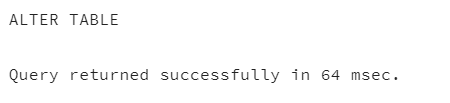
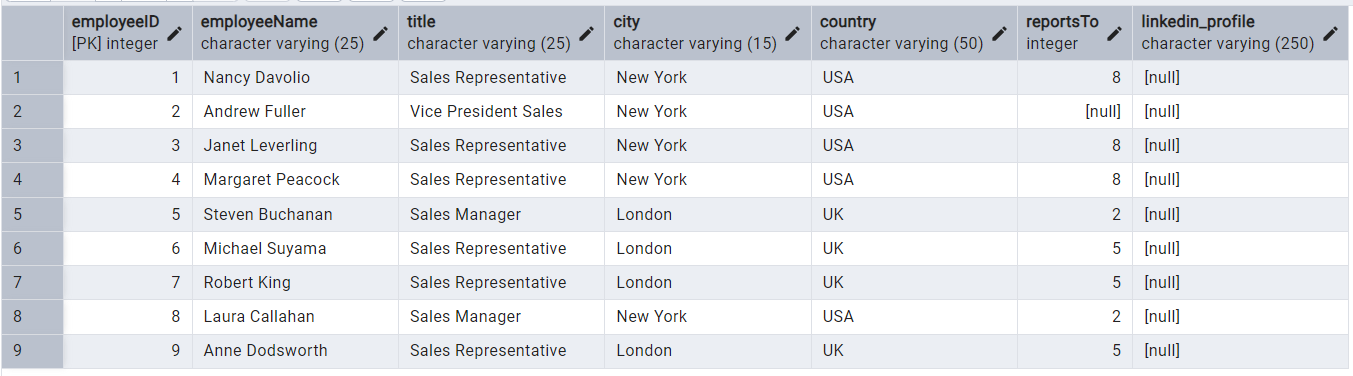
--\*\*\*\*\* 1.Altering Table employees\*\*\*\*\*--

--Adding new Column "linkedin\_profile"

ALTER TABLE employees

ADD COLUMN linkedin\_profile VARCHAR(250);

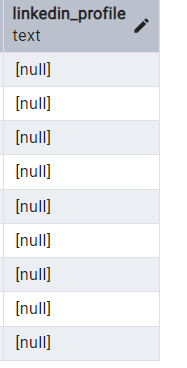
select\*from employees



--Change the column datatype to TEXT

ALTER TABLE employees

ALTER COLUMN linkedin\_profile TYPE TEXT;



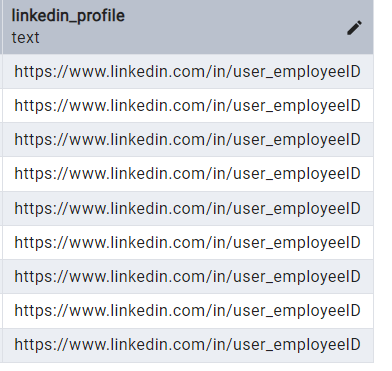
-- Add UNIQUE and NOT NULL constraints to 'linkedin\_profile'

ALTER TABLE employees

ADD CONSTRAINT unique\_linkedin\_profile UNIQUE (linkedin\_profile);

-- Ensure no NULLs before setting NOT NULL

--To attain this first we need to drop the column created and add the column

ALTER TABLE employees

DROP COLUMN linkedin\_profile;

ALTER TABLE employees

ADD COLUMN linkedin\_profile TEXT

GENERATED ALWAYS AS ('https://www.linkedin.com/in/user\_' || 'employeeID') STORED;

