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MySQL Lab Delivery

1. Get the first 5 products of category "meat" sorted by description

```
mysql> select * from products
      -> where category = "meat"
      -> order by (description)
      -> limit 5;
```

id	category	description
14	meat	roast chicken
96	meat	Beef Flat Iron Steak
97	meat	Chevere Logs
22	meat	Chicken - Breast
56	meat	Cornish Hen

2. Which products contain Beers?

```
mysql> select * from products
      -> where lower(description) like '%beer%';
```

id	category	description
29	spirits	Beer - Moosehead
33	spirit	Beer - Blue Light

3. Get all products details of all items in the catalog

```
mysql> select *
      -> from products
      -> natural join stock
      -> limit 5;
```

id	category	description	quantity
----	----------	-------------	----------

1	soda	mountain dew	50
2	dairy	skimmed milk	87
3	spirits	rhein	2
4	dairy	milk	63
5	Cleaning	soap-2	46

4. Get the 5 customers that have purchased more products in stock

```
mysql> select custId, sum(quant) as 'total'
-> from orders
-> group by (custId)
-> order by (total) desc
-> limit 5;
```

custId	total
12	498
72	407
67	390
68	379
5	357

5. Get the providers for the customers of the last query

```
mysql> select custId, sum(quant) as 'total', providers.name
-> from orders
-> join providers on (orders.custId = providers.id)
-> group by custId
-> order by total desc
-> limit 5;
```

custId	total	name
46	491	Jabberbean
75	434	Skimia
78	422	Eazzy
52	393	Twitterwire
9	362	Meezzy

6. How many providers have products in stock?

```
mysql> select count(distinct providers.name)
      -> from providers
      -> join orders on (orders.provId = providers.id)
      -> join products on (orders.prodId = products.id)
      -> join stock on (products.id = stock.id);
```

```
+-----+
| count(distinct providers.name) |
+-----+
|                               80 |
+-----+
```

7. Which is the average purchased quantity of products in stock?

We get different outputs if we query in MariaDB and in mysql. In MariaDB the results are sorted by prodId.

```
mysql> select prodId, avg(quant) as 'average'
      -> from orders
      -> group by (prodId)
      -> limit 5;
```

```
+-----+-----+
| prodId | average |
+-----+-----+
|      30 | 39.6667 |
|      61 | 43.5000 |
|      27 | 45.8333 |
|      97 | 35.0000 |
|       7 | 74.6667 |
+-----+-----+
```

```
MariaDB [orders]> select prodId, avg(quant) as 'average'
                  -> from orders
                  -> group by (prodId)
                  -> limit 5;
```

```
+-----+-----+
| prodId | average |
+-----+-----+
|      1 | 27.4286 |
|      2 | 50.0000 |
```

	3		85.5000	
	4		34.0000	
	5		25.6667	

```

+-----+-----+

```

8. Is there any city in common between providers and customers?

```

mysql> select distinct customers.city
      -> from customers
      -> join providers on (customers.city = providers.city);

```

```

+-----+
| city  |
+-----+
| Krakow |
+-----+

```

9. Is there any product with the double of quantity in different orders?

```

mysql> select orders.id, orders.quant, orders2.id, orders2.quant
      -> from orders join orders as orders2
      -> on (orders.quant = 2*orders2.quant and orders.prodId = orders2.prodId);

```

```

+-----+-----+-----+-----+
| id  | quant | id  | quant |
+-----+-----+-----+-----+
| 165 |    64 |  32 |    32 |
| 266 |    14 |  56 |     7 |
|  59 |    40 |  96 |    20 |
| 292 |    54 | 103 |    27 |
| 161 |     0 | 161 |     0 |
| 181 |    66 | 168 |    33 |
| 226 |    86 | 199 |    43 |
|  92 |    22 | 207 |    11 |
| 257 |    56 | 237 |    28 |
| 269 |    44 | 245 |    22 |
|  21 |    16 | 253 |     8 |
|  24 |    16 | 253 |     8 |
| 258 |     0 | 258 |     0 |
| 297 |    34 | 262 |    17 |
| 283 |     0 | 283 |     0 |
+-----+-----+-----+-----+

```

10. Can you find the total number of customers for each city?

```
mysql> select city, count(city)
      -> from orders
      -> join customers on (orders.custId = customers.id)
      -> group by city limit 5;
```

city	count(city)
Huazhai	6
Peabiru	11
Moulay Yacoub	1
Decatur	4
Darnah	2