**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.
* Add unique, not null constraint to linkedin\_profile
* Drop column linkedin\_profile

**SELECT \* FROM employees**

**ALTER TABLE employees**

**ADD linkedin\_profile varchar;**

**ALTER TABLE employees**

**ALTER COLUMN linkedin\_profile TYPE text;**

**ALTER TABLE employees**

**ADD UNIQUE (linkedin\_profile);**

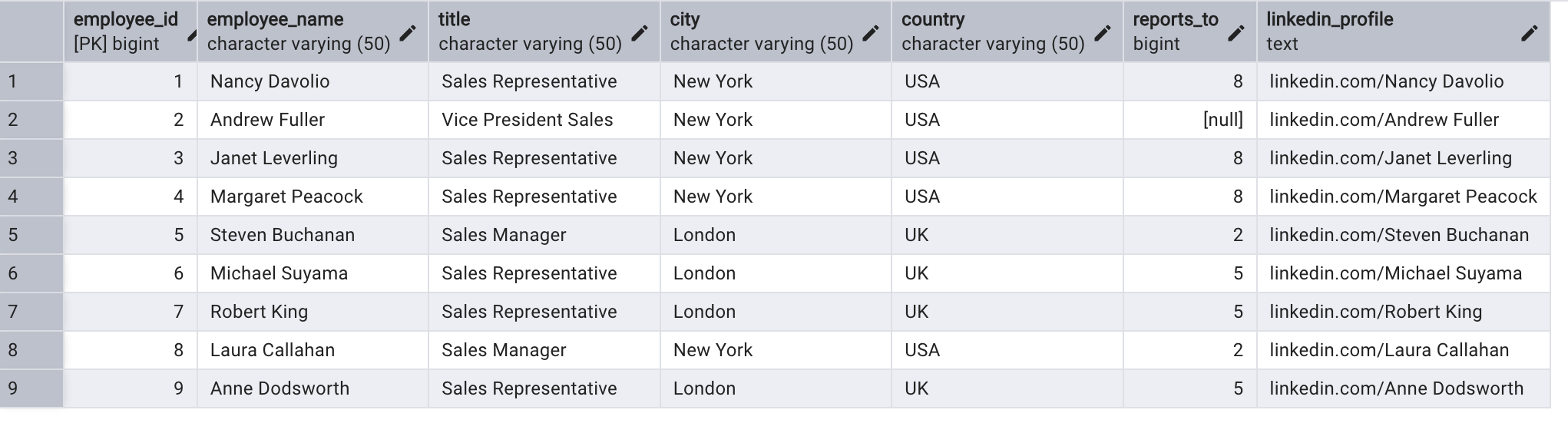
**UPDATE employees**

**SET linkedin\_profile = 'linkedin.com/'||employee\_name**

**WHERE linkedin\_profile IS NULL;**

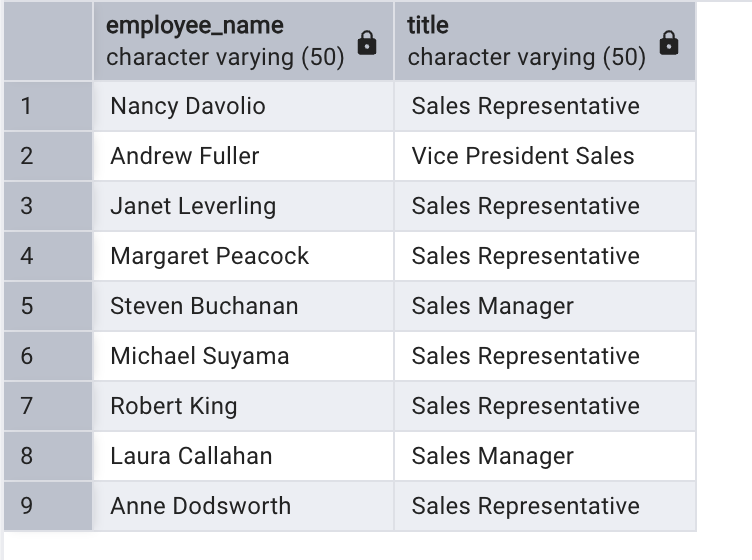
**ALTER TABLE employees**

**ALTER COLUMN linkedin\_profile SET NOT NULL**

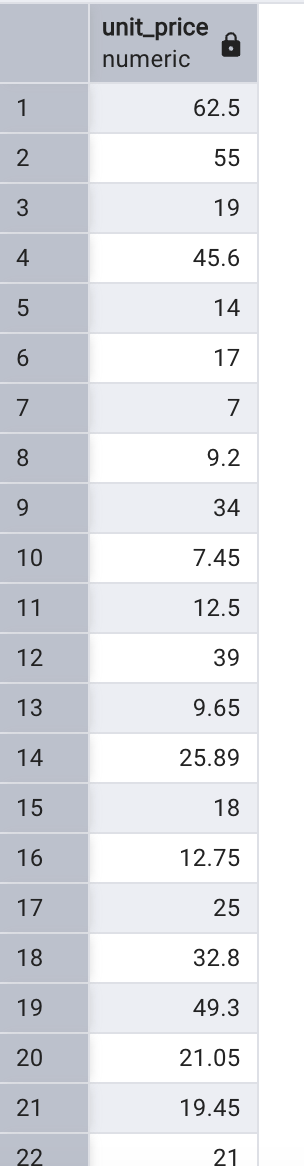
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2)      Querying (Select)

