

DAY 6 Assignment

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')

```
select product_name,  
       case  
         when units_in_stock = 0 then 'Out of Stock'  
         when units_in_stock < 20 then 'Low Stock'  
         else 'Normal stock'  
       end as stock_status  
from products;
```

19	▼	/*1.Categorize products by stock status
20		(Display product_name, a new column stock_status whose
21		units_in_stock = 0 is 'Out of Stock'
22		units_in_stock < 20 is 'Low Stock') */
23		--select * from products;
24		
25	▼	select product_name,
26		case
27		when units_in_stock = 0 then 'Out of Stock'
28		when units_in_stock < 20 then 'Low Stock'
29		else 'Normal stock'
30		end as stock_status
31		from products;
32		

Data Output			Messages	Notifications
	product_name character varying (40)	stock_status text		
1	Chai	Normal stock		
2	Chang	Low Stock		
3	Aniseed Syrup	Low Stock		
4	Chef Anton's Cajun Seasoning	Normal stock		
5	Chef Anton's Gumbo Mix	Out of Stock		
6	Grandma's Boysenberry Spread	Normal stock		
7	Uncle Bob's Organic Dried Pears	Low Stock		
8	Northwoods Cranberry Sauce	Low Stock		
9	Mishi Kobe Niku	Normal stock		
10	Ikura	Normal stock		
11	Queso Cabrales	Normal stock		
12	Queso Manchego La Pastora	Normal stock		
13	Konbu	Normal stock		
14	Tofu	Normal stock		
Total rows: 77			Query complete 00:00:00.099	

2. Find All Products in Beverages Category (Subquery, Display product_name,unitprice)

```
select product_name, unit_price
from products
where category_id = (select category_id
from categories
where category_name = 'Beverages'
)
order by 1;
```

```
20
21  /* 2.Find All Products in Beverages Category
22  (Subquery, Display product_name,unitprice) */
23  --select * from products;
24  --select * from categories;
25
26  select product_name, unit_price
27  from products
28  where category_id = (select category_id
29                      from categories
30                      where category_name = 'Beverages'
31                      )
32  order by 1;
33
```

Data Output Messages Notifications

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

Total rows: 12 Query complete 00:00:00.108

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)

```
select order_id, order_date, freight, employee_id
from orders
where employee_id = (select employee_id
from orders
group by employee_id
order by count(order_id) desc
limit 1)
```

35

▼

/*3.Find Orders by Employee with Most Sales

36

(Display order_id, order_date, freight, employee_id.

37

Employee with Most Sales=Get the total no.of of orders fo

38

39

--select * from orders;

40

--select * from employees;

41

42

▼

select order_id, order_date, freight, employee_id

43

from orders

44

where employee_id = (select employee_id

45

from orders

46

group by employee_id

47

order by count(order_id) desc

48

limit 1

49

)

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Data Output

Messages

Notifications

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SQL

	order_id [PK] smallint	order_date date	freight real	employee_id smallint
1	10250	1996-07-08	65.83	4
2	10252	1996-07-09	51.3	4
3	10257	1996-07-16	81.91	4
4	10259	1996-07-18	3.25	4
5	10260	1996-07-19	55.09	4
6	10261	1996-07-19	3.05	4
7	10267	1996-07-29	208.58	4
8	10281	1996-08-14	2.94	4
9	10282	1996-08-15	12.69	4
10	10284	1996-08-19	76.56	4
11	10288	1996-08-23	7.45	4
12	10294	1996-08-30	147.26	4
13	10299	1996-09-06	29.76	4
14	10302	1996-09-10	6.27	4
...

Total rows: 156

Query complete 00:00:00.124

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

ANY operator:

```
select order_id, ship_country, freight
from orders
where ship_country != 'USA'
and freight > any(select freight from orders where ship_country = 'USA'
order by freight desc)
order by freight desc;
```

49 / *4. Find orders where for country != 'USA' with freight costs higher than any order from USA.

50

51 select order_id, ship_country, freight

52 from orders

53 where ship_country != 'USA'

54 and freight > any(select freight from orders where ship_country = 'USA' order by freight desc)

55 order by freight desc;

56

Data Output Messages Notifications

SQL

	order_id [PK] smallint	ship_country character varying (15)	freight real
1	10540	Germany	1007.64
2	10372	Brazil	890.78
3	10691	Germany	810.05
4	10514	Austria	789.95
5	11017	Austria	754.26
6	10897	Ireland	603.54
7	10912	Ireland	580.91
8	10634	France	487.38
9	10633	Austria	477.9
10	10430	Austria	458.78
11	10841	Belgium	424.3
12	10836	Austria	411.88
13	10694	Germany	398.36
14	10605	Canada	379.13
15	10424	Canada	370.61
16	10658	Germany	364.15
17	10353	Austria	360.63
18	10979	Austria	353.07
19	10776	Austria	351.50

Total rows: 703 Query complete 00:00:00.118

ALL operator:

```
select order_id, ship_country, freight
from orders
where ship_country != 'USA'
and freight > all(select freight from orders where ship_country = 'USA')
order by freight desc;
```

```
48
49 /*4.Find orders where for country!= 'USA' with freight costs higher than any order from USA. (
50
51 select order_id, ship_country, freight
52 from orders
53 where ship_country != 'USA'
54 and freight > any(select freight from orders where ship_country = 'USA' order by freight desc)
55 order by freight desc;
56
57
58 v select order_id, ship_country, freight
59 from orders
60 where ship_country != 'USA'
61 and freight > all(select freight from orders where ship_country = 'USA')
62 order by freight desc;
63
64
65
66
```

Data Output Messages Notifications

	order_id [PK] smallint	ship_country character varying (15)	freight real
1	10540	Germany	1007.64
2	10372	Brazil	890.78

Total rows: 2 Query complete 00:00:00.093