--Add NOT NULL constraint

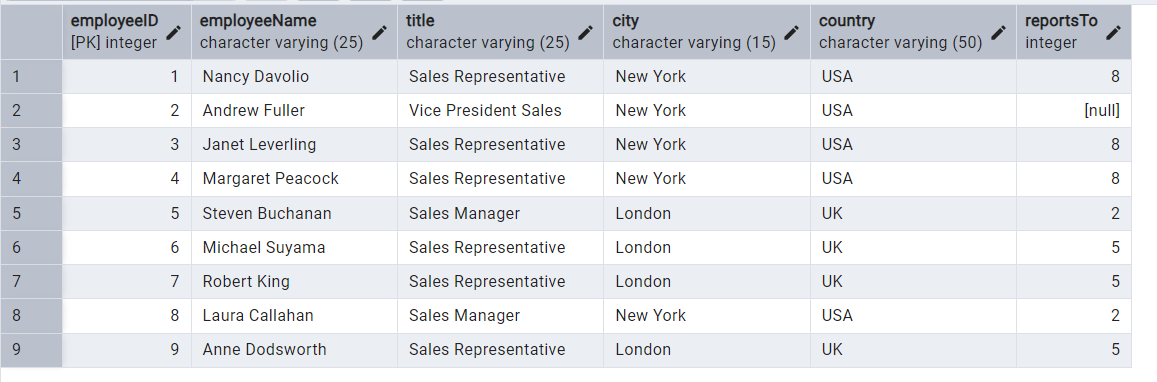
ALTER TABLE employees

ALTER COLUMN linkedin\_profile SET NOT NULL;

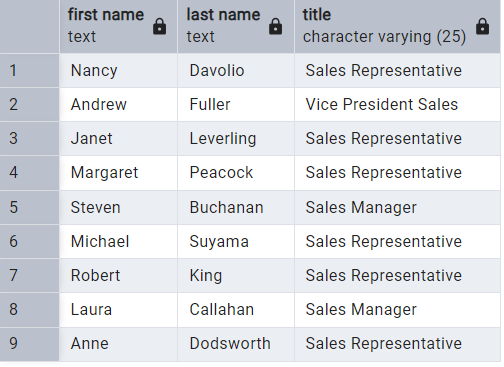
-- Drop the 'linkedin\_profile' column

ALTER TABLE employees

DROP COLUMN linkedin\_profile;

=========================================================================

--\*\*\*\*2.Querying(Select)\*\*\*\*--

-- 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;

--Find all unique unit prices of products--

select\*from products

SELECT DISTINCT "unitPrice"

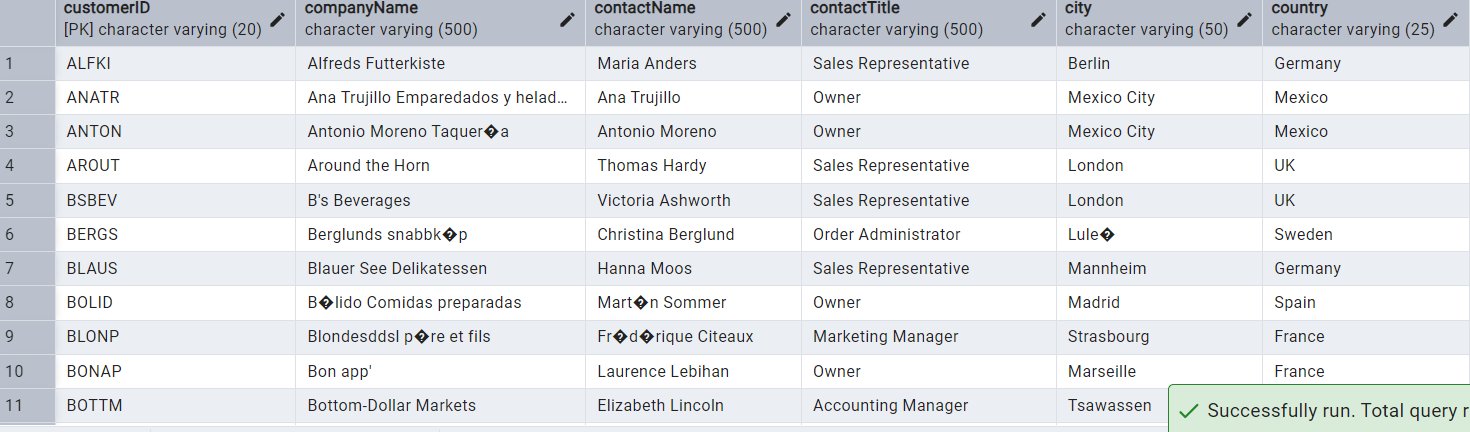
FROM products;

-- List all customers sorted by company name in ascending order--

SELECT \*

FROM customers

ORDER BY "companyName" ASC;



-- 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;