* Retrieve the employee name and title of all employees

**SELECT employee\_name,title FROM employees**

* + - Findall unique unit prices of products

**SELECT DISTINCT unit\_price FROM products**

* List all customers sorted by company name in ascending order

**SELECT customer\_id,company\_name FROM customers**

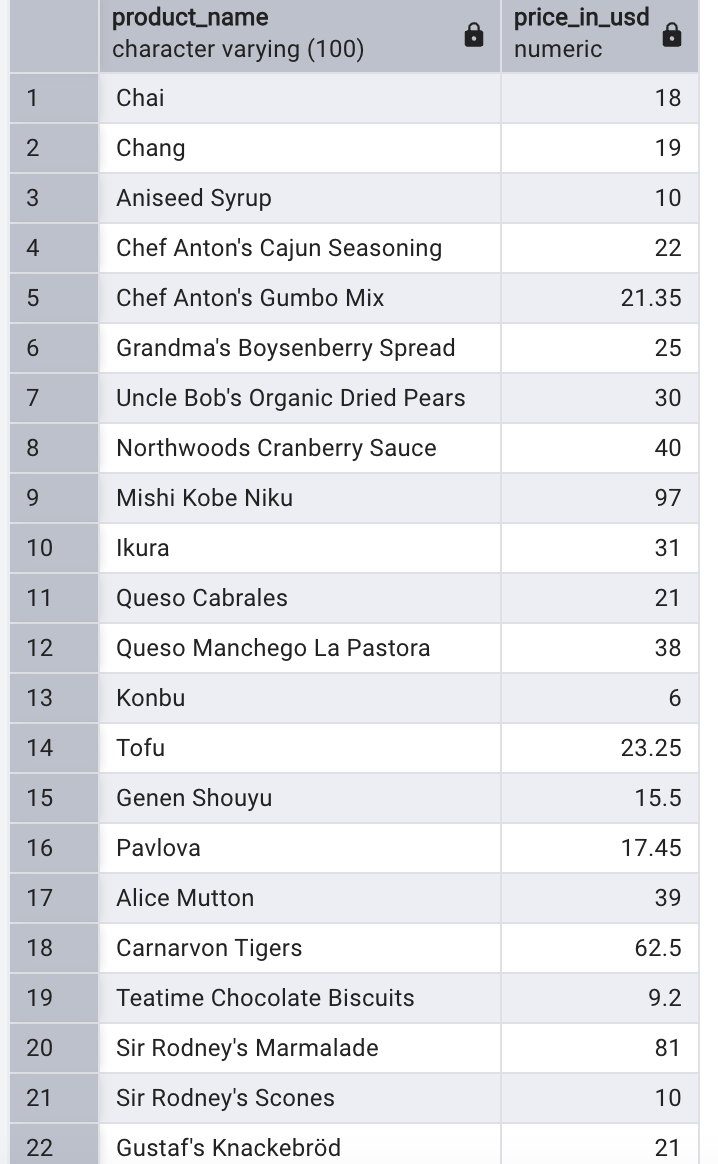
**GROUP BY customer\_id,company\_name**

**ORDER BY company\_name ASC**

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

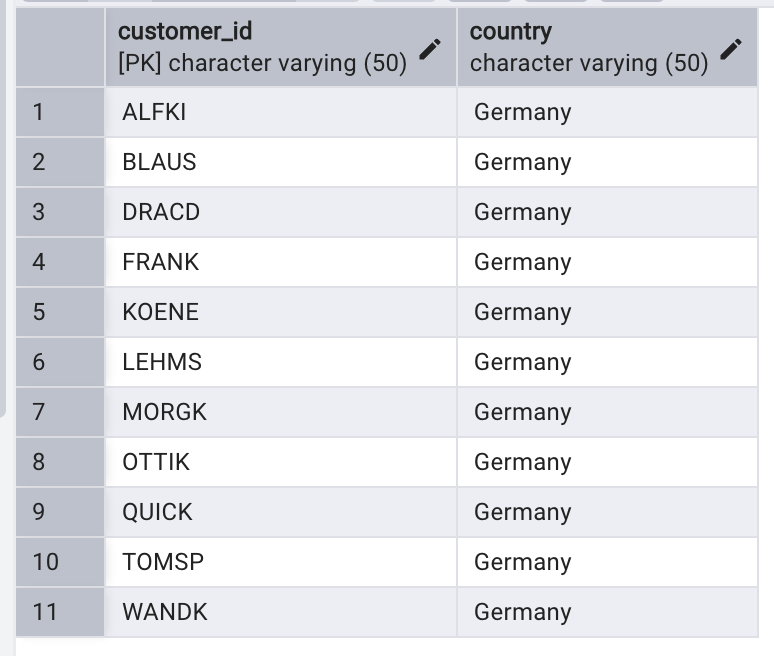
