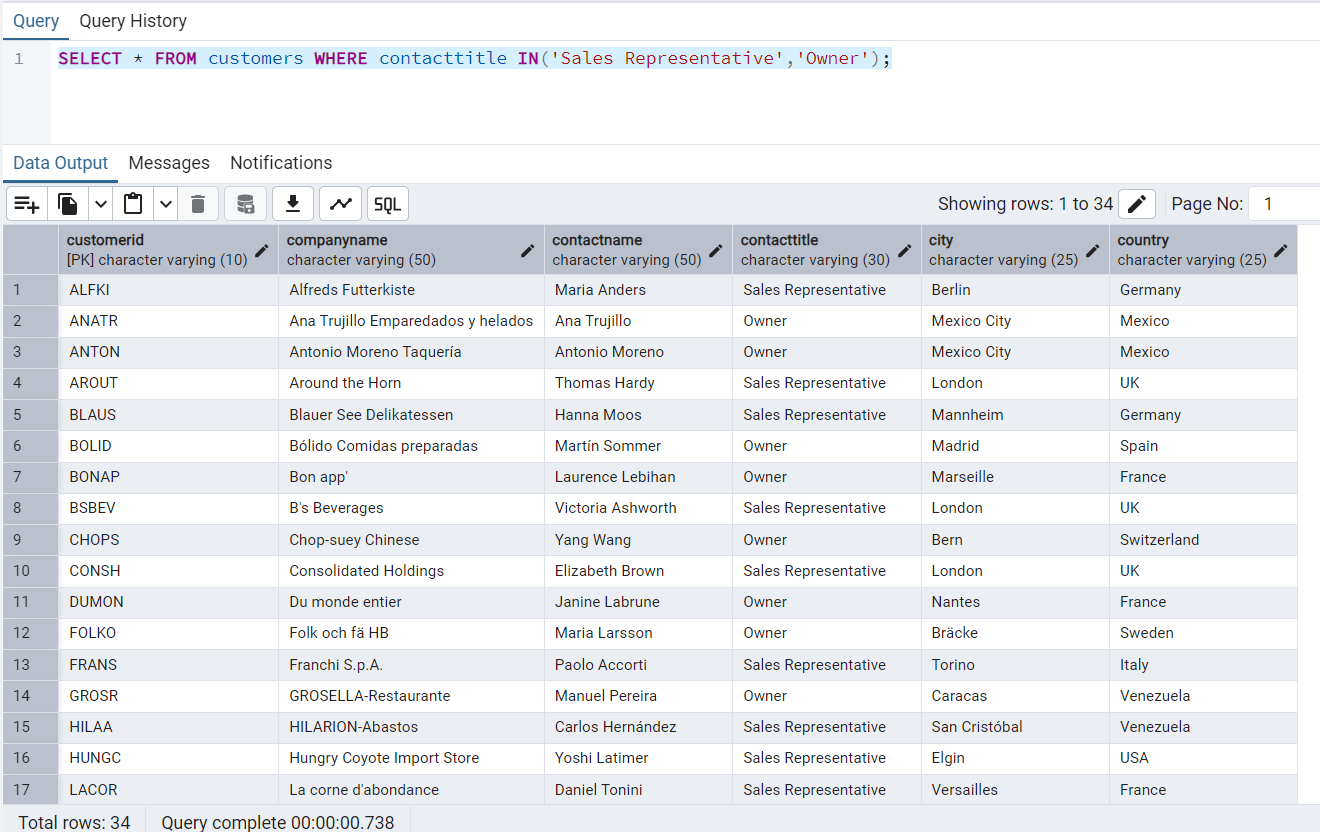
FETCH FIRST 10 ROWS ONLY;



/\*Filtering (IN, BETWEEN)

