

NAMA : YOGI SAPUTRA

NIM : 23241007

Kelas : A

Modul : modul 4 : ORDER BY, FUNGSI AGREGASI, GROUP BY, dan HAVING

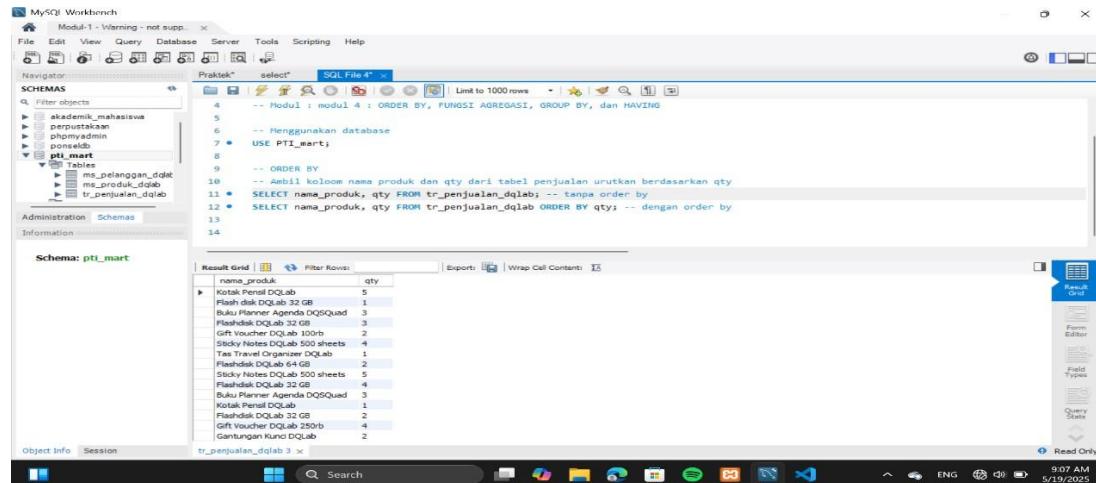
-- Menggunakan database

USE PTI_mart;

-- ORDER BY

-- Ambil kolom nama produk dan qty dari tabel penjualan urutkan berdasarkan qty

SELECT nama_produk, qty FROM tr_penjualan_dqlab; -- tanpa order by



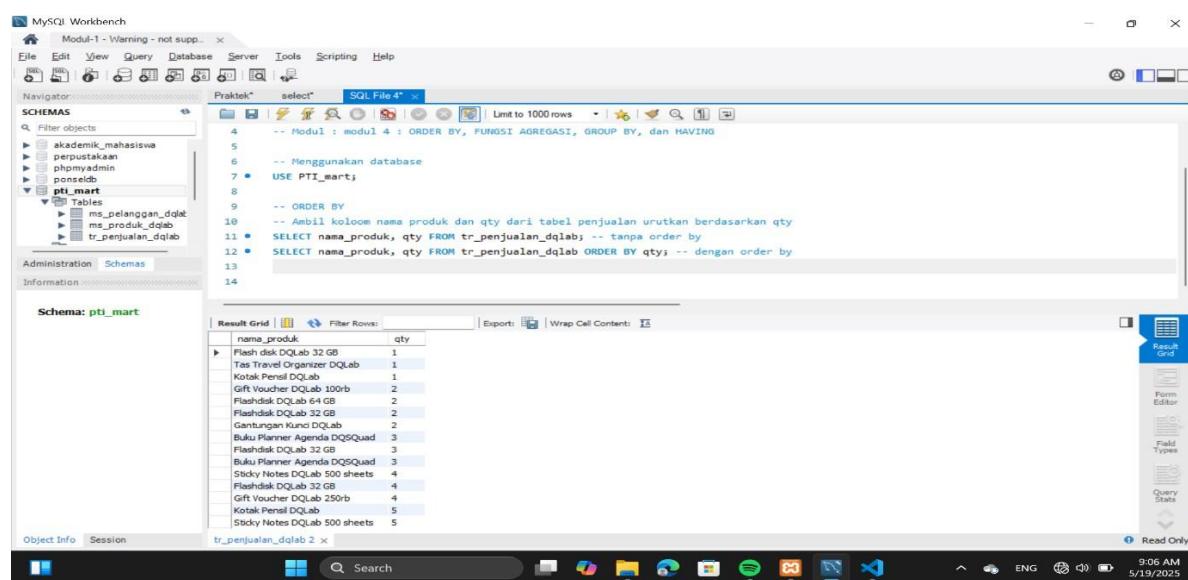
The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the schema **pti_mart** with tables **ms_pelanggan_dqlab**, **ms_produk_dqlab**, and **tr_penjualan_dqlab**.
- SQL Editor:** Contains the following SQL code:

```
4 -- Modul : modul 4 : ORDER BY, FUNGSI AGREGASI, GROUP BY, dan HAVING
5
6 -- Menggunakan database
7 • USE PTI_mart;
8
9 -- ORDER BY
10 -- Ambil kolom nama produk dan qty dari tabel penjualan urutkan berdasarkan qty
11 • SELECT nama_produk, qty FROM tr_penjualan_dqlab; -- tanpa order by
12 • SELECT nama_produk, qty FROM tr_penjualan_dqlab ORDER BY qty; -- dengan order by
13
14
```
- Result Grid:** Displays the results of the query without an ORDER BY clause. The data is as follows:

nama_produk	qty
Kotak Pensil DQLab	5
Flash disk DQLab 32 GB	1
Buku Planner Agenda DQSQuad	3
Flashdisk DQLab 32 GB	3
Gift Voucher DQLab 100rb	2
Sticky Notes DQLab 500 sheets	1
Tas Travel Organizer DQLab	1
Flashdisk DQLab 64 GB	2
Sticky Notes DQLab 500 sheets	5
Flashdisk DQLab 32 GB	4
Buku Planner Agenda DQSQuad	3
Kotak Pensil DQLab	1
Flashdisk DQLab 32 GB	2
Gift Voucher DQLab 250rb	4
Gantungan Kunci DQLab	2

SELECT nama_produk, qty FROM tr_penjualan_dqlab ORDER BY qty; -- dengan order by



The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the schema **pti_mart** with tables **ms_pelanggan_dqlab**, **ms_produk_dqlab**, and **tr_penjualan_dqlab**.
- SQL Editor:** Contains the following SQL code:

```
4 -- Modul : modul 4 : ORDER BY, FUNGSI AGREGASI, GROUP BY, dan HAVING
5
6 -- Menggunakan database
7 • USE PTI_mart;
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9 -- ORDER BY
10 -- Ambil kolom nama produk dan qty dari tabel penjualan urutkan berdasarkan qty
11 • SELECT nama_produk, qty FROM tr_penjualan_dqlab; -- tanpa order by
12 • SELECT nama_produk, qty FROM tr_penjualan_dqlab ORDER BY qty; -- dengan order by
13
14
```
- Result Grid:** Displays the results of the query with an ORDER BY clause. The data is as follows:

nama_produk	qty
Flash disk DQLab 32 GB	1
Tas Travel Organizer DQLab	1
Kotak Pensil DQLab	1
Gift Voucher DQLab 100rb	2
Flashdisk DQLab 64 GB	2
Flashdisk DQLab 32 GB	2
Gantungan Kunci DQLab	2
Buku Planner Agenda DQSQuad	3
Flashdisk DQLab 32 GB	3
Buku Planner Agenda DQSQuad	3
Sticky Notes DQLab 500 sheets	4
Flashdisk DQLab 32 GB	4
Gift Voucher DQLab 250rb	4
Kotak Pensil DQLab	5
Sticky Notes DQLab 500 sheets	5

-- ORDER BY 2 kolom

-- AMbil kolom nama_produk dan qty dari penjualan urutkan qty, nama_produk

```
SELECT nama_produk, qty FROM tr_penjualan_dqlab ORDER BY qty, nama_produk;
```

name_produk	qty
Flash disk DQLab 32 GB	1
Kotak Pensil DQLab	1
Tas Travel Organizer DQLab	1
Flashdisk DQLab 32 GB	2
Flashdisk DQLab 64 GB	2
Gantungan Kunci DQLab	2
Gift Voucher DQLab 100rb	2
Buku Planner Agenda DQSquad	3
Buku Planner Agenda DQSquad	3
Flashdisk DQLab 32 GB	3
Flashdisk DQLab 32 GB	4
Gift Voucher DQLab 250rb	4
Sticky Notes DQLab 500 sheets	4
Kotak Pensil DQLab	5
Sticky Notes DQLab 500 sheets	5