**SELECT product\_name,unit\_price AS price\_in\_usd**

**FROM products**

3)      Filtering

* Get all customers from Germany.

**SELECT customer\_id,country FROM customers**

**WHERE country =‘Germany’**

* Find all customers from France or Spain

**SELECT customer\_id,country FROM customers**

**WHERE country ='France' OR country =‘Spain'**

* 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 (select EXTRACT(YEAR FROM(order\_date)) AS order\_year,order\_id,customer\_id,freight FROM orders**

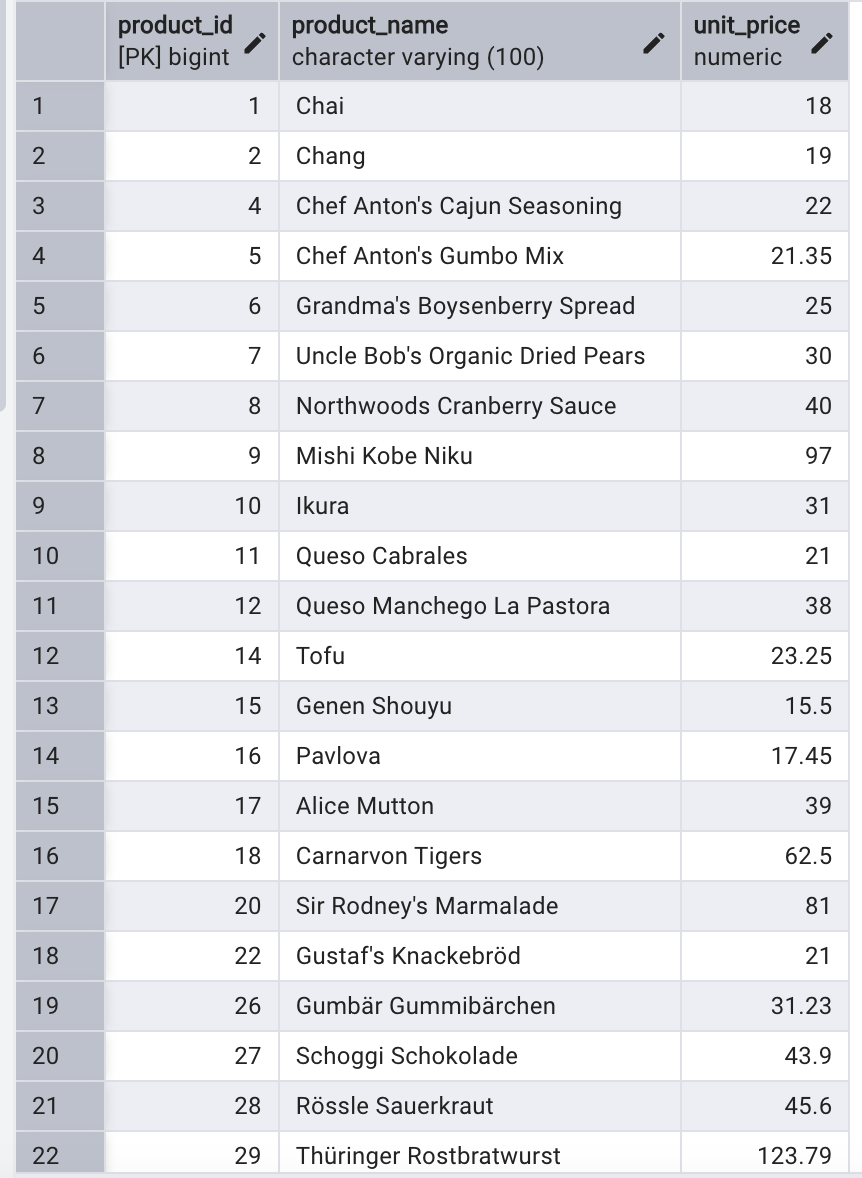
**WHERE freight>50 OR shipped\_date IS NOT NULL) WHERE order\_year=2014**

