

1. Categorize products by stock status

(Display product_name, a new column stock_status whose values are based on below condition

units_in_stock = 0 is 'Out of Stock'

units_in_stock < 20 is 'Low Stock')

The screenshot shows a PostgreSQL query editor interface. The query is as follows:

```
1 /*1.Categorize products by stock status
2 (Display product_name, a new column stock_status whose values are based on below condition
3 units_in_stock = 0 is 'Out of Stock'
4 units_in_stock < 20 is 'Low Stock')*/
5 SELECT * FROM products;
6 SELECT product_name,
7 CASE
8     WHEN units_in_stock = 0 THEN 'out of stock'
9     WHEN units_in_stock < 20 THEN 'Low stock'
10    ELSE 'In Stock'
11 END AS stock_status
12 FROM products;
```

The output table shows the following data:

product_name	stock_status
Chai	In Stock
Chang	Low stock
Aniseed Syrup	Low stock
Chef Anton's Cajun Seasoning	In Stock
Chef Anton's Gumbo Mix	out of stock
Grandma's Boysenberry Spread	In Stock
Uncle Bob's Organic Dried Pears	Low stock
Northwoods Cranberry Sauce	Low stock
Mishi Kobe Niku	In Stock
Ikura	In Stock
Queso Cabrales	In Stock
Queso Manchego La Pastora	In Stock
Konbu	In Stock
Tofu	In Stock
Genen Shouyu	In Stock
Pavlova	In Stock
Alice Mutton	out of stock
Camaron de Tigres	In Stock
Teatime Chocolate Biscuits	In Stock
Sir Rodney's Marmalade	In Stock
Sir Rodney's Scones	Low stock
Gustaf's Knäckebröd	In Stock
Tunnbröd	In Stock
Guaraná Fantástica	In Stock
NuNuCa Nui-Nougat-Creme	In Stock
Gumbär Gummi-Bäckerchen	Low stock
Schoggi Schokolade	In Stock
Rössle Sauerkraut	In Stock
Thüringer Rostbratwurst	out of stock
Nord-Ost Matjeshering	Low stock
Gorgonzola Telino	out of stock
Mascarpone Fabiola	Low stock
Geitost	In Stock
Sasquatch Ale	In Stock
Steeleye Stout	In Stock
Inlagd Sill	In Stock

Total rows: 77 Query complete 00:00:00.079

2. Find All Products in Beverages Category

(Subquery, Display product_name,unitprice)

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Query Query History

```

13
14 /*2.Find All Products in Beverages Category
15 (Subquery, Display product_name,unitprice)*/
16 SELECT * FROM categories;
17 SELECT category_id,
18        product_name,
19        unit_price
20 FROM
21 products
22 WHERE
23 category_id = (
24 SELECT category_id
25 FROM categories
26 WHERE category_name = 'Beverages'
27 );
28

```

Data Output Messages Notifications

Showing rows: 1 to 12 Page No: 1 of 1

	category_id smallint	product_name character varying (40)	unit_price real
1	1	Chai	18
2	1	Chang	19
3	1	Guaraná Fantástica	4.5
4	1	Sasquatch Ale	14
5	1	Steeleye Stout	18
6	1	Côte de Blaye	263.5
7	1	Chartreuse verte	18
8	1	Iphoh Coffee	46
9	1	Laughing Lumberjack Lager	14
10	1	Outback Lager	15
11	1	Rhônebräu Klosterbier	7.75
12	1	Lakkalikööri	18

Total rows: 12 Query complete 00:00:00.077

System

3. Find Orders by Employee with Most Sales

(Display order_id, order_date, freight, employee_id.