-- latihan mandiri

```
SELECT * FROM tr_penjualan_dqlab ORDER BY qty, tgl_transaksi;
```

kode_urut_transaksi	kode_transaksi	kode_pelanggan	tgl_transaksi	no_urut	kode_produk	nama_produk	qty	harga	diskon_persen
2	tr-001	dqlabcust07	2020-05-01 00:00:00	2	prod-03	Flash disk DQLab 32 GB	1	10000	25
7	tr-002	dqlabcust00	2020-05-01 00:00:00	3	prod-07	Tas Travel Organizer DQLab	1	48000	0
12	tr-005	dqlabcust00	2020-05-12 00:00:00	2	prod-01	Kotak Pensil DQLab	1	62500	5
5	tr-002	dqlabcust00	2020-05-01 00:00:00	1	prod-03	Gift Voucher DQLab 100rb	2	100000	0
8	tr-003	dqlabcust03	2020-05-03 00:00:00	1	prod-02	Flashdisk DQLab 64 GB	2	55000	12.5
13	tr-005	dqlabcust00	2020-05-12 00:00:00	3	prod-04	Flashdisk DQLab 32 GB	2	40000	0
15	tr-006	dqlabcust02	2020-06-19 00:00:00	2	prod-08	Gantungan Kunci DQLab	2	15800	0
3	tr-001	dqlabcust07	2020-05-01 00:00:00	3	prod-09	Buku Planner Agenda DQSquad	3	92000	0
4	tr-001	dqlabcust07	2020-05-01 00:00:00	4	prod-04	Flashdisk DQLab 32 GB	3	40000	0
11	tr-005	dqlabcust00	2020-06-12 00:00:00	1	prod-09	Buku Planner Agenda DQSquad	3	92000	0
6	tr-002	dqlabcust00	2020-05-01 00:00:00	2	prod-10	Sticky Notes DQLab 500 sheets	4	55000	0
10	tr-004	dqlabcust03	2020-05-03 00:00:00	2	prod-04	Flashdisk DQLab 32 GB	4	40000	0
14	tr-006	dqlabcust02	2020-06-19 00:00:00	1	prod-05	Gift Voucher DQLab 250rb	4	250000	0
1	tr-001	dqlabcust07	2020-05-01 00:00:00	1	prod-01	Kotak Pensil DQLab	5	62500	0
9	tr-004	dqlabcust03	2020-05-03 00:00:00	1	prod-10	Sticky Notes DQLab 500 sheets	5	55000	0

```
SELECT * FROM ms_pelanggan_dqlab ORDER BY nama_pelanggan;
```

kode_pelanggan	no_urut	nama_pelanggan	alamat
dglabcust07	7	Agus Cahyono	Vila Gunung Seribu, Blok F4 - No. 8
dglabcust10	10	Djoko Wardoyo, Drs.	Vila Bukit Sagitarius, Blok A1 No. 1
dglabcust01	1	Eva Novianti, S.H.	Vila Sempilan, No. 67 - Kota B
dglabcust02	2	Heidi Goh	Vila Sempilan, No. 11 - Kota B
dglabcust09	9	Ir. Ita Nugraha	Vila Bukit Sagitarius, Gang Kelapa No. 6
dglabcust06	6	Irwan Setianto	Vila Gunung Seribu, Blok O1 - No. 1 - Kota C
dglabcust04	4	Jokolono Sukarman	Vila Permata Intan Berkilau, Blok C5-7
dglabcust08	8	Maria Sirait	Vila Bukit Sagitarius, Gang. Sawit No. 3
dglabcust00	0	Pelanggan Non Member	
dglabcust05	5	Tommy Sinaga	Vila Permata Intan Berkilau, Blok A1/2
dglabcust03	3	Unang Handoko	Vila Sempilan, No. 1 - Kota B

```
SELECT * FROM ms_pelanggan_dqlab ORDER BY alamat;
```

kode_pelanggan	no_urut	nama_pelanggan	alamat
dglabcust00	0	Pelanggan Non Member	Vila Bukit Sagitarius, Blok A1 No. 1
dglabcust10	10	Djoko Wardoyo, Drs.	Vila Gunung Seribu, Blok F4 - No. 8
dglabcust09	9	Ir. Ita Nugraha	Vila Sempilan, No. 67 - Kota B
dglabcust08	8	Maria Sirait	Vila Gunung Seribu, Blok O1 - No. 1 - Kota C
dglabcust07	7	Agus Cahyono	Vila Gunung Seribu, Blok F4 - No. 8
dglabcust06	6	Irwan Setianto	Vila Sempilan, No. 11 - Kota B
dglabcust05	5	Tommy Sinaga	Vila Permata Intan Berkilau, Blok A1/2
dglabcust04	4	Jokolono Sukarman	Vila Sempilan, No. 3 - Kota B
dglabcust03	3	Unang Handoko	Vila Sempilan, No. 1 - Kota B
dglabcust02	2	Heidi Goh	Vila Gunung Seribu, Blok F4 - No. 8
dglabcust01	1	Eva Novianti, S.H.	Vila Gunung Seribu, Blok F4 - No. 8

-- ORDER BY ASC dan DESC

-- kolom nama produk dan qty dari tabel penjualan urutkan qty terbesar

```
SELECT nama_produk, qty FROM tr_penjualan_dqlab ORDER BY qty DESC;
```

The screenshot shows the MySQL Workbench interface with a query editor window titled 'Praktek' containing the following SQL code:

```
21 • SELECT * FROM ms_pelanggan_dqlab ORDER BY alamat;
22
23 -- ORDER BY ASC dan DESC
24 -- kolom nama produk dan qty dari tabel penjualan urutkan qty terbesar
25 • SELECT nama_produk, qty FROM tr_penjualan_dqlab ORDER BY qty DESC;
26
27 -- ambil kolom nama produk dan qty dari penjualan urutkan qty dan nama produk A-Z
28 • SELECT nama_produk, qty FROM tr_penjualan_dqlab ORDER BY qty DESC, nama_produk DESC;
29
30 -- Tugas Mandiri
```

The 'Result Grid' pane displays the results of the query:

nama_produk	qty
Kotak Pensil DQLab	5
Sticky Notes DQLab 500 sheets	5
Sticky Notes DQLab 500 sheets	4
Flashdisk DQLab 32 GB	4
Gift Voucher DQLab 250rb	4
Buku Planner Agenda DQSQuad	3
Flashdisk DQLab 32 GB	3
Buku Planner Agenda DQSQuad	3
Gift Voucher DQLab 100rb	2
Flashdisk DQLab 64 GB	2
Flashdisk DQLab 32 GB	2
Gantungan Kunci DQLab	2
Flash disk DQLab 32 GB	1
Tas Travel Organizer DQLab	1
Kotak Pensil DQLab	1

-- ambil kolom nama produk dan qty dari penjualan urutkan qty dan nama produk A-Z

```
SELECT nama_produk, qty FROM tr_penjualan_dqlab ORDER BY qty DESC, nama_produk DESC;
```

The screenshot shows the MySQL Workbench interface with a query editor window titled 'Praktek' containing the following SQL code:

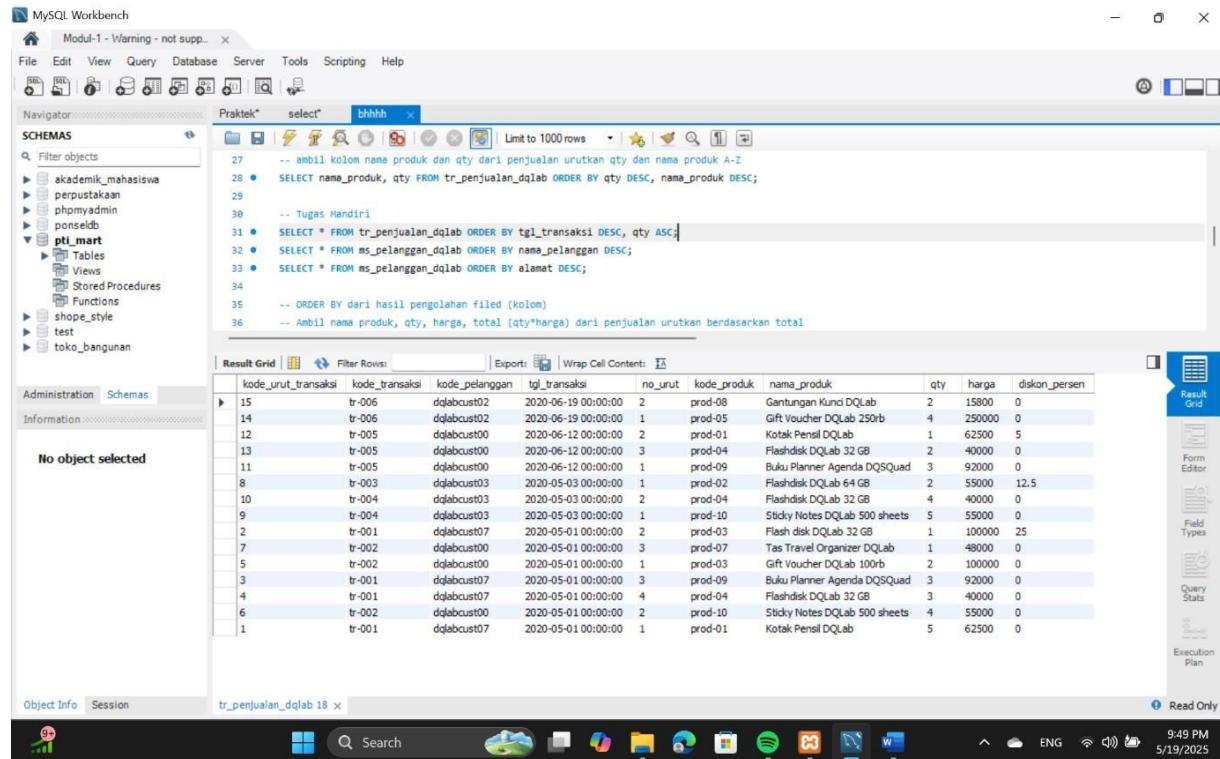
```
21 • SELECT * FROM ms_pelanggan_dqlab ORDER BY alamat;
22
23 -- ORDER BY ASC dan DESC
24 -- kolom nama produk dan qty dari tabel penjualan urutkan qty terbesar
25 • SELECT nama_produk, qty FROM tr_penjualan_dqlab ORDER BY qty DESC;
26
27 -- ambil kolom nama produk dan qty dari penjualan urutkan qty dan nama produk A-Z
28 • SELECT nama_produk, qty FROM tr_penjualan_dqlab ORDER BY qty DESC, nama_produk DESC;
29
30 -- Tugas Mandiri
```

The 'Result Grid' pane displays the results of the query:

nama_produk	qty
Sticky Notes DQLab 500 sheets	5
Kotak Pensil DQLab	5
Sticky Notes DQLab 500 sheets	4
Gift Voucher DQLab 250rb	4
Flashdisk DQLab 32 GB	4
Flashdisk DQLab 32 GB	3
Buku Planner Agenda DQSQuad	3
Buku Planner Agenda DQSQuad	3
Gift Voucher DQLab 100rb	2
Gantungan Kunci DQLab	2
Flashdisk DQLab 64 GB	2
Flashdisk DQLab 32 GB	2
Tas Travel Organizer DQLab	1
Kotak Pensil DQLab	1
Flash disk DQLab 32 GB	1