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4)      Filtering

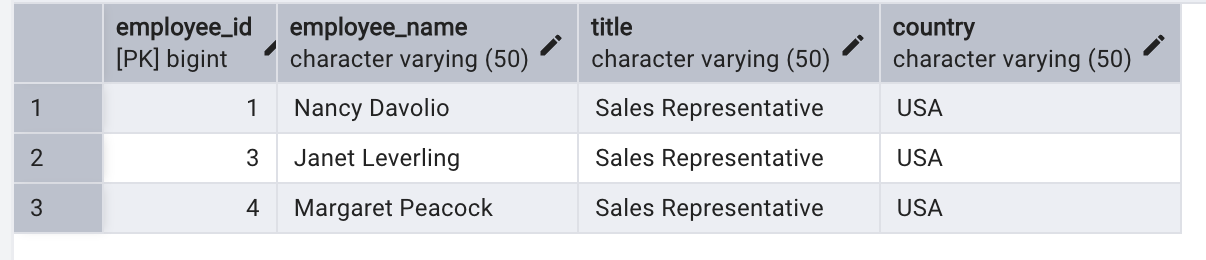
* Retrieve the product\_id, product\_name, and unit\_price of products where the unit\_price is greater than 15.

**SELECT Product\_id,product\_name,unit\_price FROM products**

**WHERE unit\_price>15**

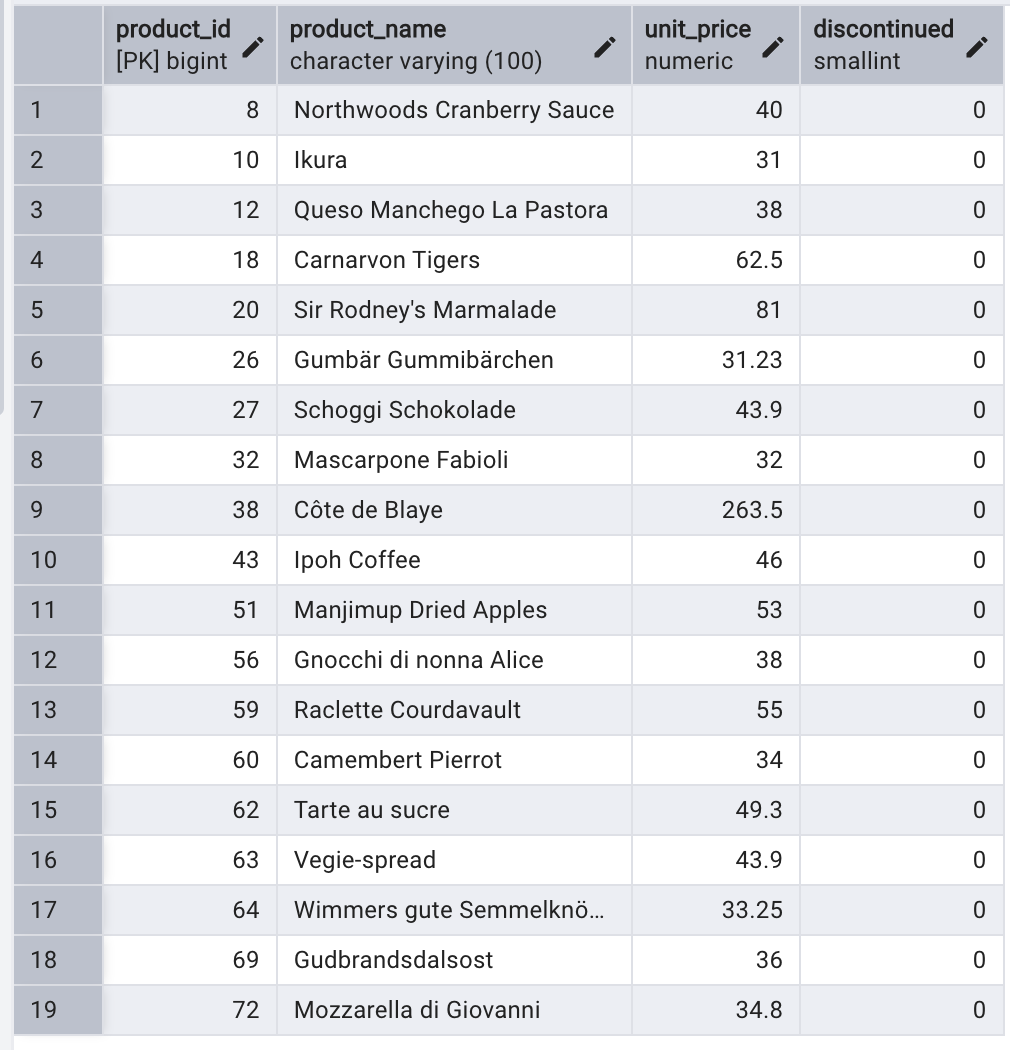
* List all employees who are located in the USA and have the title "Sales Representative”.

