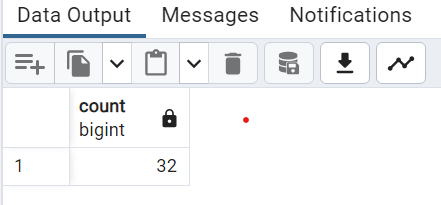
**SQL RESTAURANT ORDERS ANALYSIS**

**1--View the menu\_items table and write a query to find the number of items on the menu—**

Select COUNT(item\_name) From menu\_items;



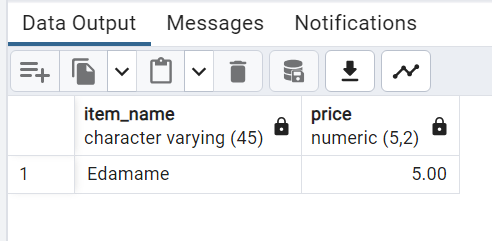
**--2 What are the least and most expensive items on the menu?\*/\***

Select item\_name, price

From menu\_items

Order By price ASC

LIMIT 1;

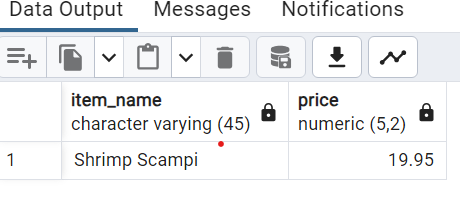
****

Select item\_name, price

From menu\_items

Order By price DESC

LIMIT 1;



**3--How many Italian dishes are on the menu? What are the least and most expensive Italian dishes on the menu?\*/**

SELECT COUNT(\*) AS Italian\_dishes

FROM menu\_items

WHERE category ='Italian';

--Least dishes--

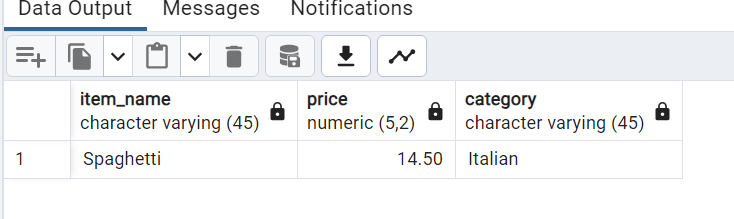
SELECT item\_name, price, category

FROM menu\_items

WHERE category = 'Italian'

ORDER BY price ASC

LIMIT 1;



---Expensive dishes--

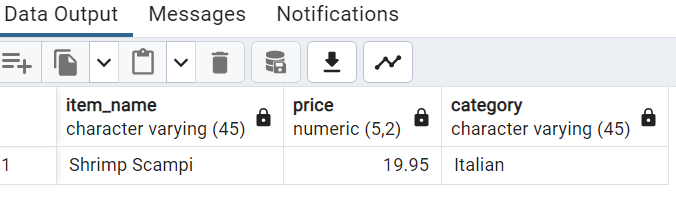
SELECT item\_name, price, category

FROM menu\_items

WHERE category = 'Italian'

ORDER BY price DESC

LIMIT 1;

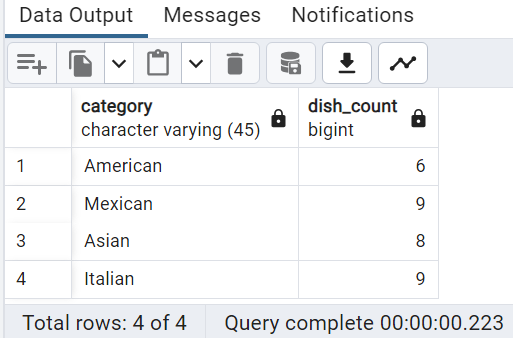


**4/\*How many dishes are in each category? What is the average dish price within each category?\*/**

SELECT category,count(\*)AS dish\_count

FROM menu\_items

GROUP BY category;