-- Tugas Mandiri

SELECT * FROM tr_penjualan_dqlab ORDER BY tgl_transaksi DESC, qty ASC;



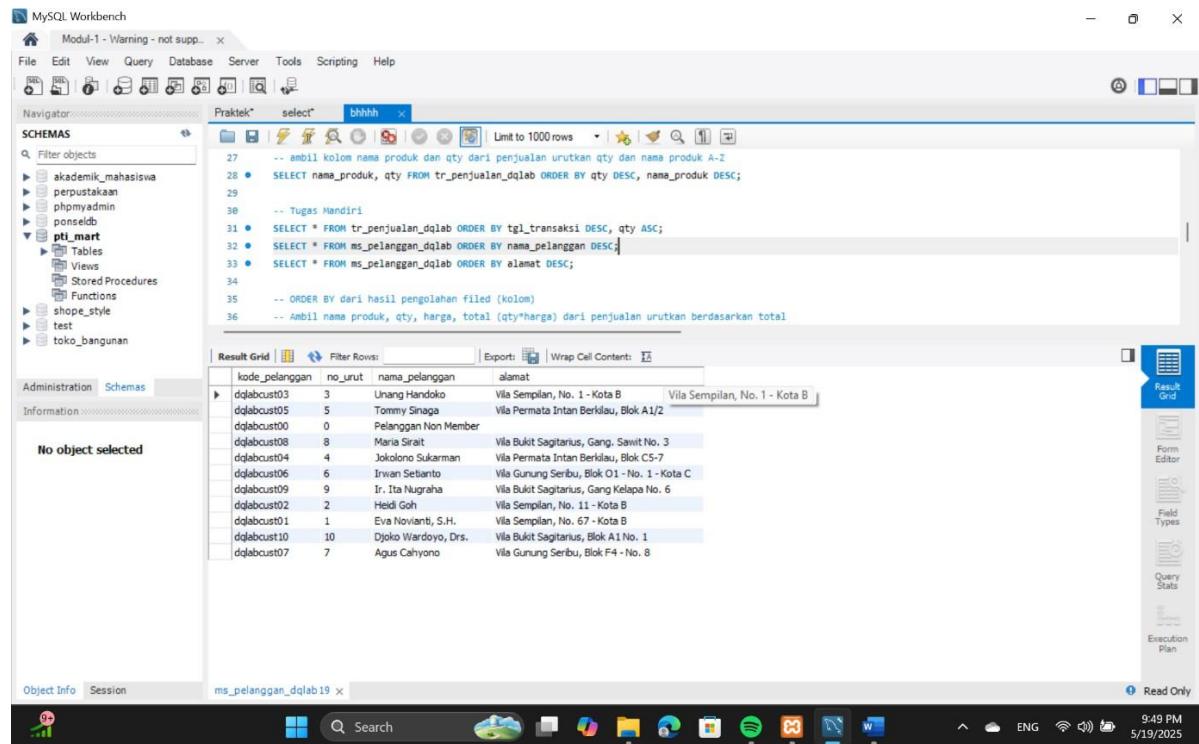
The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the database schema with tables like akademik_mahasiswa, perpusatakaan, phmyadmin, ponselid, and ptimart.
- Query Editor:** Contains the SQL query:

```
27 -- ambil kolom name produk dan qty dari penjualan urutkan qty dan nama produk A-Z
28 • SELECT nama_produk, qty FROM tr_penjualan_dqlab ORDER BY qty DESC, nama_produk DESC;
29
30 -- Tugas Mandiri
31 • SELECT * FROM tr_penjualan_dqlab ORDER BY tgl_transaksi DESC, qty ASC;
32 • SELECT * FROM ms_pelanggan_dqlab ORDER BY nama_pelanggan DESC;
33 • SELECT * FROM ms_pelanggan_dqlab ORDER BY alamat DESC;
34
35 -- ORDER BY dari hasil pengolahan filed (kolom)
-- Ambil name produk, qty, harga, total (qty*harga) dari penjualan urutkan berdasarkan total
```
- Result Grid:** Displays the results of the query:

kode_urut_transaksi	kode_transaksi	kode_pelanggan	tgl_transaksi	no_urut	kode_produk	nama_produk	qty	harga	diskon_persen
15	tr-006	dqlabcust02	2020-06-19 00:00:00	2	prod-08	Gantungan Kund DQLab	2	15800	0
14	tr-006	dqlabcust02	2020-06-19 00:00:00	1	prod-05	Gift Voucher DQLab 250rb	4	250000	0
12	tr-005	dqlabcust00	2020-06-12 00:00:00	2	prod-01	Kotak Pensil DQLab	1	62500	5
13	tr-005	dqlabcust00	2020-06-12 00:00:00	3	prod-04	Flashdisk DQLab 32 GB	2	40000	0
11	tr-005	dqlabcust00	2020-06-12 00:00:00	1	prod-09	Buku Planner Agenda DQSquad	3	92000	0
8	tr-003	dqlabcust03	2020-05-03 00:00:00	1	prod-02	Flashdisk DQLab 64 GB	2	55000	12.5
10	tr-004	dqlabcust03	2020-05-03 00:00:00	2	prod-04	Flashdisk DQLab 32 GB	4	40000	0
9	tr-004	dqlabcust03	2020-05-03 00:00:00	1	prod-10	Sticky Notes DQLab 500 sheets	5	55000	0
2	tr-001	dqlabcust07	2020-05-01 00:00:00	2	prod-03	Flash disk DQLab 32 GB	1	100000	25
7	tr-002	dqlabcust00	2020-05-01 00:00:00	3	prod-07	Tas Travel Organizer DQLab	1	48000	0
5	tr-002	dqlabcust00	2020-05-01 00:00:00	1	prod-03	Gift Voucher DQLab 100rb	2	100000	0
3	tr-001	dqlabcust07	2020-05-01 00:00:00	3	prod-09	Buku Planner Agenda DQSquad	3	92000	0
4	tr-001	dqlabcust07	2020-05-01 00:00:00	4	prod-04	Flashdisk DQLab 32 GB	3	40000	0
6	tr-002	dqlabcust00	2020-05-01 00:00:00	2	prod-10	Sticky Notes DQLab 500 sheets	4	55000	0
1	tr-001	dqlabcust07	2020-05-01 00:00:00	1	prod-01	Kotak Pensil DQLab	5	62500	0
- Object Info:** Shows the session information.
- Session:** Shows the query being run: `tr_penjualan_dqlab 18`.
- System Bar:** Shows the date and time: 9:49 PM 5/19/2025.

SELECT * FROM ms_pelanggan_dqlab ORDER BY nama_pelanggan DESC;



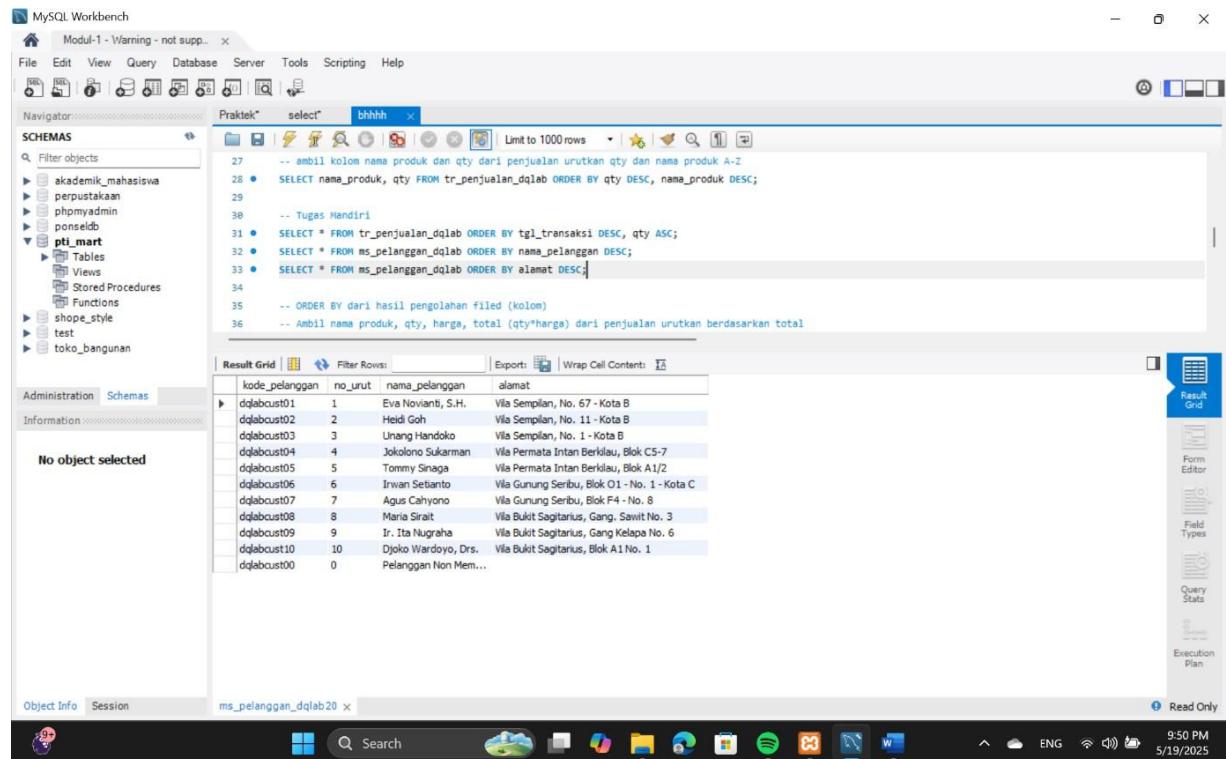
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- Navigator:** Shows the database schema with tables like akademik_mahasiswa, perpusatakaan, phmyadmin, ponselid, and ptimart.
- Query Editor:** Contains the SQL query:

```
27 -- ambil kolom name produk dan qty dari penjualan urutkan qty dan nama produk A-Z
28 • SELECT nama_produk, qty FROM tr_penjualan_dqlab ORDER BY qty DESC, nama_produk DESC;
29
30 -- Tugas Mandiri
31 • SELECT * FROM tr_penjualan_dqlab ORDER BY tgl_transaksi DESC, qty ASC;
32 • SELECT * FROM ms_pelanggan_dqlab ORDER BY nama_pelanggan DESC;
33 • SELECT * FROM ms_pelanggan_dqlab ORDER BY alamat DESC;
34
35 -- ORDER BY dari hasil pengolahan filed (kolom)
-- Ambil name produk, qty, harga, total (qty*harga) dari penjualan urutkan berdasarkan total
```
- Result Grid:** Displays the results of the query:

kode_pelanggan	no_urut	nama_pelanggan	alamat
dqlabcust03	3	Unang Handoko	Vila Sempilan, No. 1 - Kota B
dqlabcust05	5	Tommy Singga	Vila Sempilan, No. 1 - Kota B
dqlabcust00	0	Pelanggan Non Member	Vila Permai Intan Berkilau, Blok A1/2
dqlabcust08	8	Maria Srat	Vila Bukit Sagitarus, Gang. Sawit No. 3
dqlabcust04	4	Jokolono Sukarman	Vila Permai Intan Berkilau, Blok C5-7
dqlabcust06	6	Irvan Sebianto	Vila Gunung Seribu, Blok O1 - No. 1 - Kota C
dqlabcust09	9	Ir. Ita Nugraha	Vila Bukit Sagitarus, Gang Kelapa No. 6
dqlabcust02	2	Heidi Goh	Vila Sempilan, No. 11 - Kota B
dqlabcust01	1	Eva Novianti, S.H.	Vila Sempilan, No. 67 - Kota B
dqlabcust10	10	Djoko Wardoyo, Drs.	Vila Bukit Sagitarus, Blok A1 No. 1
dqlabcust07	7	Agus Cahyono	Vila Gunung Seribu, Blok F4 - No. 8
- Object Info:** Shows the session information.
- Session:** Shows the query being run: `ms_pelanggan_dqlab 19`.
- System Bar:** Shows the date and time: 9:49 PM 5/19/2025.

```
SELECT * FROM ms_pelanggan_dqlab ORDER BY alamat DESC;
```



The screenshot shows the MySQL Workbench interface with the following details:

- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Navigator:** Schemas (akademik_mahasiswa, perpusatakan, phpmyadmin, ponselid, pti_mart, Tables, Views, Stored Procedures, Functions, shope_style, test, toko_bangunan).
- Query Editor:** The query entered is:

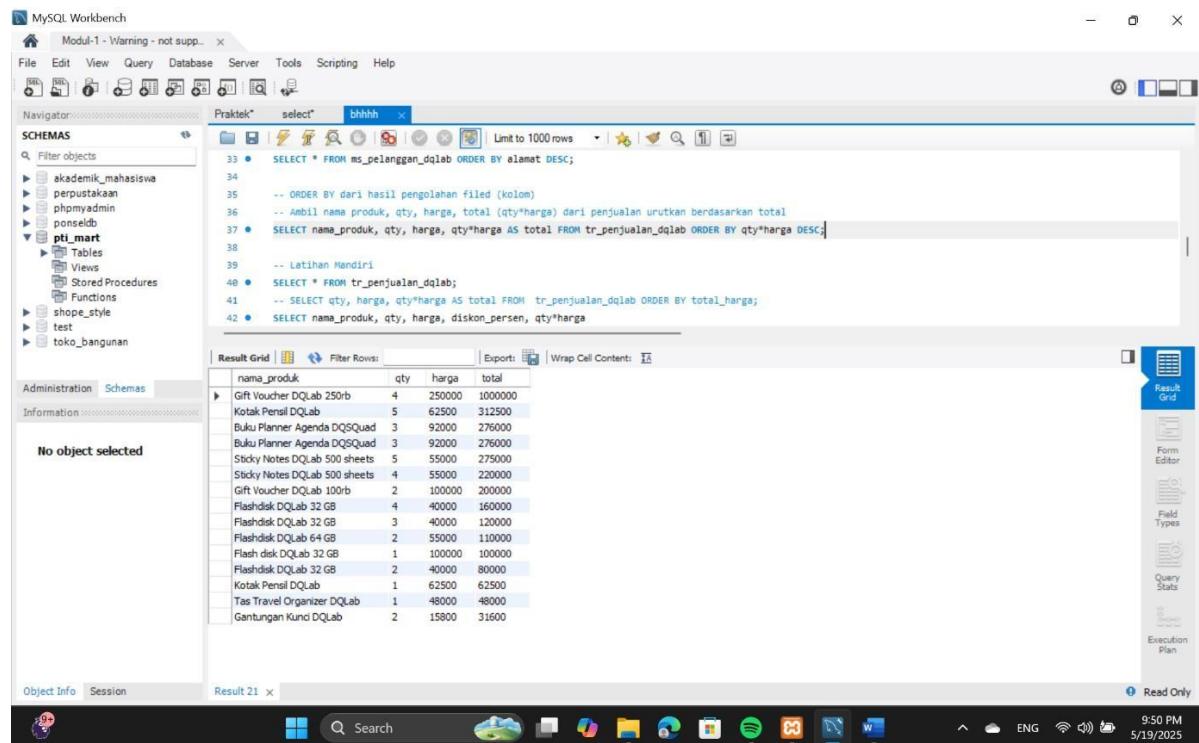
```
-- ambil kolom nama produk dan qty dari penjualan urutkan qty dan nama produk A-Z
28 • SELECT nama_produk, qty FROM tr_penjualan_dqlab ORDER BY qty DESC, nama_produk DESC;
29
30 -- Tugas Mandiri
31 • SELECT * FROM tr_penjualan_dqlab ORDER BY tgl_transaksi DESC, qty ASC;
32 • SELECT * FROM ms_pelanggan_dqlab ORDER BY nama_pelanggan DESC;
33 • SELECT * FROM ms_pelanggan_dqlab ORDER BY alamat DESC;
34
35 -- ORDER BY dari hasil pengolahan filed (kolom)
36 -- Ambil nama produk, qty, harga, total (qty*harga) dari penjualan urutkan berdasarkan total
```
- Result Grid:** Shows the results of the query, listing 10 rows of customer information with columns: kode_pelanggan, no_urut, nama_pelanggan, and alamat. The results are:

kode_pelanggan	no_urut	nama_pelanggan	alamat
dqlabcust01	1	Eva Novianti, S.H.	Vila Sempilan, No. 67 - Kota B
dqlabcust02	2	Heidi Goh	Vila Sempilan, No. 11 - Kota B
dqlabcust03	3	Uhang Handoko	Vila Sempilan, No. 1 - Kota B
dqlabcust04	4	Jokolono Sukarman	Vila Permati Intan Berkilau, Blok C5-7
dqlabcust05	5	Tommy Sinaga	Vila Permati Intan Berkilau, Blok A1/2
dqlabcust06	6	Irwan Setianto	Vila Gunung Seribu, Blok O1 - No. 1 - Kota C
dqlabcust07	7	Agus Cahyono	Vila Gunung Seribu, Blok F4 - No. 8
dqlabcust08	8	Maria Sirait	Vila Bukit Sagitarus, Gang. Sawit No. 3
dqlabcust09	9	Ir. Ita Nugraha	Vila Bukit Sagitarus, Gang Kelapa No. 6
dqlabcust10	10	Djoko Wardoyo, Drs.	Vila Bukit Sagitarus, Blok A1 No. 1
dqlabcust00	0	Pelanggan Non Mem...	
- Bottom Status Bar:** Object Info, Session, ms_pelanggan_dqlab20, Read Only, 9:50 PM, 5/19/2025.

-- ORDER BY dari hasil pengolahan filed (kolom)

-- Ambil nama produk, qty, harga, total (qty*harga) dari penjualan urutkan berdasarkan total

```
SELECT nama_produk, qty, harga, qty*harga AS total FROM tr_penjualan_dqlab ORDER BY qty*harga DESC;
```



The screenshot shows the MySQL Workbench interface with the following details:

- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Navigator:** Schemas (akademik_mahasiswa, perpusatakan, phpmyadmin, ponselid, pti_mart, Tables, Views, Stored Procedures, Functions, shope_style, test, toko_bangunan).
- Query Editor:** The query entered is:

```
33 • SELECT * FROM ms_pelanggan_dqlab ORDER BY alamat DESC;
34
35 -- ORDER BY dari hasil pengolahan filed (kolom)
36 -- Ambil nama produk, qty, harga, total (qty*harga) dari penjualan urutkan berdasarkan total
37 • SELECT nama_produk, qty, harga, qty*harga AS total FROM tr_penjualan_dqlab ORDER BY qty*harga DESC;
38
39 -- Letihan Mandiri
40 • SELECT * FROM tr_penjualan_dqlab;
41 -- SELECT qty, harga, qty*harga AS total FROM tr_penjualan_dqlab ORDER BY total_harga;
42 • SELECT nama_produk, qty, harga, diskon_persen, qty*harga
```
- Result Grid:** Shows the results of the query, listing 15 items of stationery with columns: nama_produk, qty, harga, and total. The results are:

nama_produk	qty	harga	total
Gift Voucher DQLab 250rb	4	250000	1000000
Kotak Pensil DQLab	5	62500	312500
Buku Planner Agenda DQSQuad	3	92000	276000
Buku Planner Agenda DQSQuad	3	92000	276000
Sticky Notes DQLab 500 sheets	5	55000	275000
Sticky Notes DQLab 500 sheets	4	55000	220000
Gift Voucher DQLab 100rb	2	100000	200000
Flashdisk DQLab 32 GB	4	40000	160000
Flashdisk DQLab 32 GB	3	40000	120000
Flashdisk DQLab 64 GB	2	55000	110000
Flash disk DQLab 32 GB	1	100000	100000
Flashdisk DQLab 32 GB	2	40000	80000
Kotak Pensil DQLab	1	62500	62500
Tas Travel Organizer DQLab	1	48000	48000
Gantungan Kunci DQLab	2	15800	31600
- Bottom Status Bar:** Object Info, Session, Result 21, Read Only, 9:50 PM, 5/19/2025.