**SELECT employee\_id,employee\_name,title,country FROM employees**

**WHERE title ='Sales Representative' AND country = ‘USA'**

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

**SELECT product\_id,product\_name,unit\_price,discontinued FROM products**

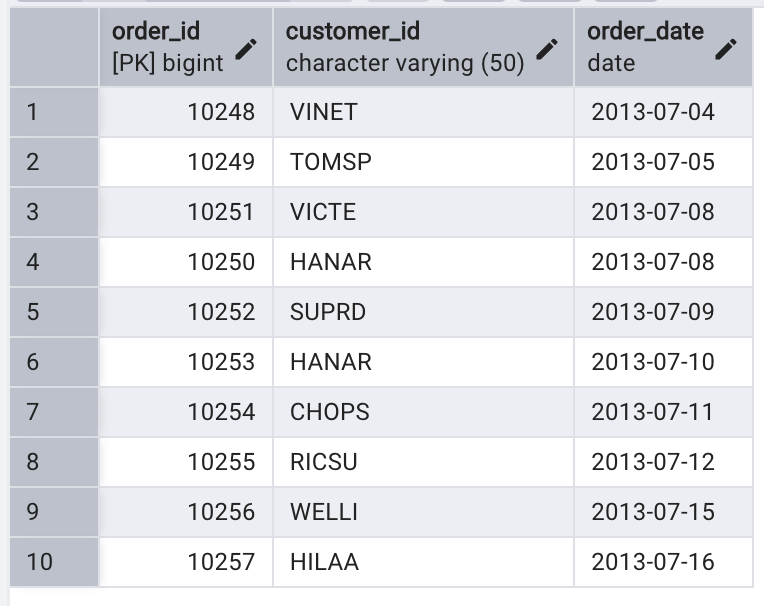
**WHERE unit\_price>30 AND discontinued=0**

5)      LIMIT/FETCH

* Retrieve the first 10 orders from the orders table.

