1. Berdasarkan tabel yang telah dibuat pada praktikum sebelumnya untuk skema orderentry tampilkan data data berikut ini:
   a. Tampilkan data customers berdasarkan nama customer secara urut dari a sampai z (dari terkecil hingga terbesar)

Before:

```
MariaDB [orderentry]> select*from customers;
+---------+---------------+---------------------+----------+------------+----------+--------------+---------------+---------------------+
| cust_id | cust_name     | cust_address        | cust_city | cust_state | cust_zip | cust_country | cust_contract | cust_email          |
+---------+---------------+---------------------+----------+------------+----------+--------------+---------------+---------------------+
| 10002   | Mouse House   | 333 Fromage Lane    | Columbus | OH         | 4333     | USA          | Jerry Mouse   | NULL                |
| 10003   | Wascals       | 1 Sunny Place       | Muncie   | IN         | 42222    | USA          | Jim Jones     | rabbit@wascally.com |
| 10004   | Yosemite Place| 829 Riverside Drive | Phoenix  | AZ         | 88888    | USA          | Y Sam         | sam@yosemite.com    |
| 10005   | E Fudd        | 4545 53rd Street    | Chicago  | IL         | 54545    | USA          | E Fudd        | NULL                |
+---------+---------------+---------------------+----------+------------+----------+--------------+---------------+---------------------+
4 rows in set (0.001 sec)
```

After:

```
MariaDB [orderentry]> select*from customers order by cust_name asc;
+---------+---------------+---------------------+----------+------------+----------+--------------+---------------+---------------------+
| cust_id | cust_name     | cust_address        | cust_city | cust_state | cust_zip | cust_country | cust_contract | cust_email          |
+---------+---------------+---------------------+----------+------------+----------+--------------+---------------+---------------------+
| 10005   | E Fudd        | 4545 53rd Street    | Chicago  | IL         | 54545    | USA          | E Fudd        | NULL                |
| 10002   | Mouse House   | 333 Fromage Lane    | Columbus | OH         | 4333     | USA          | Jerry Mouse   | NULL                |
| 10003   | Wascals       | 1 Sunny Place       | Muncie   | IN         | 42222    | USA          | Jim Jones     | rabbit@wascally.com |
| 10004   | Yosemite Place| 829 Riverside Drive | Phoenix  | AZ         | 88888    | USA          | Y Sam         | sam@yosemite.com    |
+---------+---------------+---------------------+----------+------------+----------+--------------+---------------+---------------------+
4 rows in set (0.000 sec)
```

MariaDB [orderentry]> select*from customers order by cust_name asc;

cust_id	cust_name	cust_address	cust_city	cust_state	cust_zip	cust_country	cust_contract	cust_email
10005	E Fudd	4545 53rd Street	Chicago	IL	54545	USA	E Fudd	NULL
10002	Mouse House	333 Fromage Lane	Columbus	OH	4333	USA	Jerry Mouse	NULL
10003	Wascals	1 Sunny Place	Muncie	IN	42222	USA	Jim Jones	rabbit@wascally.com
10004	Yosemite Place	829 Riverside Drive	Phoenix	AZ	88888	USA	Y Sam	sam@yosemite.com

4 rows in set (0.000 sec)

b. Tampilkan data vendor berdasarkan nama vendor dari yang terbesar ke yang terkecil, ada berapa vemdor di table vendor

Before:

```
MariaDB [orderentry]> select*from vendors;
+---------+--------------+----------------+-------------+------------+----------+--------------+
| vend_id | vend_name    | vend_address   | vend_city   | vend_state | vend_zip | vend_country |
+---------+--------------+----------------+-------------+------------+----------+--------------+
| 1001    | Anvils R Us  | 123 Main Street| Southfield  | MI         | 48075    | USA          |
| 1002    | LT Supplies  | 500 Park Street| Anytown     | OH         | 44333    | USA          |
| 1003    | ACME         | 555 High Street| Los Angeles | CA         | 90046    | USA          |
| 1004    | Furball Inc. | 1000 5th Avenue| New York    | NY         | 11111    | USA          |
| 1005    | Jet Set      | 42 Galaxy Road | London      | NULL       | N16 6PS  | England      |
+---------+--------------+----------------+-------------+------------+----------+--------------+
5 rows in set (0.001 sec)
```