-- Latihan Mandiri

```
SELECT nama_produk, qty, harga, diskon_persen, (qty*harga) - (qty * harga * ( diskon_persen / 100 )) AS total_harga_setelah_diskon
```

```
FROM tr_penjualan_dqlab ORDER BY total_harga_setelah_diskon DESC;
```

The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the database schema with tables like akademik_mahasiswa, perpustakaan, phpyadmin, ponselidb, and ptimart.
- Query Editor:** Contains the SQL query:

```
33 • SELECT * FROM ms_pelanggan_dqlab ORDER BY alamat DESC;
34
35 -- ORDER BY dari hasil pengolahan field (kolom)
36 -- Ambil nama produk, qty, harga, total (qty*harga) dari penjualan urutkan berdasarkan total
37 • SELECT nama_produk, qty, harga, qty*harga AS total FROM tr_penjualan_dqlab ORDER BY qty*harga DESC;
38
39 -- Latihan Mandiri
40 • SELECT nama_produk, qty, harga, diskon_persen, (qty*harga) - (qty * harga * ( diskon_persen / 100 )) AS total_harga_setelah_diskon
41 FROM tr_penjualan_dqlab ORDER BY total_harga_setelah_diskon DESC;
42
```
- Result Grid:** Displays the query results in a table format:

name_produk	qty	harga	diskon_persen	total_harga_setelah_diskon
Gift Voucher DQLab 250rb	4	250000	0	1000000
Kotak Pensil DQLab	5	62500	0	312500
Buku Planner Agenda DQSQuad	3	92000	0	276000
Buku Planner Agenda DQSQuad	3	92000	0	276000
Sticky Notes DQLab 500 sheets	5	55000	0	275000
Sticky Notes DQLab 500 sheets	4	55000	0	220000
Gift Voucher DQLab 100rb	2	100000	0	200000
Flashdisk DQLab 32 GB	4	40000	0	160000
Flashdisk DQLab 32 GB	3	40000	0	120000
Flashdisk DQLab 64 GB	2	55000	12.5	96250
Flashdisk DQLab 32 GB	2	40000	0	80000
Flash disk DQLab 32 GB	1	100000	25	75000
Kotak Pensil DQLab	1	62500	5	59375
Tas Travel Organizer DQLab	1	48000	0	48000
Gantungan Kund DQLab	2	15800	0	31600

-- ORDER BY dengan WHERE

-- ambil nama produk, qty, dari penjualan filter berdasarkan nama produk berawalan F, urutkan qty desc

```
SELECT nama_produk, qty FROM tr_penjualan_dqlab WHERE nama_produk LIKE 'F%' ORDER BY qty DESC;
```

The screenshot shows the MySQL Workbench interface with the following details:

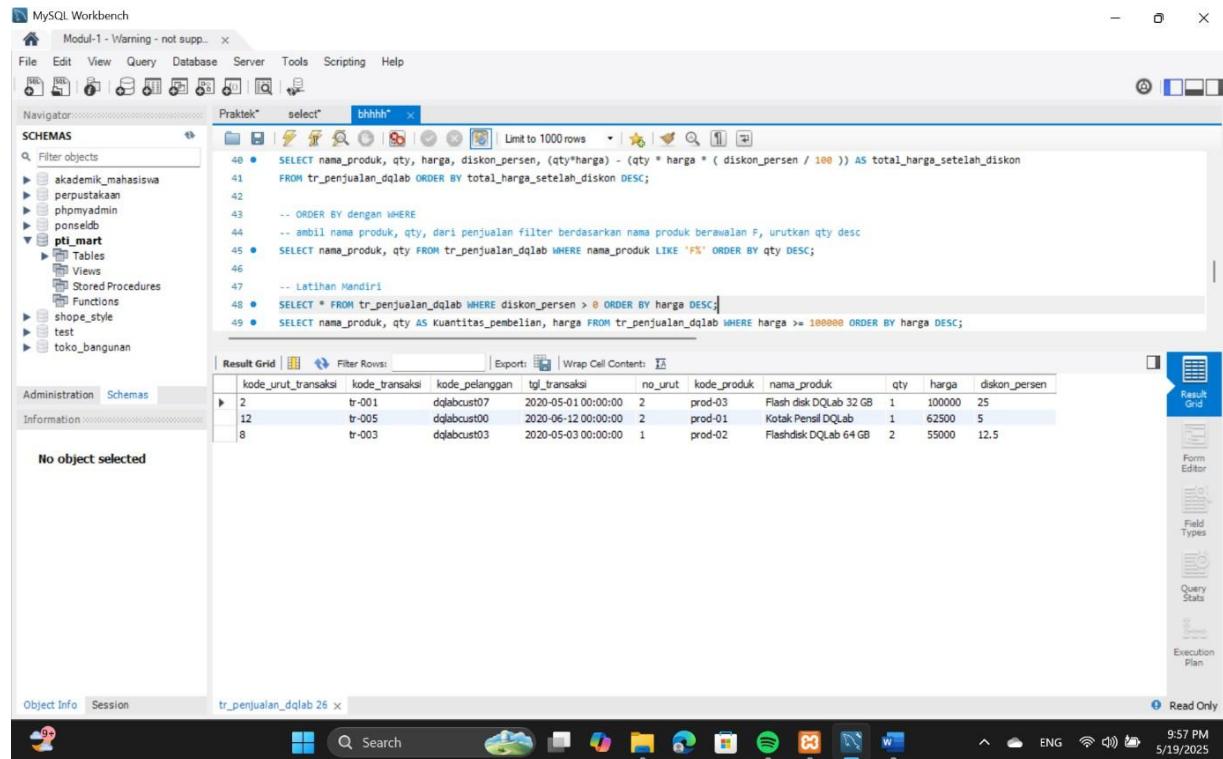
- Navigator:** Shows the database schema with tables like akademik_mahasiswa, perpustakaan, phpyadmin, ponselidb, and ptimart.
- Query Editor:** Contains the SQL query:

```
37 • SELECT nama_produk, qty, harga, qty*harga AS total FROM tr_penjualan_dqlab ORDER BY qty*harga DESC;
38
39 -- Latihan Mandiri
40 • SELECT nama_produk, qty, harga, diskon_persen, (qty*harga) - (qty * harga * ( diskon_persen / 100 )) AS total_harga_setelah_diskon
41 FROM tr_penjualan_dqlab ORDER BY total_harga_setelah_diskon DESC;
42
43 -- ORDER BY dengan WHERE
44 -- ambil nama produk, qty, dari penjualan filter berdasarkan nama produk berawalan F, urutkan qty desc
45 • SELECT nama_produk, qty FROM tr_penjualan_dqlab WHERE nama_produk LIKE 'F%' ORDER BY qty DESC;
46
```
- Result Grid:** Displays the query results in a table format:

nama_produk	qty
Flashdisk DQLab 32 GB	4
Flashdisk DQLab 32 GB	3
Flashdisk DQLab 64 GB	2
Flashdisk DQLab 32 GB	2
Flash disk DQLab 32 GB	1

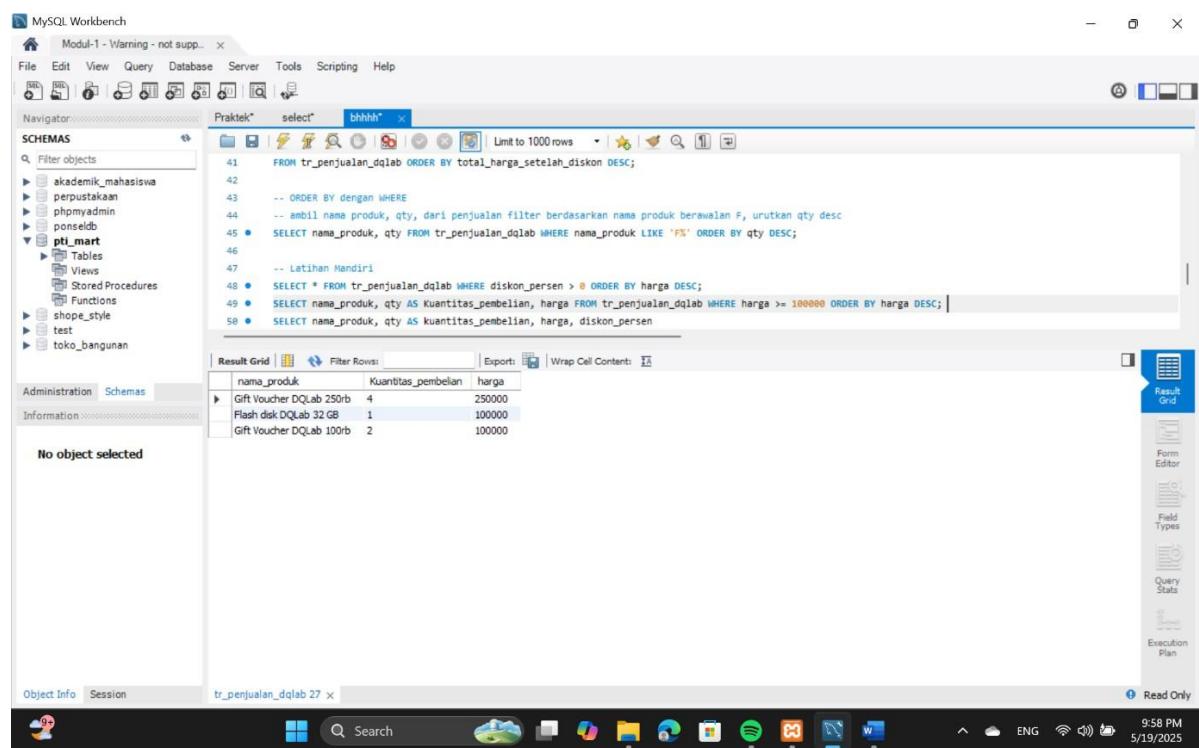
-- Latihan Mandiri

SELECT * FROM tr_penjualan_dqlab WHERE diskon_persen > 0 ORDER BY harga DESC;



kode_urut_transaksi	kode_transaksi	kode_pelanggan	tgl_transaksi	no_urut	kode_produk	nama_produk	qty	harga	diskon_persen
2	tr-001	dqlabcust07	2020-05-01 00:00:00	2	prod-03	Flash disk DQLab 32 GB	1	100000	25
12	tr-005	dqlabcust00	2020-06-12 00:00:00	2	prod-01	Kotak Pensil DQLab	1	62500	5
8	tr-003	dqlabcust03	2020-05-03 00:00:00	1	prod-02	Flashdisk DQLab 64 GB	2	55000	12.5