**SELECT order\_id,customer\_id,order\_date FROM orders**

**GROUP BY order\_id**

**ORDER BY order\_date ASC LIMIT 10**

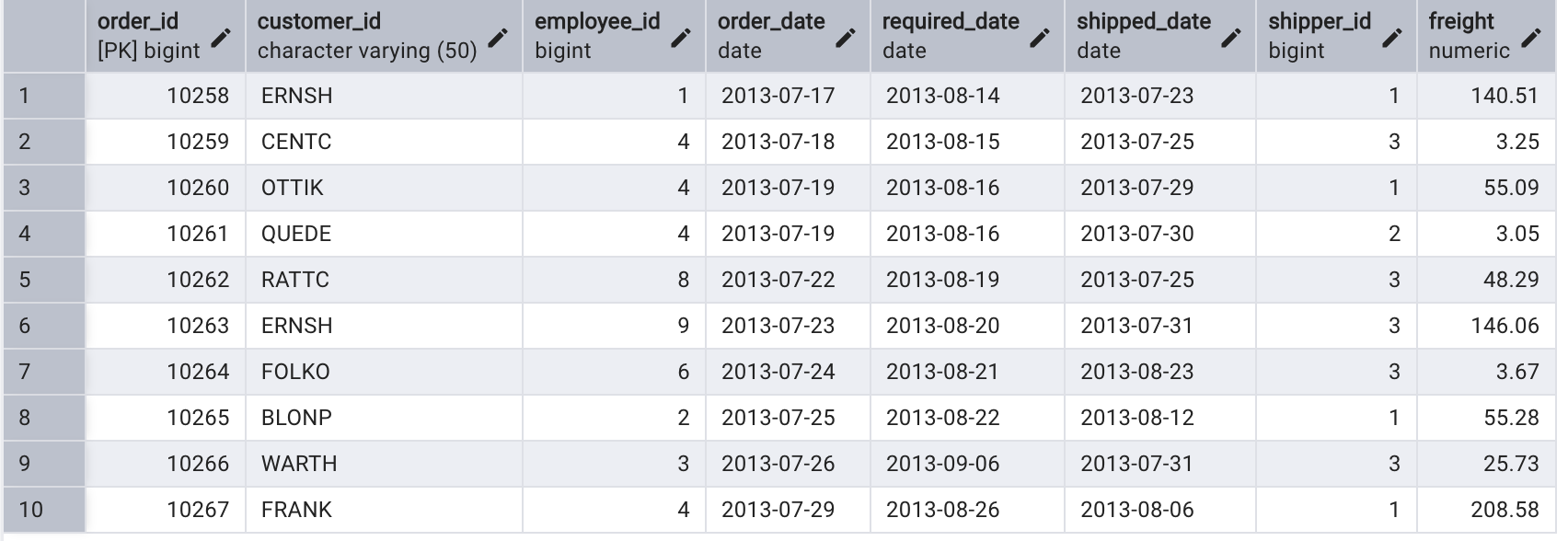
* Retrieve orders starting from the 11th order, fetching 10 rows (i.e., fetch rows 11-20).

**SELECT \* FROM orders**

**ORDER BY order\_id ASC**

**LIMIT 10**

**OFFSET 10;**

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6)      Filtering (IN, BETWEEN)