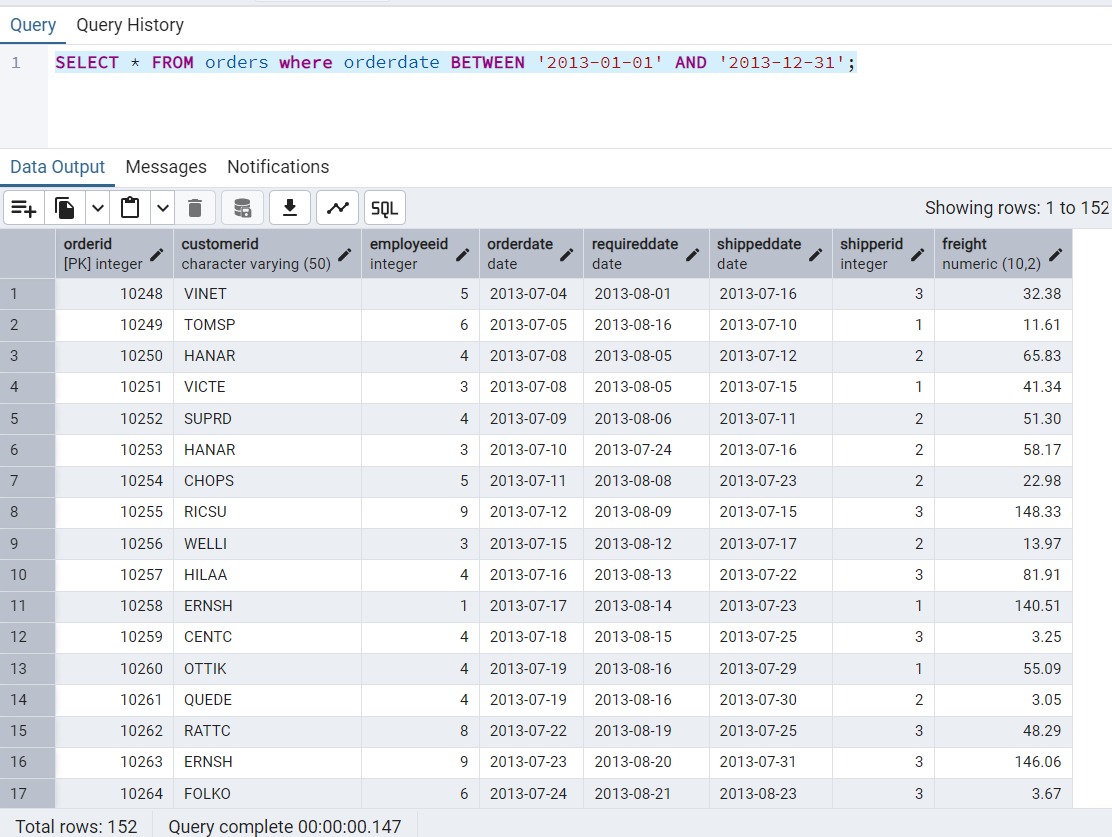
1.List all customers who are either Sales Representative, Owner\*/

SELECT \* FROM customers WHERE contacttitle IN('Sales Representative','Owner');



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

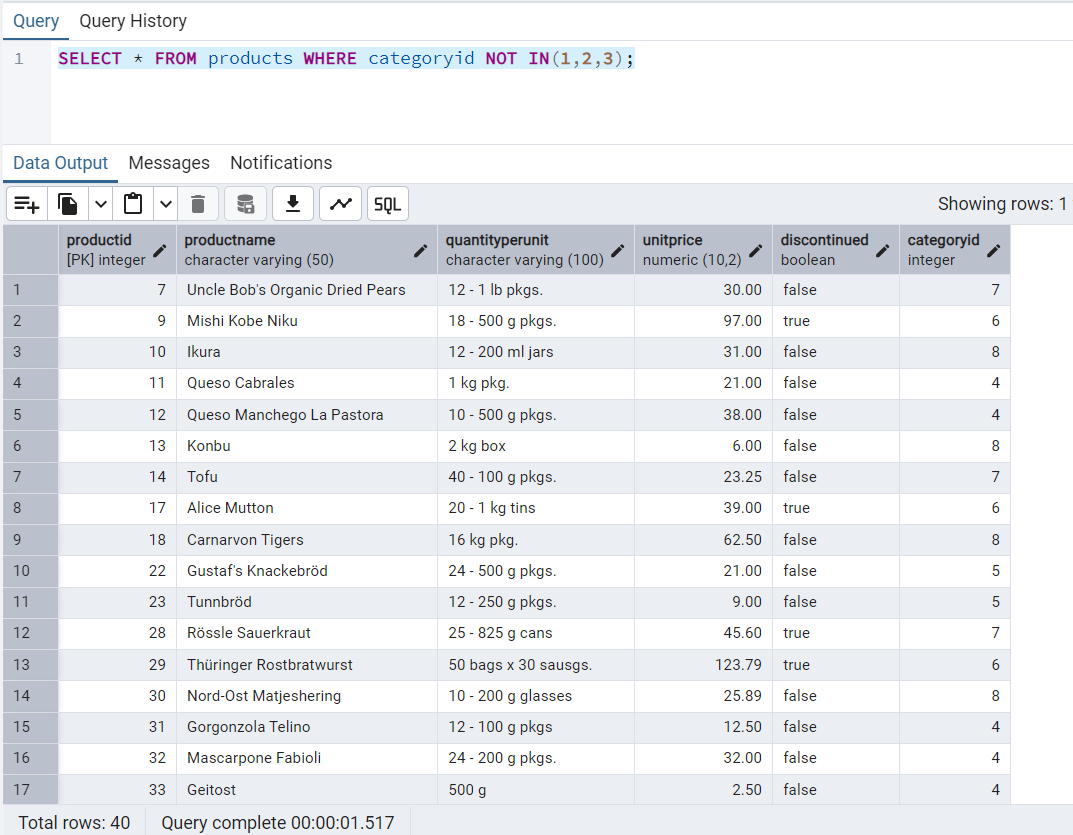
SELECT \* FROM orders where orderdate BETWEEN '2013-01-01' AND '2013-12-31';