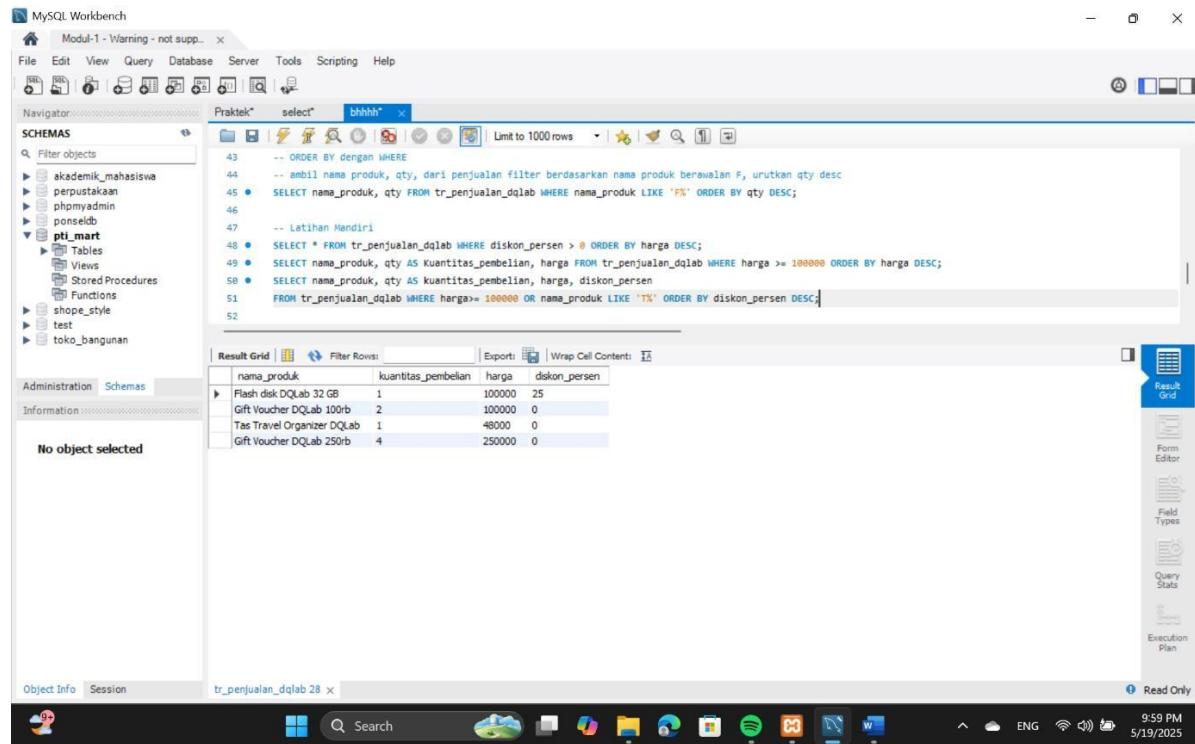
SELECT nama_produk, qty AS Kuantitas_pembelian, harga FROM tr_penjualan_dqlab WHERE harga >= 100000 ORDER BY harga DESC;



nama_produk	Kuantitas_pembelian	harga
Gift Voucher DQLab 250rb	4	250000
Flash disk DQLab 32 GB	1	100000
Gift Voucher DQLab 100rb	2	100000

```
SELECT nama_produk, qty AS kuantitas_pembelian, harga, diskon_persen
```

```
FROM tr_penjualan_dqlab WHERE harga >= 100000 OR nama_produk LIKE 'T%' ORDER BY diskon_persen DESC;
```



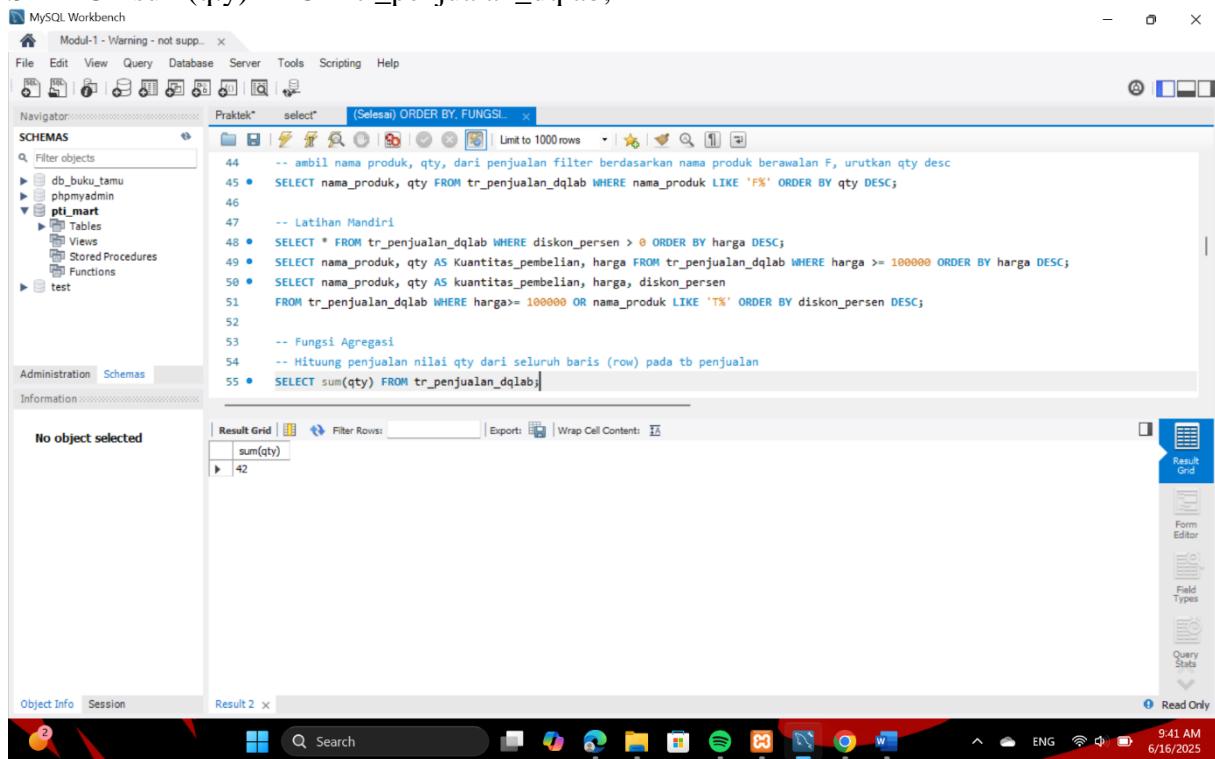
```
-- ORDER BY dengan WHERE
-- ambil nama produk, qty, dari penjualan filter berdasarkan nama produk berawalan F, urutkan qty desc
SELECT nama_produk, qty FROM tr_penjualan_dqlab WHERE nama_produk LIKE 'F%' ORDER BY qty DESC;

-- Latihan Mandiri
SELECT * FROM tr_penjualan_dqlab WHERE diskon_persen > 0 ORDER BY harga DESC;
SELECT nama_produk, qty AS Kuantitas_pembelian, harga FROM tr_penjualan_dqlab WHERE harga >= 100000 ORDER BY harga DESC;
SELECT nama_produk, qty AS Kuantitas_pembelian, harga, diskon_persen
FROM tr_penjualan_dqlab WHERE harga >= 100000 OR nama_produk LIKE 'T%' ORDER BY diskon_persen DESC;
```

nama_produk	kuantitas_pembelian	harga	diskon_persen
Flash disk DQLab 32 GB	1	100000	25
Gift Voucher DQLab 100rb	2	100000	0
Tas Travel Organizer DQLab	1	48000	0
Gift Voucher DQLab 250rb	4	250000	0

-- Fungsi Agregasi

-- Hitungan penjualan nilai qty dari seluruh baris (row) pada tb penjualan
SELECT sum(qty) FROM tr_penjualan_dqlab;



```
-- ambil nama produk, qty, dari penjualan filter berdasarkan nama produk berawalan F, urutkan qty desc
SELECT nama_produk, qty FROM tr_penjualan_dqlab WHERE nama_produk LIKE 'F%' ORDER BY qty DESC;

-- Latihan Mandiri
SELECT * FROM tr_penjualan_dqlab WHERE diskon_persen > 0 ORDER BY harga DESC;
SELECT nama_produk, qty AS Kuantitas_pembelian, harga FROM tr_penjualan_dqlab WHERE harga >= 100000 ORDER BY harga DESC;
SELECT nama_produk, qty AS Kuantitas_pembelian, harga, diskon_persen
FROM tr_penjualan_dqlab WHERE harga >= 100000 OR nama_produk LIKE 'T%' ORDER BY diskon_persen DESC;

-- Fungsi Agregasi
-- Hitungan penjualan nilai qty dari seluruh baris (row) pada tb penjualan
SELECT sum(qty) FROM tr_penjualan_dqlab;
```

sum(qty)
42

```
SELECT qty FROM tr_penjualan_dqlab;
```

The screenshot shows the MySQL Workbench interface. The query editor window contains the following SQL code:

```
50 • SELECT nama_produk, qty AS kuantitas_pembelian, harga, diskon_persen
51   FROM tr_penjualan_dqlab WHERE harga >= 100000 OR nama_produk LIKE 'T%' ORDER BY diskon_persen DESC;
52
53 -- Fungsi Agregasi
54 -- Hitung penjualan nilai qty dari seluruh baris (row) pada tb penjualan
55 • SELECT sum(qty) FROM tr_penjualan_dqlab;
56 • SELECT qty FROM tr_penjualan_dqlab;
57
58 -- Hitung jumlah seluruh transaksi yang telah terjadi pada tb penjualan
59 • SELECT COUNT(*) FROM tr_penjualan_dqlab;
60 • SELECT * FROM tr_penjualan_dqlab;
61
```