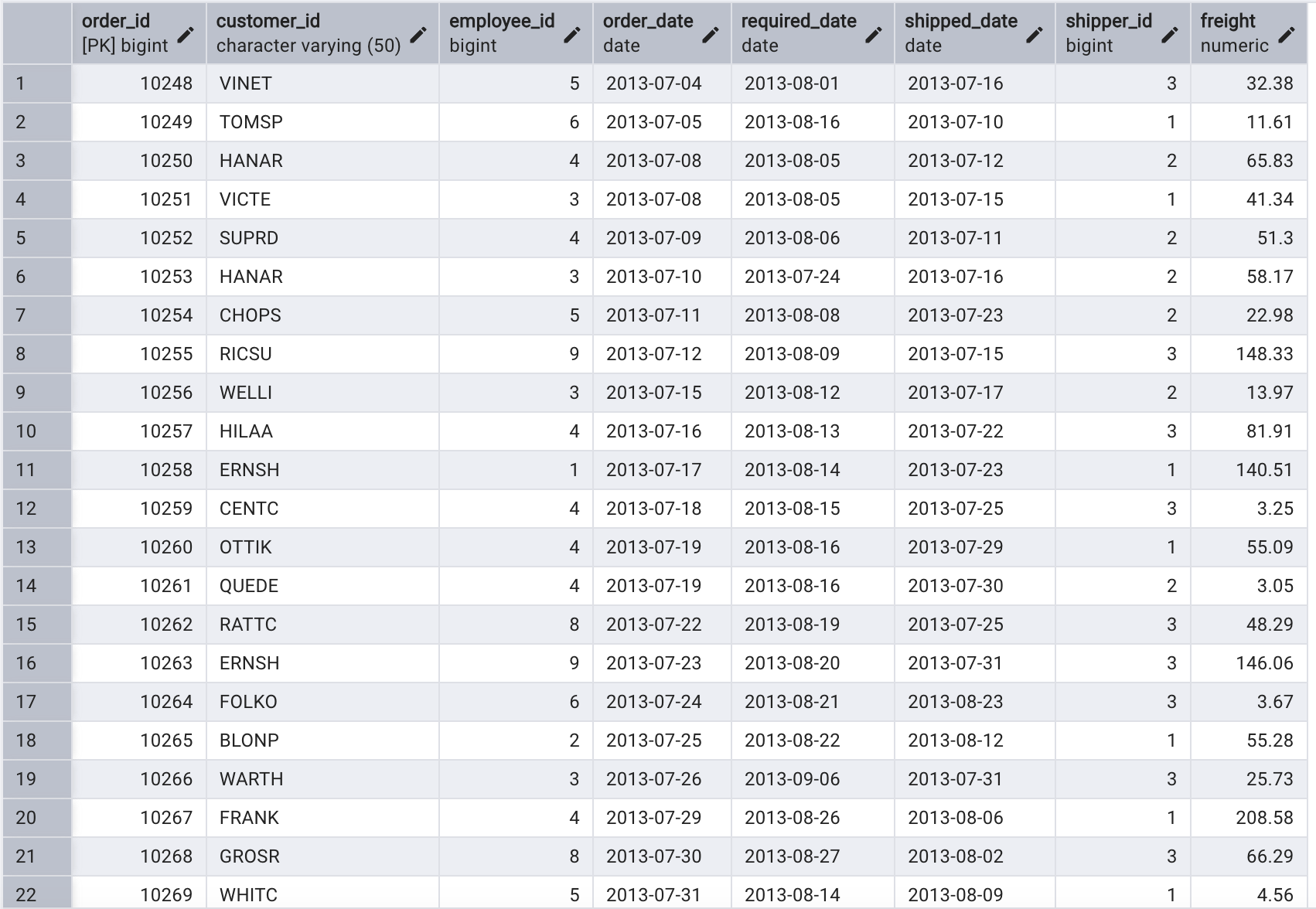
* List all customers who are either Sales Representative, Owner

**SELECT \* FROM customers**

**WHERE contact\_title = 'Sales Representative' OR contact\_title ='Owner';**

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

**SELECT \* FROM orders**

**WHERE order\_date BETWEEN '2013-01-01' AND '2013-12-31';**

7)      Filtering

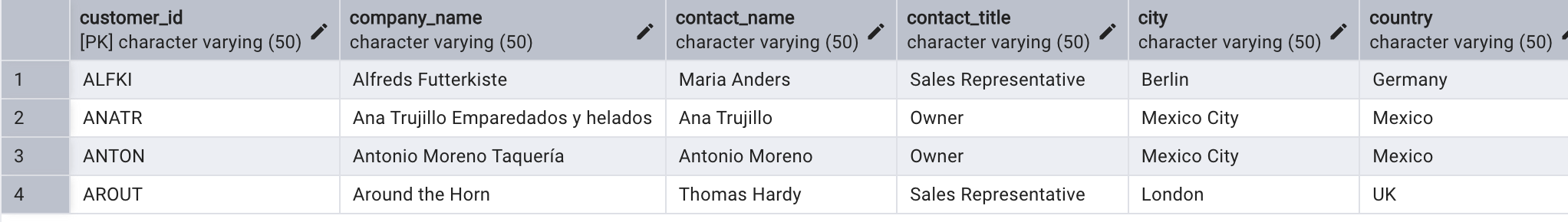
* List all products whose category\_id is not 1, 2, or 3.