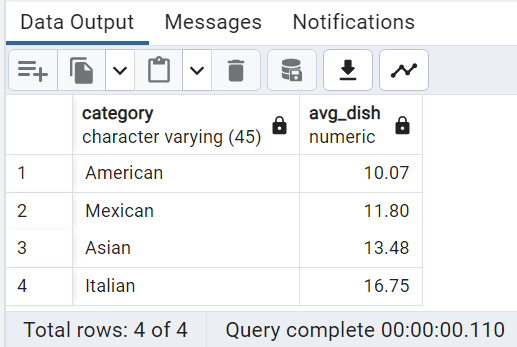


**--Average dish--**

SELECT category,ROUND(AVG(price), 2) AS Avg\_Dish

FROM menu\_items

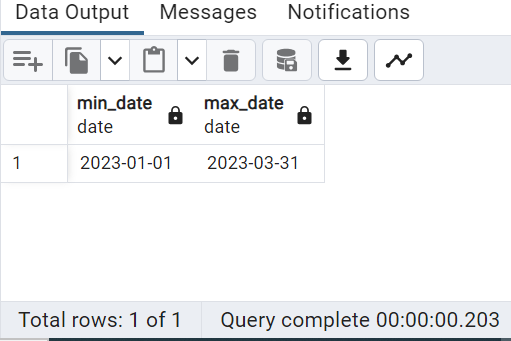
GROUP BY category;



**5/\*View the order\_details table. What is the date range of the table?\*/**

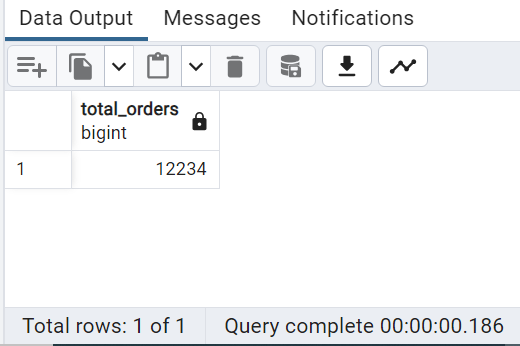
SELECT Min(order\_date) min\_date, Max(order\_date)AS max\_date

FROM order\_details;



**6/\*How many orders were made within this date range?\*/**

SELECT Distinct count(order\_id) AS total\_orders FROM order\_details



**7/\*How many items were ordered within this date range?\*/**

SELECT menu\_item\_id, COUNT(item\_id)

FROM menu\_items

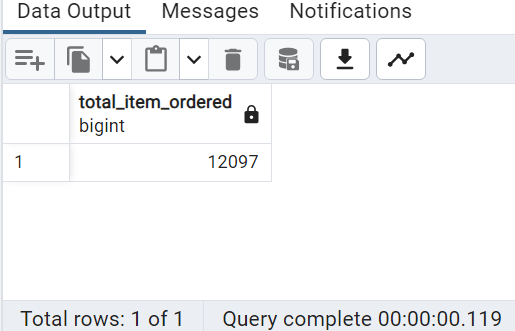
JOIN order\_details

ON menu\_item\_id = item\_id

Group By menu\_item\_id;

SELECT COUNT (item\_id) AS TOtal\_item\_ordered

FROM order\_details;



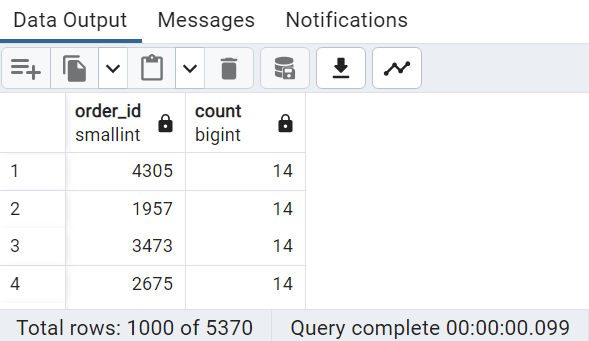
**8--Which orders had the most number of items?--**

Select order\_id, COUNT(item\_id)

from order\_details

GROUP BY order\_id

ORDER BY Count(item\_id) DES;



**9 --How many orders had more than 12 items?--**

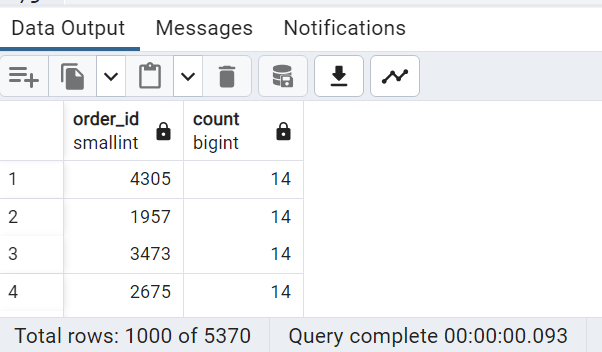
SELECT order\_id, Count(item\_id)

