

**CECS 323  
Spring 2020  
Lab Midterm 1**

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1. List the customer name and the product name for all products that have been ordered by the same customer on six or more orders.

```
select CUSTOMERNAME, PRODUCTNAME
from customers natural join ORDERS natural join ORDERDETAILS natural join
PRODUCTS
group by CUSTOMERNAME, PRODUCTNAME having count(PRODUCTNAME) >= 6;
```

Euro+ Shopping Channel	1958 Chevy Corvette Limited Edition
Euro+ Shopping Channel	1970 Dodge Coronet
Euro+ Shopping Channel	1992 Ferrari 360 Spider red

2. List the products and the profit that we have made on them. The profit in each order for a given product is  $(\text{priceEach} - \text{buyPrice}) * \text{quantityOrdered}$ . List the product's name and code with the total profit that we have earned selling that product. Order the rows descending by profit. Only show those products whose profit is greater than \$60,000.00. List them from the highest profit to the lowest. Tip – the database management system will let you make an alias for the profit, but it will not allow you to refer to that calculated value elsewhere in the query. For instance, you will have to use the same calculation again for the order by.

```
select PRODUCTCODE, sum((PRICEEACH - BUYPRICE) * QUANTITYORDERED)
as profit
from products natural join ORDERDETAILS
group by PRODUCTNAME, PRODUCTCODE
having sum((PRICEEACH - BUYPRICE) * QUANTITYORDERED) > 60000
order by profit desc;
```

S18_3232	135996.78
S10_1949	95282.58
S12_1108	93349.65
S10_4698	81031.30

S12_1099	72579.26
S12_3891	72399.77
S18_2795	68423.18
S12_2823	67641.47
S18_1662	64599.11
S18_3685	62725.78
S18_1749	60945.00

- For each country, list the number of customers located in that country. Display the results in descending order by the number of customers.

```
select country, count(*) as number_of_customers
from customers group by country order by number_of_customers desc
```

USA	36
Germany	13
France	12
Spain	7
UK	5
Australia	5
New Zealand	4
Italy	4
Switzerland	3
Singapore	3
Norway	3
Finland	3
Canada	3
Sweden	2
Portugal	2
Japan	2
Ireland	2
Denmark	2

Belgium	2
Austria	2
South Africa	1
Russia	1
Poland	1
Philippines	1
Netherlands	1
Israel	1
Hong Kong	1

4. List all the different scales in which we sell our models.

```
select distinct PRODUCTSCALE from PRODUCTS;
```

1:72  
1:50  
1:700  
1:18  
1:24  
1:12  
1:10  
1:32

5. What is the number of orders per status

```
select count(ORDERNUMBER) as count_status, status from ORDERS  
group by status
```

6	Cancelled
3	Disputed
6	In Process
4	On Hold
4	Resolved
303	Shipped