The result grid shows the following data:

qty
5
1
3
3
2
4
1
2
5
4
3
1
2
4
1

-- Hitung jumlah seluruh transaksi yang telah terjadi pada tb penjualan

```
SELECT COUNT(*) FROM tr_penjualan_dqlab;
```

The screenshot shows the MySQL Workbench interface. The query editor window contains the following SQL code:

```
56 • SELECT qty FROM tr_penjualan_dqlab;
57
58 -- Hitung jumlah seluruh transaksi yang telah terjadi pada tb penjualan
59 • SELECT COUNT(*) FROM tr_penjualan_dqlab;
60 • SELECT * FROM tr_penjualan_dqlab;
61
62 -- Hitung jumlah nilai qty dan jumlah transaksi pada tb penjualan
63 • SELECT SUM(qty), COUNT(*) FROM tr_penjualan_dqlab;
64
65 -- Hitung jumlah nilai rata-rata dari qty dan nilai
66 • SELECT AVG(qty), MIN(qty), MAX(qty)
67   FROM tr_penjualan_dqlab;
```

The result grid shows the following data:

COUNT(*)
15

```
SELECT * FROM tr_penjualan_dqlab;
```

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Praktek* select* (Selesai) ORDER BY, FUNGSI... ×

```

SCHEMAS
Filter objects
db_buku_tamu
phpmyadmin
pti_mart
Tables
Views
Stored Procedures
Functions
test

Administration Schemas Information
No object selected

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ⓘ
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67
kode_urut_transaksi kode_transaksi kode_pelanggan tgl_transaksi no_urut kode_produk nama_produk qty harga diskon_persen
1 tr-001 dqlabcust07 2020-05-01 00:00:00 1 prod-01 Kotak Pensil DQLab 5 62500 0
2 tr-001 dqlabcust07 2020-05-01 00:00:00 2 prod-03 Flash disk DQLab 32 GB 1 100000 25
3 tr-001 dqlabcust07 2020-05-01 00:00:00 3 prod-09 Buku Planner Agenda DQSQuad 3 92000 0
4 tr-001 dqlabcust07 2020-05-01 00:00:00 4 prod-04 Flashdisk DQLab 32 GB 3 40000 0
5 tr-002 dqlabcust00 2020-05-01 00:00:00 1 prod-03 Gift Voucher DQLab 10rb 2 100000 0
6 tr-002 dqlabcust00 2020-05-01 00:00:00 2 prod-10 Sticky Notes DQLab 500 sheets 4 55000 0
7 tr-002 dqlabcust00 2020-05-01 00:00:00 3 prod-07 Tas Travel Organizer DQLab 1 48000 0
8 tr-003 dqlabcust03 2020-05-03 00:00:00 1 prod-02 Flashdisk DQLab 64 GB 2 55000 12.5
9 tr-004 dqlabcust03 2020-05-03 00:00:00 1 prod-10 Sticky Notes DQLab 500 sheets 5 55000 0
10 tr-004 dqlabcust03 2020-05-03 00:00:00 2 prod-04 Flashdisk DQLab 32 GB 4 40000 0
11 tr-005 dqlabcust00 2020-06-12 00:00:00 1 prod-09 Buku Planner Agenda DQSQuad 3 92000 0
12 tr-005 dqlabcust00 2020-06-12 00:00:00 2 prod-01 Kotak Pensil DQLab 1 62500 5
13 tr-005 dqlabcust00 2020-06-12 00:00:00 3 prod-04 Flashdisk DQLab 32 GB 2 40000 0
14 tr-006 dqlabcust02 2020-06-19 00:00:00 1 prod-05 Gift Voucher DQLab 250rb 4 250000 0
15 tr-006 dqlabcust02 2020-06-19 00:00:00 2 prod-11 Gantungan Kunci DQLab 7 10000 0

```

Object Info Session tr_penjualan_dqlab 5 × Result Grid | Filter Rows: | Export: | Wrap Cell Content: ⓘ

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ⓘ

Result Grid Form Editor Field Types Query Stats

Read Only

9:43 AM 6/16/2025

-- Hitung jumlah nilai qty dan jumlah transaksi pada tb penjualan
SELECT SUM(qty), COUNT(*) FROM tr_penjualan_dqlab;

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Praktek* select* (Selesai) ORDER BY, FUNGSI... ×

```

SCHEMAS
Filter objects
db_buku_tamu
phpmyadmin
pti_mart
Tables
Views
Stored Procedures
Functions
test

Administration Schemas Information
No object selected

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ⓘ
SUM(qty) COUNT(*)
42 15

```

Object Info Session Result 6 × Result Grid | Filter Rows: | Export: | Wrap Cell Content: ⓘ

Result Grid Form Editor Field Types Query Stats

Read Only

9:44 AM 6/16/2025

-- Hitung jumlah nilai rata-rata dari qty dan nilai
SELECT AVG(qty), MIN(qty), MAX(qty)
FROM tr_penjualan_dqlab;

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Praktek* select* (Selesai) ORDER BY, FUNGSI... x

SCHEMAS

Filter objects

- db_buku_tamu
- phpmyadmin
- pti_mart**
 - Tables
 - Views
 - Stored Procedures
 - Functions
- test

Administration Schemas Information

No object selected

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types Query Stats

	Avg(qty)	Min(qty)	Max(qty)
	2.8000	1	5

Object Info Session Result 7 x

9:44 AM 6/16/2025

```
-- Hitung jumlah nilai qty dan jumlah transaksi pada tb penjualan
SELECT SUM(qty), COUNT(*) FROM tr_penjualan_dqlab;

-- Hitung jumlah nilai rata-rata dari qty dan nilai
SELECT AVG(qty), MIN(qty), MAX(qty)
FROM tr_penjualan_dqlab;

-- COUNT(DISTINCT)
-- Tanpa count (distinct)
SELECT COUNT(nama_produk) FROM tr_penjualan_dqlab;
-- Pakai count(distinct) hanya nilai yang unik saja
SELECT COUNT (distinct nama_produk) FROM tr_penjualan_dqlab;
```

-- COUNT(DISTINCT)
-- Tanpa count (distinct)
SELECT COUNT(nama_produk) FROM tr_penjualan_dqlab;

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Praktek* select* (Selesai) ORDER BY, FUNGSI... x

SCHEMAS

Filter objects

- db_buku_tamu
- phpmyadmin
- pti_mart**
 - Tables
 - Views
 - Stored Procedures
 - Functions
- test

Administration Schemas Information

No object selected

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types Query Stats

COUNT(nama_produk)
15

Object Info Session Result 8 x

9:45 AM 6/16/2025

```
-- COUNT(DISTINCT)
-- Tanpa count (distinct)
SELECT COUNT(nama_produk) FROM tr_penjualan_dqlab;
-- Pakai count(distinct) hanya nilai yang unik saja
SELECT COUNT (nama_produk),count(distinct nama_produk) FROM tr_penjualan_dqlab;
-- Menggabungkan kolom lain dengan fungsi agregasi
-- Tampilkan nama produk yang paling banyak dibeli dalam 1 kali transaksi
SELECT nama_produk,MAX(qty) FROM tr_penjualan_dqlab;
```

-- Pakai count(distinct) hanya nilai yang unik saja
SELECT COUNT(distinct nama_produk) FROM tr_penjualan_dqlab;

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Praktek* select* (Selesai) ORDER BY, FUNGSI... ×

SCHEMAS Filter objects

- db_buku_tamu
- phpmyadmin
- pti_mart**
 - Tables
 - Views
 - Stored Procedures
 - Functions
- test

Administration Schemas Information

No object selected

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types Query Stats

COUNT(distinct nama_produk)
10

Object Info Session Result 9 × Read Only

9:49 AM 6/16/2025

-- Hitung seluruh baris nama produk dan baris unik dari nama produk

SELECT COUNT(nama_produk),count(distinct nama_produk) FROM tr_penjualan_dqlab;

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Praktek* select* (Selesai) ORDER BY, FUNGSI... ×

SCHEMAS Filter objects

- db_buku_tamu
- phpmyadmin
- pti_mart**
 - Tables
 - Views
 - Stored Procedures
 - Functions
- test

Administration Schemas Information

No object selected

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types Query Stats

COUNT(nama_produk)	count(distinct nama_produk)
15	10

Object Info Session Result 10 × Read Only

9:49 AM 6/16/2025

-- Menggabungkan kolom lain dengan fungsi agregasi

-- Tampilkan nama produk yang paling banyak dibeli dalam 1 kali transaksi

SELECT nama_produk,MAX(qty) FROM tr_penjualan_dqlab;

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Praktek* select* (Selesai) ORDER BY, FUNGSI... ×

SCHEMAS Filter objects

- db_buku_tamu
- phpmyadmin
- pti_mart**
 - Tables
 - Views
 - Stored Procedures
 - Functions
- test

Administration Schemas Information

No object selected

```

72 -- Pakai count(distinct) hanya nilai yang unik saja
73 • SELECT COUNT(DISTINCT nama_produk) FROM tr_penjualan_dqlab;
74 -- Hitung seluruh baris nama produk dan baris unik dari nama produk
75 • SELECT COUNT(nama_produk), COUNT(DISTINCT nama_produk) FROM tr_penjualan_dqlab;
76 -- Menggabungkan kolom lain dengan fungsi agregasi
77 -- Tampilkan nama produk yang paling banyak dibeli dalam 1 kali transaksi
78 • SELECT nama_produk, MAX(qty) FROM tr_penjualan_dqlab;
79
80 -- GROUP BY
81 -- Pengelompokan isi data dari satu kolom atau lebih dan biasanya digabung dengan fungsi agregasi
82 -- Ambil nilai dari pengelompokan nama produk pada tabel penjualan
83 • SELECT nama_produk FROM tr_penjualan_dqlab GROUP BY nama_produk;
```