FROM order\_details

Group By order\_id

Having Count(item\_id)> 12

Order By Count(item\_id)DESC;



**10--How many orders had more than 12 items?--**

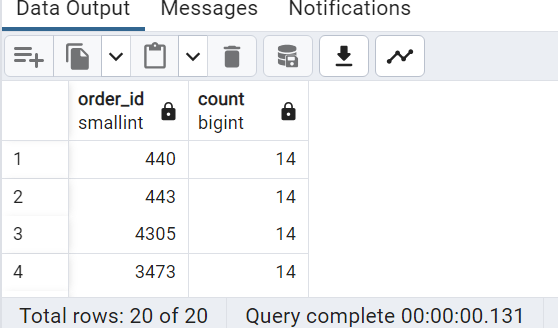
SELECT order\_id, Count(item\_id)

FROM order\_details

Group By order\_id

Having Count(item\_id)> 12

Order By Count(item\_id)DESC;

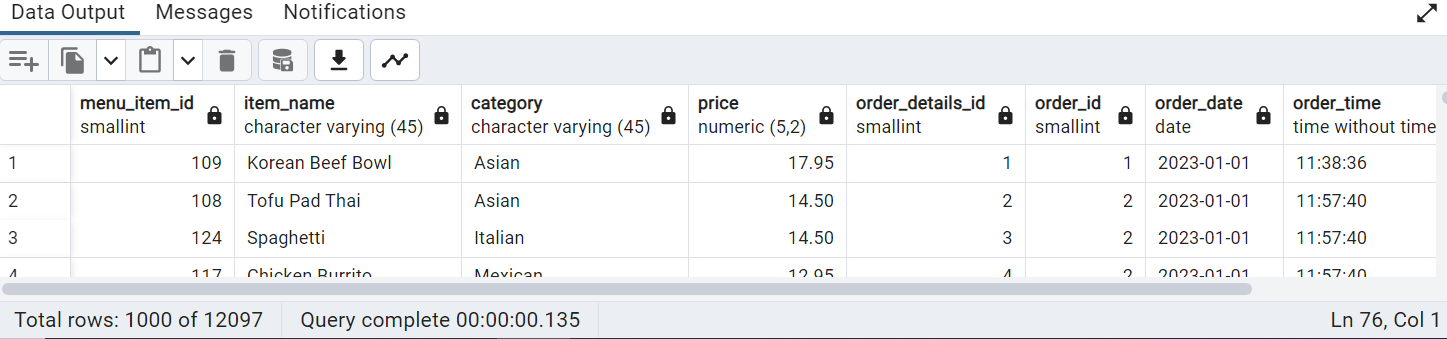


**11--Combine the menu\_items and order\_details tables into a single table--**

SELECT \* FROM menu\_items m

INNER JOIN order\_details o

ON m.menu\_item\_id = o.item\_id;



**12--What were the least and most ordered items? What categories were they in?--**

SELECT m.category, m.item\_name, COUNT(o.order\_id)

FROM menu\_items m

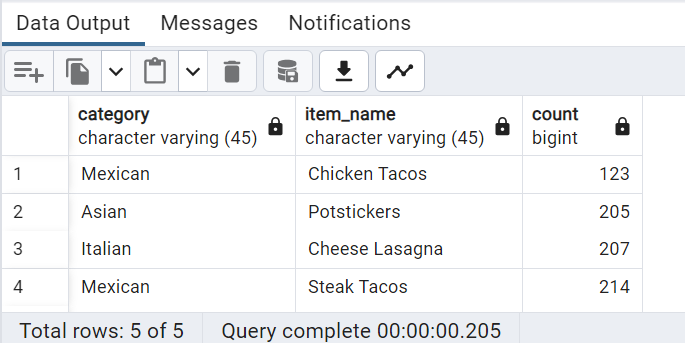
JOIN order\_details o

ON m.menu\_item\_id = o.item\_id

GROUP BY m.category, m.item\_name

ORDER BY COUNT(order\_id)ASC

FETCH FIRST 5 ROWS ONLY;