--\*\*\*\*3.Filtering\*\*\*\*--

--Get all customers from Germany--

select \*

FROM customers

WHERE country ='Germany'



--Find all customers from France or Spain--

SELECT \*

FROM customers

WHERE country IN ('France', 'Spain');



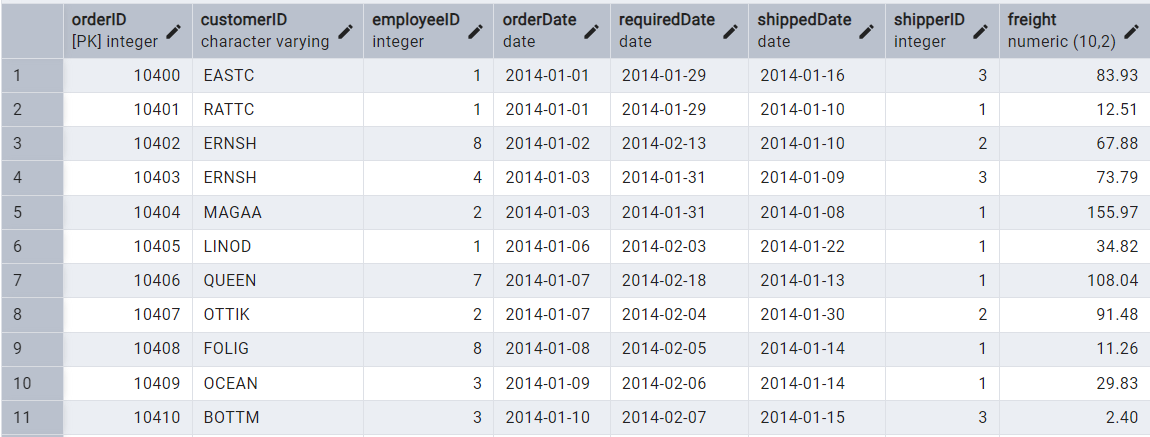
--Retrieve all orders placed in 2014, and either have freight >50,or a non-Null shipped date--

SELECT \*

FROM orders

WHERE EXTRACT(YEAR FROM "orderDate") = 2014

AND (freight > 50 OR "shippedDate" IS NOT NULL);

=========================================================================

--\*\*\*\*4.Filtering\*\*\*\*--

--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;



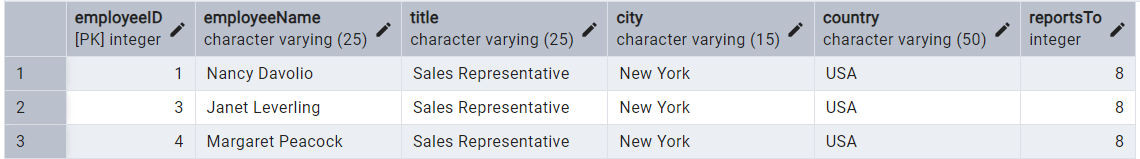
--List all employees who are located in the USA and have the title "Sales Representative"--

SELECT \*

FROM employees

WHERE country = 'USA'

AND title = 'Sales Representative';



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

SELECT \*

FROM products

WHERE discontinued = 0

AND "unitPrice" > 30;

=========================================================================

--\*\*\*\*5.Limit/Fetch\*\*\*\*--

-- Retrieve the first 10 orders from the orders table--

SELECT \*

FROM orders

ORDER BY "orderID"

LIMIT 10;