After:

```
MariaDB [orderentry]> select*from vendors order by vend_name desc;
+---------+--------------+----------------+-------------+------------+----------+--------------+
| vend_id | vend_name    | vend_address   | vend_city   | vend_state | vend_zip | vend_country |
+---------+--------------+----------------+-------------+------------+----------+--------------+
| 1002    | LT Supplies  | 500 Park Street| Anytown     | OH         | 44333    | USA          |
| 1005    | Jet Set      | 42 Galaxy Road | London      | NULL       | N16 6PS  | England      |
| 1004    | Furball Inc. | 1000 5th Avenue| New York    | NY         | 11111    | USA          |
| 1001    | Anvils R Us  | 123 Main Street| Southfield  | MI         | 48075    | USA          |
| 1003    | ACME         | 555 High Street| Los Angeles | CA         | 90046    | USA          |
+---------+--------------+----------------+-------------+------------+----------+--------------+
5 rows in set (0.002 sec)
```

MariaDB [orderentry]> select*from vendors order by vend_name desc;

vend_id	vend_name	vend_address	vend_city	vend_state	vend_zip	vend_country
1002	LT Supplies	500 Park Street	Anytown	OH	44333	USA
1005	Jet Set	42 Galaxy Road	London	NULL	N16 6PS	England
1004	Furball Inc.	1000 5th Avenue	New York	NY	11111	USA
1001	Anvils R Us	123 Main Street	Southfield	MI	48075	USA
1003	ACME	555 High Street	Los Angeles	CA	90046	USA

5 rows in set (0.002 sec)

```
MariaDB [orderentry]> select count(vend_name) from vendors;
+------------------+
| count(vend_name) |
+------------------+
|                5 |
+------------------+
1 row in set (0.000 sec)
```

MariaDB [orderentry]> select count(vend_name) from vendors;

count(vend_name)
5

```
+------------------+
1 row in set (0.000 sec)
```

c. Tampilkan data orderitems berdasarkan quantity dari yang terbesar ke yang terkecil
Before:

```
MariaDB [orderentry]> select*from orderitems;
+-----------+------------+---------+----------+
| order_num | order_item | prod_id | quantity |
+-----------+------------+---------+----------+
|     20005 |          1 | ANV01   |       10 |
|     20006 |          1 | JP2000  |        1 |
|     20007 |          1 | TNT2    |        1 |
|     20008 |          1 | FC      |       50 |
|     20009 |          1 | FB      |        1 |
|     20005 |          2 | ANV02   |        3 |
|     20009 |          2 | OL1     |        1 |
|     20005 |          3 | TNT2    |        5 |
|     20009 |          3 | Sling   |        1 |
|     20005 |          4 | FB      |        1 |
|     20009 |          4 | ANV01   |        1 |
+-----------+------------+---------+----------+
11 rows in set (0.001 sec)
```

After:

```
MariaDB [orderentry]> select*from orderitems order by quantity desc;
+-----------+------------+---------+----------+
| order_num | order_item | prod_id | quantity |
+-----------+------------+---------+----------+
|     20008 |          1 | FC      |       50 |
|     20005 |          1 | ANV01   |       10 |
|     20005 |          3 | TNT2    |        5 |
|     20005 |          2 | ANV02   |        3 |
|     20009 |          1 | FB      |        1 |
|     20007 |          1 | TNT2    |        1 |
|     20009 |          2 | OL1     |        1 |
|     20006 |          1 | JP2000  |        1 |
|     20009 |          3 | Sling   |        1 |
|     20005 |          4 | FB      |        1 |
|     20009 |          4 | ANV01   |        1 |
+-----------+------------+---------+----------+
11 rows in set (0.000 sec)
```

MariaDB [orderentry]> select*from orderitems order by quantity desc;

order_num	order_item	prod_id	quantity
20008	1	FC	50
20005	1	ANV01	10
20005	3	TNT2	5
20005	2	ANV02	3
20009	1	FB	1
20007	1	TNT2	1
20009	2	OL1	1
20006	1	JP2000	1
20009	3	Sling	1
20005	4	FB	1
20009	4	ANV01	1

```
+-----------+------------+---------+----------+
```
11 rows in set (0.000 sec)