**---IN DECENDING ORDER---**

SELECT m.category, m.item\_name, COUNT(o.order\_id)

FROM menu\_items m

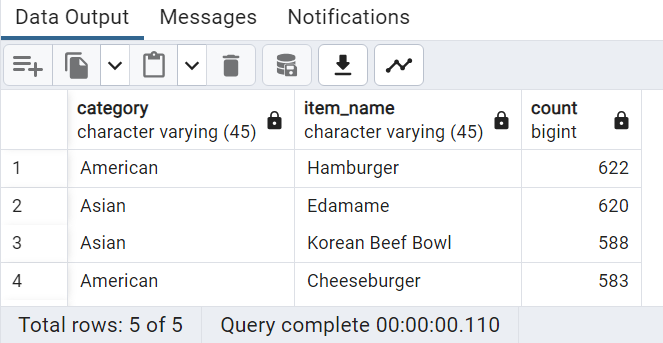
JOIN order\_details o

ON m.menu\_item\_id = o.item\_id

GROUP BY m.category, m.item\_name

ORDER BY COUNT(order\_id) DESC

FETCH FIRST 5 ROWS ONLY;



**13--What were the top 5 orders that spent the most money?--**

SELECT o.order\_id, SUM(m.price)

FROM menu\_items m

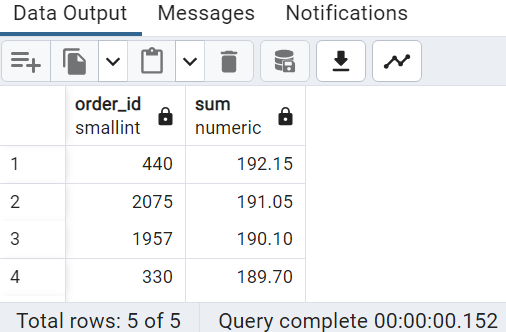
JOIN order\_details o

ON m.menu\_item\_id = o.item\_id

GROUP BY order\_id

ORDER BY SUM(price)DESC

FETCH FIRST 5 ROWS ONLY;



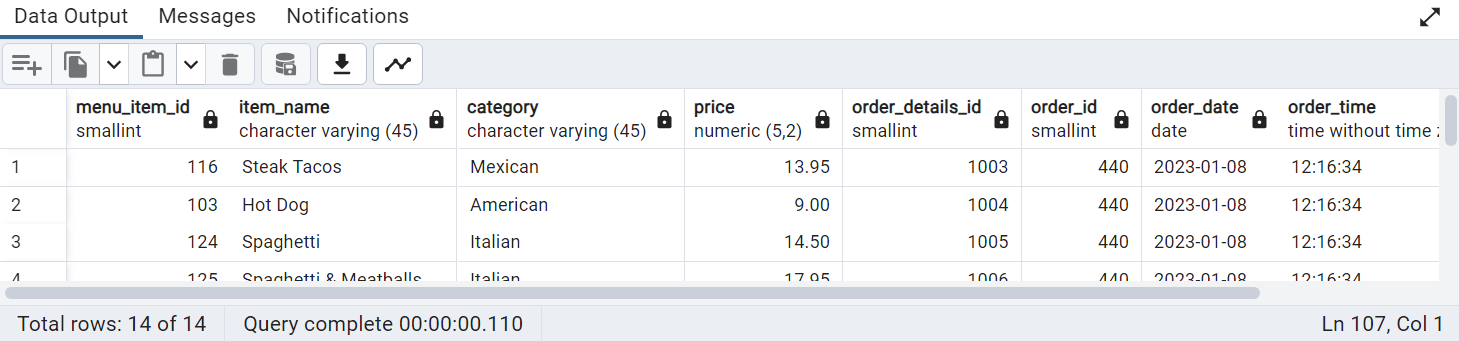
**14--View the details of the highest spend order. Which specific items were purchased?--**

SELECT \* FROM menu\_items m

JOIN order\_details o

ON m.menu\_item\_id = o.item\_id

WHERE order\_id =440;



**15--View the details of the top 5 highest spend orders--**

SELECT \*

FROM menu\_items m

JOIN order\_details o

ON m.menu\_item\_id = o.item\_id

WHERE order\_id IN(440,2075,1957,330,2675);