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

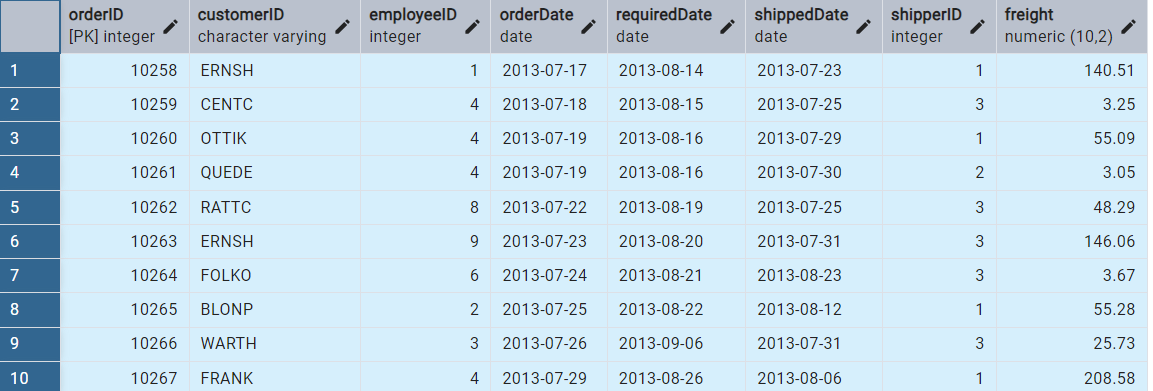
SELECT \*

FROM orders

ORDER BY "orderID"

OFFSET 10

LIMIT 10;



--\*\*\*\*6.Filtering (IN, BETWEEN)\*\*\*\*--

--List all customers who are either Sales Representative, Owner--

SELECT \*

FROM customers

WHERE "contactTitle" IN ('Sales Representative', 'Owner');

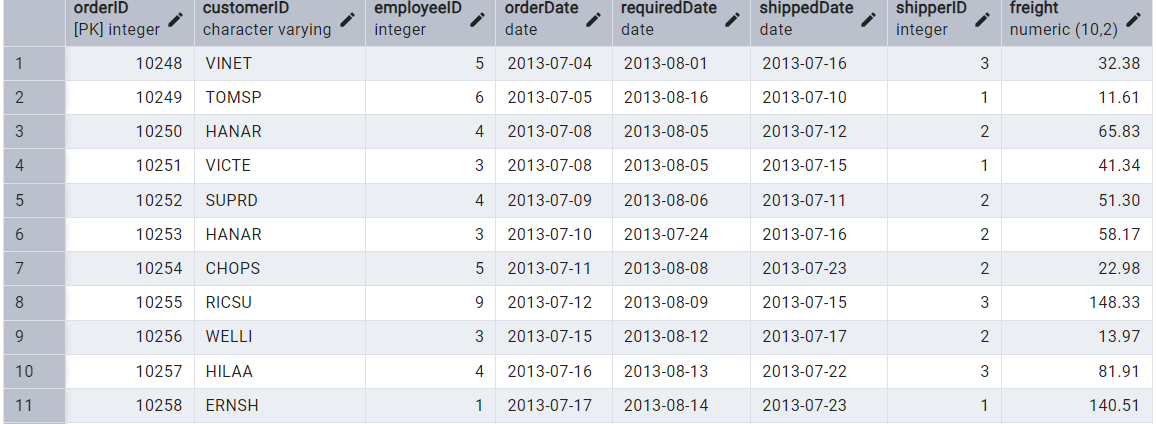


--Retrieve orders placed between January 1, 2013, and December 31, 2013--

SELECT \*

FROM orders

WHERE "orderDate" BETWEEN '2013-01-01' AND '2013-12-31';

=========================================================================

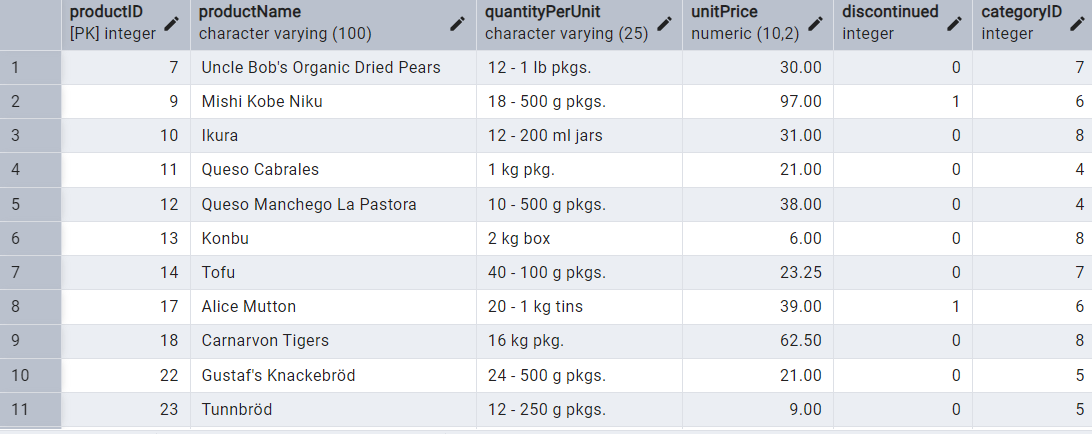
--\*\*\*\*7.Filtering\*\*\*\*--

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

SELECT \*

FROM products

WHERE "categoryID" NOT IN (1, 2, 3);