d. Tampilkan fungsi agregasi banyaknya, total, rata-rata, jumlah minimal, jumlah maksimal dari quantity penjualan. Data berasal dari table orderitems

```
MariaDB [orderentry]> select count(quantity), sum(quantity), avg(quantity), min(quantity), max(quantity) from orderitems;
+-----------------+---------------+---------------+---------------+---------------+
| count(quantity) | sum(quantity) | avg(quantity) | min(quantity) | max(quantity) |
+-----------------+---------------+---------------+---------------+---------------+
|              11 |            75 |        6.8182 |             1 |            50 |
+-----------------+---------------+---------------+---------------+---------------+
1 row in set (0.001 sec)
```
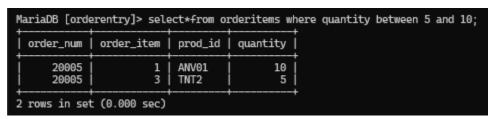
MariaDB [orderentry]> select count(quantity), sum(quantity), avg(quantity), min(quantity), max(quantity) from orderitems;

```
+-----------------+---------------+---------------+---------------+---------------+
| count(quantity) | sum(quantity) | avg(quantity) | min(quantity) | max(quantity) |
+-----------------+---------------+---------------+---------------+---------------+
|              11 |            75 |        6.8182 |             1 |            50 |
+-----------------+---------------+---------------+---------------+---------------+
```
1 row in set (0.001 sec)

e. Tampilkan data orderitems dimana quantitynya antara 5-10

```
MariaDB [orderentry]> select*from orderitems where quantity between 5 and 10;
+-----------+------------+---------+----------+
| order_num | order_item | prod_id | quantity |
+-----------+------------+---------+----------+
|     20005 |          1 | ANV01   |       10 |
|     20005 |          3 | TNT2    |        5 |
+-----------+------------+---------+----------+
2 rows in set (0.000 sec)
```

MariaDB [orderentry]> select*from orderitems where quantity between 5 and 10;

```
+-----------+------------+---------+----------+
| order_num | order_item | prod_id | quantity |
+-----------+------------+---------+----------+
|     20005 |          1 | ANV01   |       10 |
|     20005 |          3 | TNT2    |        5 |
+-----------+------------+---------+----------+
```
2 rows in set (0.000 sec)

f. Tampilkan data vendor id yang countrynya USA
Before:

```
MariaDB [orderentry]> select*from vendors;
+---------+-------------+----------------+-------------+------------+----------+--------------+
| vend_id | vend_name   | vend_address   | vend_city   | vend_state | vend_zip | vend_country |
+---------+-------------+----------------+-------------+------------+----------+--------------+
|    1001 | Anvils R Us | 123 Main Street | Southfield  | MI         | 48075    | USA          |
|    1002 | LT Supplies | 500 Park Street | Anytown     | OH         | 44333    | USA          |
|    1003 | ACME        | 555 High Street | Los Angeles | CA         | 90046    | USA          |
|    1004 | Furball Inc.| 1000 5th Avenue | New York    | NY         | 11111    | USA          |
|    1005 | Jet Set     | 42 Galaxy Road  | London      | NULL       | N16 6PS  | England      |
+---------+-------------+----------------+-------------+------------+----------+--------------+
5 rows in set (0.000 sec)
```

After:

MariaDB [orderentry]> select vend_id, vend_name, vend_address, vend_city, vend_state, vend_zip from vendors where vend_country in ('USA');

+---------+--------------+-----------------+-------------+------------+----------+
| vend_id | vend_name | vend_address | vend_city | vend_state | vend_zip |
+---------+--------------+-----------------+-------------+------------+----------+
1001	Anvils R Us	123 Main Street	Southfield	MI	48075
1002	LT Supplies	500 Park Street	Anytown	OH	44333
1003	ACME	555 High Street	Los Angeles	CA	90046
1004	Furball Inc.	1000 5th Avenue	New York	NY	11111
+---------+--------------+-----------------+-------------+------------+----------+
4 rows in set (0.001 sec)

g. Tampilkan nama produk dan nama vndor pada product dan vendors yang mengandung huruf p

P pada products:

MariaDB [orderentry]> select*from products where prod_name like '%p%';

+---------+---------+--------------+------------+------------------------------------+
| prod_id | vend_id | prod_name | prod_price | desc_prod |
+---------+---------+--------------+------------+------------------------------------+
| JP1000 | 1005 | JetPack 1000 | 35 | JetPack 1000,intended for single use |
| JP2000 | 1005 | JetPack 2000 | 55 | JetPack 2000, multi use |
+---------+---------+--------------+------------+------------------------------------+
2 rows in set (0.013 sec)

P pada vendors:

MariaDB [orderentry]> select*from vendors where vend_name like '%p%';