Employee with Most Sales=Get the total no.of of orders for each employee then order by DESC and limit 1. Use Subquery)

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Query Query History

```

22 Query RE
23     category_id = (
24         SELECT category_id
25         FROM categories
26         WHERE category_name = 'Beverages'
27     );
28
29 /*3.Find Orders by Employee with Most Sales
30 (Display order_id, order_date, freight, employee_id.
31 Employee with Most Sales=Get the total no.of of orders for each employee then order by DESC
32 and limit 1. Use Subquery)*/
33 SELECT * FROM orders;
34 SELECT order_id,
35        order_date,
36        freight,
37        employee_id
38 FROM orders
39 WHERE employee_id = (
40     SELECT employee_id
41     FROM orders
42     GROUP BY employee_id
43     ORDER BY count(*) DESC
44     LIMIT 1
45 );

```

Data Output Messages Notifications

Showing rows: 1 to 156 Page No: 1 of 1

order_id [PK] smallint	order_date date	freight real	employee_id smallint
10337	1996-10-24	108.26	4
10338	1996-10-25	84.21	4
10342	1996-10-30	54.83	4
10343	1996-10-31	110.37	4
10344	1996-11-01	23.29	4
10347	1996-11-06	3.1	4
10348	1996-11-07	0.78	4
10360	1996-11-22	131.7	4
10363	1996-11-26	30.54	4
10373	1996-12-05	124.12	4
10382	1996-12-13	94.77	4
10389	1996-12-20	47.42	4
10403	1997-01-03	73.79	4
10417	1997-01-16	70.29	4
10418	1997-01-17	17.55	4
10419	1997-01-20	137.35	4
10426	1997-01-27	18.69	4
10427	1997-01-27	31.29	4
10430	1997-01-30	458.78	4
10431	1997-01-30	44.17	4
10440	1997-02-10	86.53	4
10447	1997-02-14	68.66	4
10448	1997-02-17	38.82	4
10451	1997-02-19	189.09	4
10454	1997-02-21	2.74	4
10459	1997-02-27	25.09	4
10464	1997-03-04	89	4

Total rows: 156 Query complete 00:00:00.080

4. Find orders where for country!= 'USA' with freight costs higher than any order from USA. (Subquery, Try with ANY, ALL operators)

WITH ANY:

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Query Query History

```
29 /*3.Find Orders by Employee with Most Sales
30 (Display order_id, order_date, freight, employee_id.
31 Employee with Most Sales=Get the total no.of of orders for each employee then order by DESC
32 and limit 1. Use Subquery)*/
33 SELECT * FROM orders;
34 SELECT order_id,
35 order_date,
36 freight,
37 employee_id
38 FROM orders
39 WHERE employee_id = (
40 SELECT employee_id
41 FROM orders
42 GROUP BY employee_id
43 ORDER BY count(*) DESC
44 LIMIT 1
45 );
46
47 /*4.Find orders where for country!= 'USA' with freight costs higher than any order from USA.
48 (Subquery, Try with ANY, ALL operators)*/
49 SELECT * FROM orders;
50 SELECT order_id, ship_country, freight
51 FROM orders
52 WHERE ship_country != 'USA'
53 AND freight > ANY (
54 SELECT freight FROM orders WHERE ship_country = 'USA'
55 );
56
57 SELECT order_id, ship_country, freight
58 FROM orders
59 WHERE ship_country != 'USA'
60 AND freight > ALL (
61 SELECT freight FROM orders WHERE ship_country = 'USA'
62 );
63
64
```

Data Output Messages Notifications

Showing rows: 1 to 703 Page No: 1 of 1

	order_id (PK) smallint	ship_country character varying (15)	freight real
1	10248	France	32.38
2	10249	Germany	11.61
3	10250	Brazil	65.83
4	10251	France	41.34
5	10252	Belgium	51.3
6	10253	Brazil	58.17
7	10254	Switzerland	22.98
8	10255	Switzerland	148.33
9	10256	Brazil	13.97
10	10257	Venezuela	81.91
11	10258	Austria	140.51
12	10259	Mexico	3.25
13	10260	Germany	55.09
14	10261	Brazil	3.05
15	10263	Austria	146.06
16	10264	Sweden	3.67
17	10265	France	55.28
18	10266	Finland	25.73

Total rows: 703 Query complete 00:00:00.082 LF Ln 50, Col 1

WITH ALL:

Total rows: 2 Query complete 00:00:00.115 LF Ln 57, Col 1