

- **The question number: 1**
What is the total number of orders placed by each customer? Only the customer id and total orders per customer should show up in the output, and the column names should be the same with the ones showed in the sample below.
- **The SQL query that you created to answer the question**
`select customerid, count(orderid) as totalorders from orders group by customerid;`
- **A screenshot of the output that your query produces.**

	A-Z customerid ▼	123 totalorders ▼
1	TOMSP	6
2	LONEP	8
3	OLDWO	10
4	WARTH	15
5	MAGAA	10
6	QUEEN	13
7	VINET	5
8	ANTON	7
9	MORGK	5
10	GOURL	9
11	WOLZA	7
12	GALED	5
13	RATTC	18
14	WELLI	9
15	WILMK	7

- **The question number: 2**

Write a query to display the total quantity and the average price of products ordered for each order. The output should only display the order id, the total quantity ordered, and the average unit price (simple average, not weighted average) in each order. The column names should be the same with the ones showed in the sample below.

- **The SQL query that you created to answer the question**

select **orderid**, **sum**(quantity) **as** **totalquantity**, **avg**(unitprice) **from** **orderdetails** **group by** **orderid**;

- **A screenshot of the output that your query produces.**

	123 orderid	123 totalquantity	123 avg
1	11,038	37	15.6333332062
2	10,782	1	12.5
3	10,725	22	13.5499998728
4	10,423	34	27
5	10,518	29	95.816666921
6	10,356	62	19.3333333333
7	10,963	2	34
8	10,596	59	29.8833333842
9	10,282	8	18.1500005722
10	10,658	255	18.8499999046
11	10,283	76	18.6749999523
12	10,579	31	11.625
13	10,693	111	38.8624999523
14	10,896	31	23.75
15	10,660	21	81

- **The question number: 3**

Find the top 5 customers with the highest number of orders. Only the customer id and total orders per customer should show up in the output, and the column names should be the same with the ones showed in the sample below.

- **The SQL query that you created to answer the question**

select **customerid**, **count**(orderid) **as** **totalorders** **from** **orders**

group by customerid
 order by count(orderid) desc
 limit 5;

- A screenshot of the output that your query produces.

	A-Z customerid ▼	123 totalorders ▼
1	SAVEA	31
2	ERNSH	30
3	QUICK	28
4	HUNGO	19
5	FOLKO	19

- The question number: 4
 Find the customers who have placed more than 10 orders. In your output, you should only display the customer ID and the total number of orders for each of those customers. The column names should be the same with the ones showed in the sample below.

- The SQL query that you created to answer the question
 select customerid, count(orderid) as totalorders from orders
 group by customerid
 having count(orderid) > 10;

- A screenshot of the output that your query produces.

	A-Z customerid ▼	123 totalorders ▼
1	WARTH	15
2	QUEEN	13
3	RATTC	18
4	FRANK	15
5	LEHMS	15
6	RICAR	11
7	LINOD	12
8	QUICK	28
9	HUNGO	19
10	AROUT	13
11	KOENE	14
12	MEREP	13
13	BONAP	17
14	HANAR	14
15	BERGS	18

- The question number: 5

Revenue is defined as [units sold * unit price]. The column names should be the same with the ones showed in the sample below.

- The SQL query that you created to answer the question
select productid, **sum**(quantity * unitprice) **as** revenue **from** orderdetails
group by productid
- A screenshot of the output that your query produces.

	123 productid	123 revenue
1	74	2,566
2	54	5,120.9999489784
3	29	87,736.4005126953
4	71	20,876.500328064
5	4	9,424.8000469208
6	68	9,362.5
7	34	6,677.9999723434
8	51	44,742.6003189087
9	52	3,383.7999920845
10	70	11,472
11	67	2,561.9999990463
12	63	17,696.3000411987
13	10	22,140.1998939514
14	35	14,536.7998561859
15	45	4,740.4999957085

- The question number: 6
 Which products have average unit price greater than \$50? Only display the product ids and their average price. The column names should be the same with the ones showed in the sample below and the price column should have integer values.
- The SQL query that you created to answer the question
select productid, **round**(avg(unitprice)) **as** avgprice **from** orderdetails
group by productid
having avg(unitprice) > 50 ;

- A screenshot of the output that your query produces.

	123 productid ▼	123 avgprice ▼
1	29 ↗	116
2	51 ↗	51
3	59 ↗	51
4	9 ↗	93
5	38 ↗	246
6	20 ↗	76
7	18 ↗	60

- **The question number: 7**
What is the highest unit price for each product? Only display the product ids and their highest price. The column names should be the same with the ones showed in the sample below.
- **The SQL query that you created to answer the question**
`select productid, max(unitprice) as maxprice from orderdetails group by productid;`
- A screenshot of the output that your query produces.

	123 productid ▼	123 maxprice ▼
1	74 ↗	10
2	54 ↗	7.45
3	29 ↗	123.79
4	71 ↗	21.5
5	4 ↗	22
6	68 ↗	12.5
7	34 ↗	14
8	51 ↗	53
9	52 ↗	7
10	70 ↗	15
11	67 ↗	14
12	63 ↗	43.9
13	10 ↗	31
14	35 ↗	18
15	45 ↗	9.5










- **The question number: 8**

How many different customers did each Northwind employee work with in 1997? The output should only include the employee ID (in an increasing order) and the number of customers each employee worked with in 1997. For dates, use the format 'yyyy-mm-dd'. The column names should be the same with the ones showed in the sample below.

- **The SQL query that you created to answer the question**

```
select employeeid, count(distinct customerid) as number_of_customers_in_97
from orders
where orderdate >= '1997-01-01' and orderdate < '1998-01-01'
group by employeeid
order by employeeid
```

- **A screenshot of the output that your query produces.**

	123 employeeid ▼	123 number_of_customers_in_97 ▼
1	1 	40
2	2 	35
3	3 	46
4	4 	57
5	5 	13
6	6 	24
7	7 	30
8	8 	36
9	9 	16