**SELECT \* FROM products**

**WHERE category\_id NOT IN (1,2,3);**

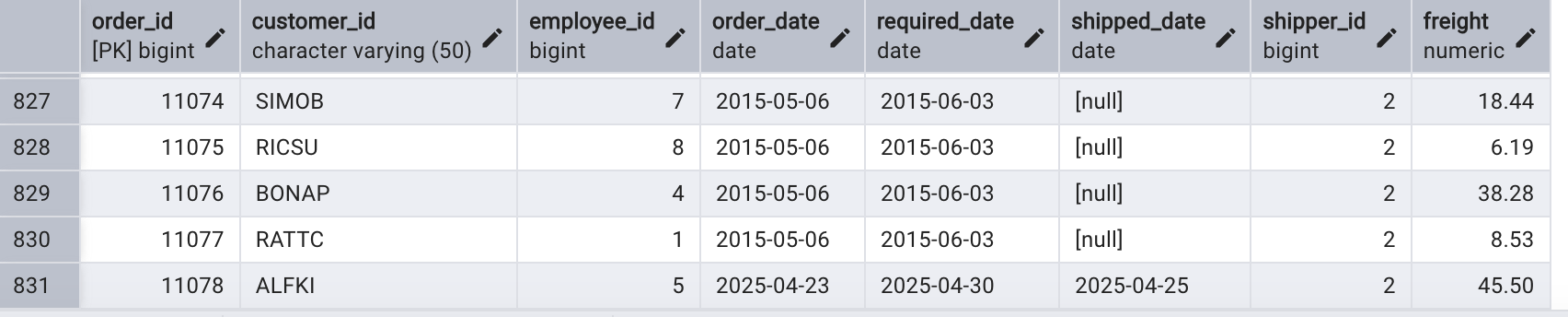
* Find customers whose company name starts with "A".

**SELECT \* FROM customers**

**WHERE company\_name LIKE’A%';**

8)       INSERT into orders table:

**INSERT INTO orders (order\_id,customer\_id,employee\_id,order\_date,required\_date,shipped\_date,shipper\_id,freight)**

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

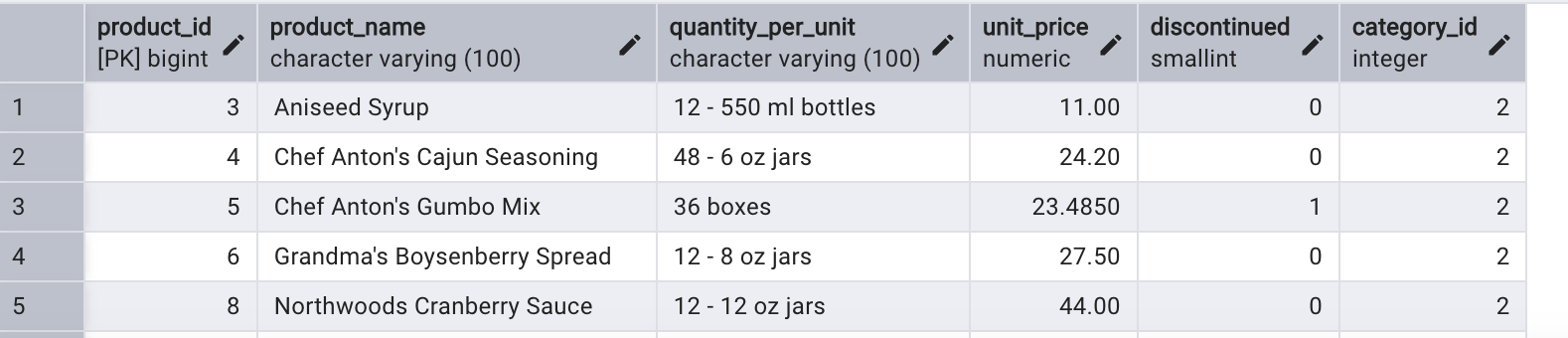
9)      Increase(Update)  the unit price of all products in category\_id =2 by 10%.

**UPDATE products**

**SET unit\_price = unit\_price\*1.10**

**WHERE category\_id = 2;**

**SELECT \* FROM products**

**WHERE category\_id = 2;**

10) Sample Northwind database-Download.