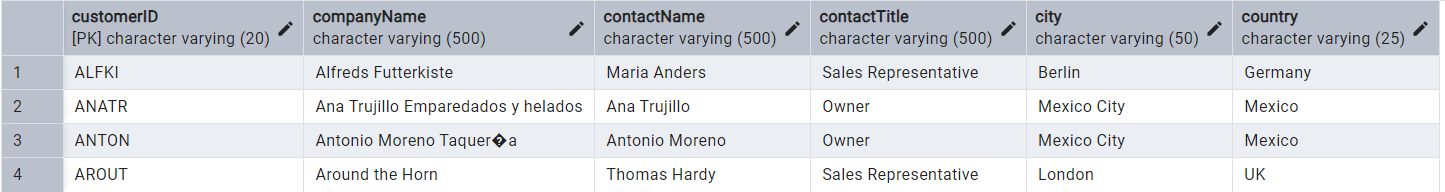


--Find customers whose company name starts with "A"--

SELECT \*

FROM customers

WHERE "companyName" LIKE 'A%';

=========================================================================

--\*\*\*\*8.INSERT into orders table\*\*\*\*--

--Adding new order in orders table--

INSERT INTO orders (

"orderID", "customerID", "employeeID", "orderDate",

"requiredDate", "shippedDate", "shipperID", "freight"

)

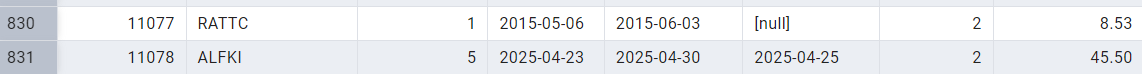
VALUES (

11078, 'ALFKI', 5, '2025-04-23',

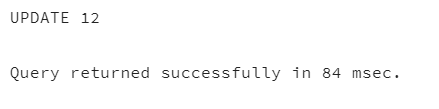
'2025-04-30', '2025-04-25', 2, 45.50

);

select \* from orders

  
=========================================================================

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

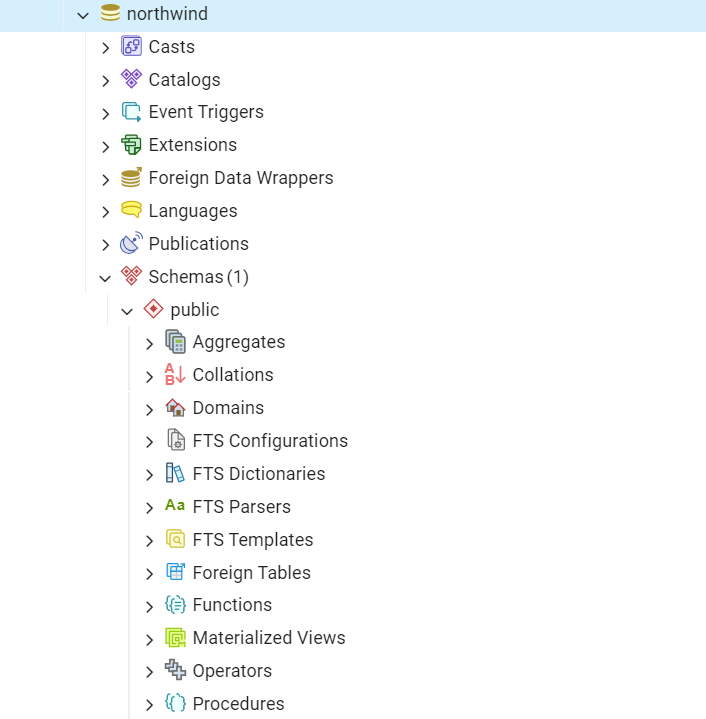
UPDATE products

SET "unitPrice" = "unitPrice" \* 1.10

WHERE "categoryID" = 2;



=========================================================================

--\*\*\*\*10.Imported northwind database from the given GitHub url\*\*\*\*--