/\*Filtering

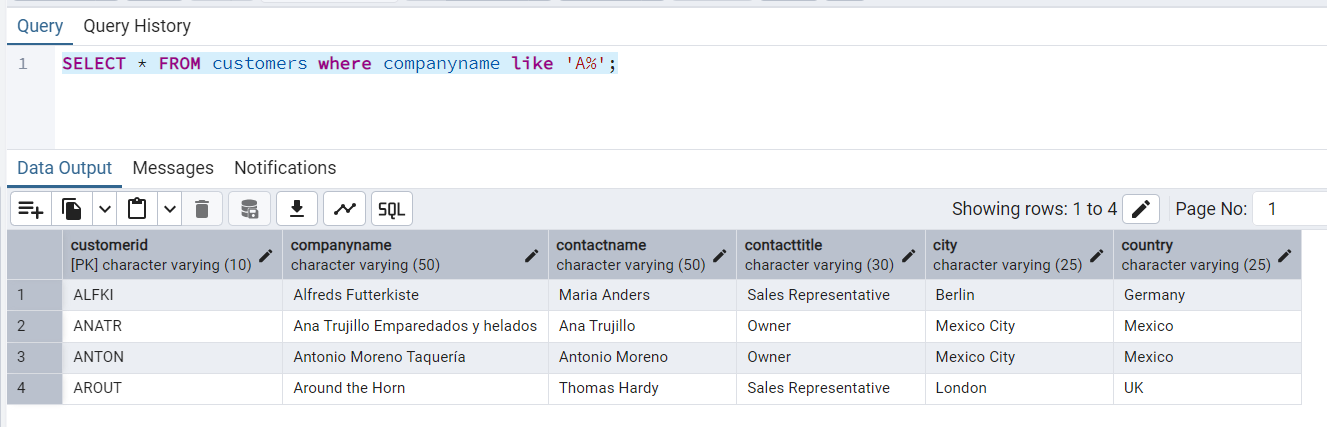
1.List all products whose category\_id is not 1, 2, or 3.\*/

SELECT \* FROM products WHERE categoryid NOT IN(1,2,3);



2.Find customers whose company name starts with "A".

SELECT \* FROM customers where companyname like 'A%';



/\*INSERT into orders table:

1.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

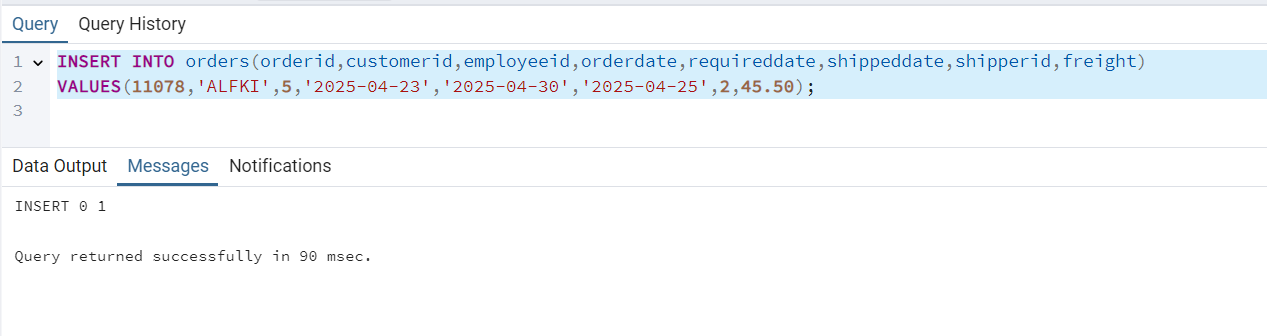
Shipped Date: 2025-04-25

shipperID:2

Freight: 45.50\*/

INSERT INTO orders(orderid,customerid,employeeid,orderdate,requireddate,shippeddate,shipperid,freight)

VALUES(11078,'ALFKI',5,'2025-04-23','2025-04-30','2025-04-25',2,45.50);



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

UPDATE products SET unitprice=unitprice\*1.10 WHERE categoryid=2;