+---------+-------------+-----------------+-----------+------------+----------+--------------+
| vend_id | vend_name | vend_address | vend_city | vend_state | vend_zip | vend_country |
+---------+-------------+-----------------+-----------+------------+----------+--------------+

| 1002 | LT Supplies | 500 Park Street | Anytown | OH | 44333 | USA | |

```
+---------+-------------+-----------------+-----------+------------+----------+--------------+
```

1 row in set (0.000 sec)

h. Tampilkan prod_name sebagai nama produk dan prod_price sebagai Harganya dari table product

```
MariaDB [orderentry]> select prod_name as 'Nama produk', prod_price as 'Harganya' from products;
+--------------+----------+
| Nama produk  | Harganya |
+--------------+----------+
| 5 ton anvil  |        6 |
| 1 ton anvil  |       10 |
| 2 ton anvil  |       15 |
| Detonator    |       13 |
| Bird Seed    |       10 |
| Carrots      |        3 |
| Fuses        |        3 |
| JetPack 1000 |       35 |
| JetPack 2000 |       55 |
| oil can      |        9 |
| Safe         |       50 |
| Sling        |        4 |
| INT (1 stick)|        3 |
| TNT (5 stick)|       10 |
+--------------+----------+
14 rows in set (0.000 sec)
```

MariaDB [orderentry]> select prod_name as 'Nama produk', prod_price as 'Harganya' from products;

```
+---------------+----------+
| Nama produk   | Harganya |
+---------------+----------+
| 5 ton anvil   |        6 |
| 1 ton anvil   |       10 |
| 2 ton anvil   |       15 |
| Detonator     |       13 |
| Bird Seed     |       10 |
| Carrots       |        3 |
| Fuses         |        3 |
| JetPack 1000  |       35 |
| JetPack 2000  |       55 |
| oil can       |        9 |
| Safe          |       50 |
| Sling         |        4 |
| INT (1 stick) |        3 |
| TNT (5 stick) |       10 |
+---------------+----------+
14 rows in set (0.000 sec)
```

2. Operasikan perintah SQ untuk menampilkan:
   a. Tanggal sekarang menjadi tanggal hari ini

```
MariaDB [orderentry]> select current_date as 'Tanggal hari ini';
+------------------+
| Tanggal hari ini |
+------------------+
| 2024-10-04       |
+------------------+
1 row in set (0.000 sec)
```

MariaDB [orderentry]> select current_date as 'Tanggal hari ini';

+------------------+
| Tanggal hari ini |
+------------------+
| 2024-10-04 |
+------------------+
1 row in set (0.000 sec)

   b. Jam sekarang

```
MariaDB [orderentry]> select current_time as 'Jam sekarang';
+--------------+
| Jam sekarang |
+--------------+
| 09:49:33     |
+--------------+
1 row in set (0.000 sec)
```

MariaDB [orderentry]> select current_time as 'Jam sekarang';

+--------------+
| Jam sekarang |
+--------------+
| 09:49:33 |
+--------------+
1 row in set (0.000 sec)

   c. Jam sekarang – jam awal masuk praktikum

```
MariaDB [orderentry]> select current_time as 'Jam sekarang', '07.00.00' as 'jam mulai praktikum';
+--------------+---------------------+
| Jam sekarang | jam mulai praktikum |
+--------------+---------------------+
| 10:22:20     | 07.00.00            |
+--------------+---------------------+
1 row in set (0.000 sec)
```

MariaDB [orderentry]> select current_time as 'Jam sekarang', '07.00.00' as 'jam mulai praktikum';

+--------------+---------------------+
| Jam sekarang | jam mulai praktikum |

```
+--------------+--------------------+
| 10:22:20     | 07.00.00          |
+--------------+--------------------+
```
1 row in set (0.000 sec)

d. Tahun sekarang – tahun lahir anda

```
MariaDB [orderentry]> select year(current_time) as 'Tahun sekarang', 2005 as 'tahun lahir';
+----------------+-------------+
| Tahun sekarang | tahun lahir |
+----------------+-------------+
|           2024 |        2005 |
+----------------+-------------+
1 row in set (0.001 sec)
```

MariaDB [orderentry]> select year(current_time) as 'Tahun sekarang', 2005 as 'tahun lahir';
```
+----------------+-------------+
| Tahun sekarang | tahun lahir |
+----------------+-------------+
|           2024 |        2005 |
+----------------+-------------+
```
1 row in set (0.001 sec)