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types Query Stats

nama_produk	MAX(qty)
Kotak Pensil DQLab	5

Object Info Session Result 11 × Read Only

-- GROUP BY

-- Pengelompokan isi data dari satu kolom atau lebih dan biasanya digabung dengan fungsi agregasi

-- Ambil nilai dari pengelompokan nama produk pada tabel penjualan

SELECT nama_produk FROM tr_penjualan_dqlab GROUP BY nama_produk;

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Praktek* select* (Selesai) ORDER BY, FUNGSI... ×

SCHEMAS Filter objects

- db_buku_tamu
- phpmyadmin
- pti_mart**
 - Tables
 - Views
 - Stored Procedures
 - Functions
- test

Administration Schemas Information

No object selected

```

78 • SELECT nama_produk, MAX(qty) FROM tr_penjualan_dqlab;
79
80 -- GROUP BY
81 -- Pengelompokan isi data dari satu kolom atau lebih dan biasanya digabung dengan fungsi agregasi
82 -- Ambil nilai dari pengelompokan nama produk pada tabel penjualan
83 • SELECT nama_produk FROM tr_penjualan_dqlab GROUP BY nama_produk;
84
85 -- Ambil nilai dari pengelompokan nama produk dan qty pada tabel penjualan
86 • SELECT nama_produk, qty FROM tr_penjualan_dqlab GROUP BY nama_produk, qty;
87
88 -- Ambil nilai dari jumlah qty dari pengelompokan nama produk pada tabel penjualan urut berdasarkan qty besar kecil
89 • SELECT nama_produk, SUM(qty) FROM tr_penjualan_dqlab GROUP BY nama_produk ORDER BY SUM(qty) DESC;
```

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types Query Stats

nama_produk
Buku Planner Agenda DQSquad
Flash disk DQLab 32 GB
Flashdisk DQLab 32 GB
Flashdisk DQLab 64 GB
Gantungan Kund DQLab
Gift Voucher DQLab 100rb
Gift Voucher DQLab 250rb
Kotak Pensil DQLab
Sticky Notes DQLab 500 sheets
Tas Travel Organizer DQLab

Object Info Session tr_penjualan_dqlab 13 × Read Only

-- Ambil nilai dari pengelompokan nama produk dan qty pada tabel penjualan

SELECT nama_produk, qty FROM tr_penjualan_dqlab GROUP BY nama_produk, qty;

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Praktek* select* (Selesai) ORDER BY, FUNGSI... ×

SCHEMAS Filter objects

- db_buku_tamu
- phpmyadmin
- pti_mart**
 - Tables
 - ms_pelanggan_dqlab
 - ms_produk_dqlab
 - tr_penjualan_dqlab
 - Views
 - Stored Procedures
 - Functions
- test

Administration Schemas Information

No object selected

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types Query Stats

```

SELECT nama_produk FROM tr_penjualan_dqlab GROUP BY nama_produk;
```

nama_produk qty

Buku Planner Agenda DQSquad	3
Flash disk DQLab 32 GB	1
Flashdisk DQLab 32 GB	2
Flashdisk DQLab 32 GB	3
Flashdisk DQLab 32 GB	4
Flashdisk DQLab 64 GB	2
Gantungan Kunci DQLab	2
Gift Voucher DQLab 100rb	2
Gift Voucher DQLab 250rb	4
Kotak Pensil DQLab	1
Kotak Pensil DQLab	5
Sticky Notes DQLab 500 sheets	4
Sticky Notes DQLab 500 sheets	5
Tas Travel Organizer DQLab	1

Object Info Session tr_penjualan_dqlab 14 × 9:53 AM 6/16/2025 Read Only

-- Ambil nilai dari jumlah qty dari pengelompokan nama produk pada tabel penjualan urut berdasarkan qty besar kecil

SELECT nama_produk, SUM(qty) FROM tr_penjualan_dqlab GROUP BY nama_produk ORDER BY SUM(qty)DESC;

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Praktek* select* (Selesai) ORDER BY, FUNGSI... ×

SCHEMAS Filter objects

- db_buku_tamu
- phpmyadmin
- pti_mart**
 - Tables
 - ms_pelanggan_dqlab
 - ms_produk_dqlab
 - tr_penjualan_dqlab
 - Views
 - Stored Procedures
 - Functions
- test

Administration Schemas Information

No object selected

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types Query Stats

```

SELECT nama_produk FROM tr_penjualan_dqlab GROUP BY nama_produk;
```

nama_produk SUM(qty)

Flashdisk DQLab 32 GB	9
Sticky Notes DQLab 500 sheets	9
Kotak Pensil DQLab	6
Buku Planner Agenda DQSquad	6
Gift Voucher DQLab 250rb	4
Gift Voucher DQLab 100rb	2
Flashdisk DQLab 64 GB	2
Gantungan Kunci DQLab	2
Flash disk DQLab 32 GB	1
Tas Travel Organizer DQLab	1

Object Info Session Result 15 × 9:54 AM 6/16/2025 Read Only

-- HAVING

-- kata kunci untuk filtering pada hasil fungsi agregasi dengan GROUP BY

-- Ambil nama produk yang hasil penjualan qty > 2

SELECT nama_produk, SUM(qty) AS produkTerjual
 FROM tr_penjualan_dqlab
 GROUP BY nama_produk
 HAVING SUM(qty) > 2;

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Praktek* select* (Selesai) ORDER BY, FUNGSI... X

SCHEMAS Filter objects

- db_buku_tamu
- phpmyadmin
- pti_mart
- ms_pelanggan_dqlab
- ms_produk_dqlab
- tr_penjualan_dqlab

Tables Views Stored Procedures Functions

test

Administration Schemas Information

No object selected

Result Grid Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types Query Stats

nama_produk	produkTerjual
Buku Planner Agenda DQSquad	6
Flashdisk DQLab 32 GB	9
Gift Voucher DQLab 250rb	4
Kotak Pensil DQLab	6
Sticky Notes DQLab 500 sheets	9

Object Info Session Result 16 X Read Only 9:54 AM 6/16/2025

```
-- Latihan Mandiri
-- latihan 1
SELECT nama_produk, SUM(qty) AS produkTerjual
FROM tr_penjualan_dqlab
GROUP BY nama_produk
HAVING SUM(qty) >4;
```

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Praktek* select* (Selesai) ORDER BY, FUNGSI... X

SCHEMAS Filter objects

- db_buku_tamu
- phpmyadmin
- pti_mart
- ms_pelanggan_dqlab
- ms_produk_dqlab
- tr_penjualan_dqlab

Tables Views Stored Procedures Functions

test

Administration Schemas Information

No object selected

Result Grid Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types Query Stats

nama_produk	produkTerjual
Buku Planner Agenda DQSquad	6
Flashdisk DQLab 32 GB	9
Kotak Pensil DQLab	6
Sticky Notes DQLab 500 sheets	9

Object Info Session Result 17 X Read Only 9:54 AM 6/16/2025

```
-- latihan 2
SELECT nama_produk, SUM(qty) AS produkTerjual
FROM tr_penjualan_dqlab
GROUP BY nama_produk
HAVING SUM(qty) =9;
```

-- latihan 2

```
SELECT nama_produk, SUM(qty) AS produkTerjual
FROM tr_penjualan_dqlab
GROUP BY nama_produk
HAVING SUM(qty) =9;
```

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator

Praktek* select* (Selesai) ORDER BY, FUNGSI...

```

102     FROM tr_penjualan_dqlab
103     GROUP BY nama_produk
104     HAVING SUM(qty) >4;
105
106     -- latihan 2
107 •    SELECT nama_produk, SUM(qty) AS produkTerjual
108     FROM tr_penjualan_dqlab
109     GROUP BY nama_produk
110     HAVING SUM(qty) =9;
111
112     -- latihan 3
113 •    SELECT nama_produk, qty, harga, diskon_persen, (qty*harga) AS total_harga, SUM(qty*harga) - (qty * harga * (diskon_persen / 100)) AS Total_setelah_Diskon

```

No object selected

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types Query Stats

nama_produk	produkTerjual
Flashdisk DQLab 32 GB	9
Sticky Notes DQLab 500 sheets	9

Object Info Session Result 18 X Read Only 9:55 AM 6/16/2025

-- latihan 3

```

SELECT nama_produk, qty, harga, diskon_persen, (qty*harga) AS total_harga, SUM(qty*harga) - (qty * harga * (diskon_persen / 100)) AS Total_setelah_Diskon
FROM tr_penjualan_dqlab
GROUP BY nama_produk, qty
HAVING diskon_persen >0
ORDER BY SUM(qty)DESC;

```

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator

Praktek* select* (Selesai) ORDER BY, FUNGSI...

```

107 •    SELECT nama_produk, SUM(qty) AS produkTerjual
108     FROM tr_penjualan_dqlab
109     GROUP BY nama_produk
110     HAVING SUM(qty) =9;
111
112     -- latihan 3
113 •    SELECT nama_produk, qty, harga, diskon_persen, (qty*harga) AS total_harga, SUM(qty*harga) - (qty * harga * (diskon_persen / 100)) AS Total_setelah_Diskon
114     FROM tr_penjualan_dqlab
115     GROUP BY nama_produk, qty
116     HAVING diskon_persen >0
117     ORDER BY SUM(qty)DESC;
118

```

No object selected

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types Query Stats

nama_produk	qty	harga	diskon_persen	total_harga	Total_setelah_Diskon
Flashdisk DQLab 64 GB	2	55000	12.5	110000	96250
Flash disk DQLab 32 GB	1	100000	25	100000	75000
Kotak Pensil DQLab	1	62500	5	62500	59375

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