NAMA: IRSYAD HAKKI

NIM: 23241004

Kelas: A

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

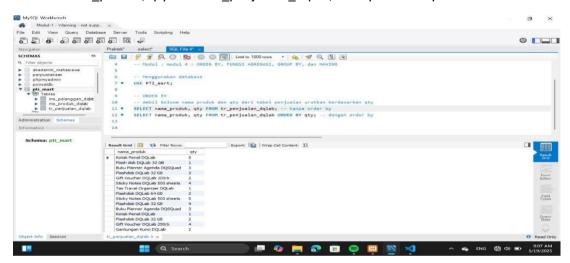
-- Menggunakan database

USE PTI\_mart;

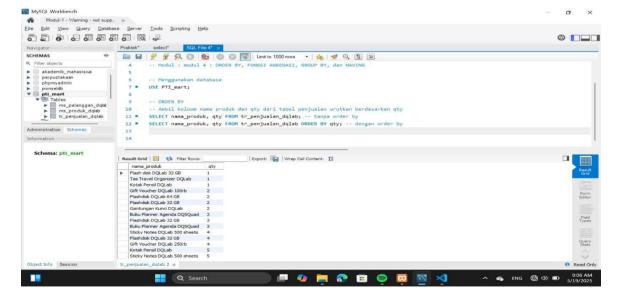
### -- ORDER BY

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

SELECT nama\_produk, qty FROM tr\_penjualan\_dqlab; -- tanpa order by



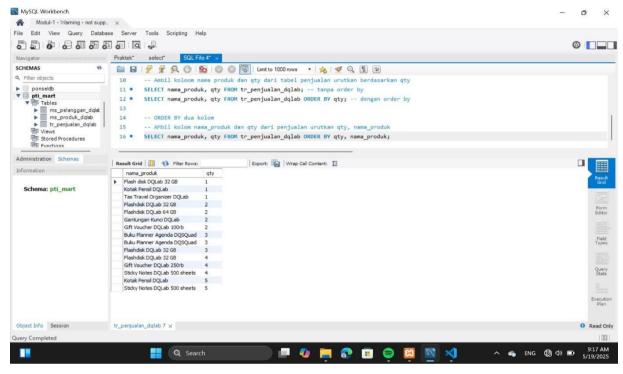
SELECT nama\_produk, qty FROM tr\_penjualan\_dqlab ORDER BY qty; -- dengan order by



#### -- ORDER BY 2 kolom

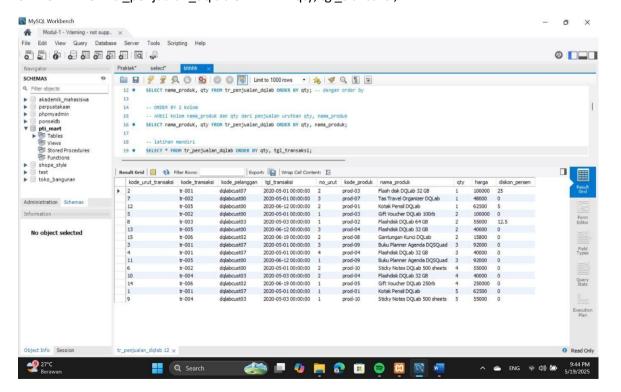
-- AMbil kolom nama\_produk dan qty dari penjualan urutkan qty, nama\_produk

SELECT nama\_produk, qty FROM tr\_penjualan\_dqlab ORDER BY qty, nama\_produk;

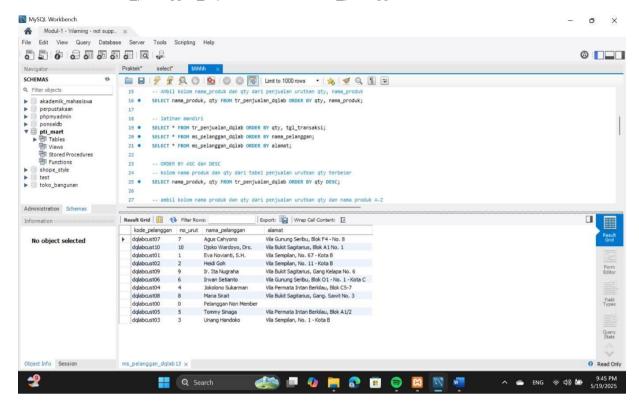


#### -- latihan mandiri

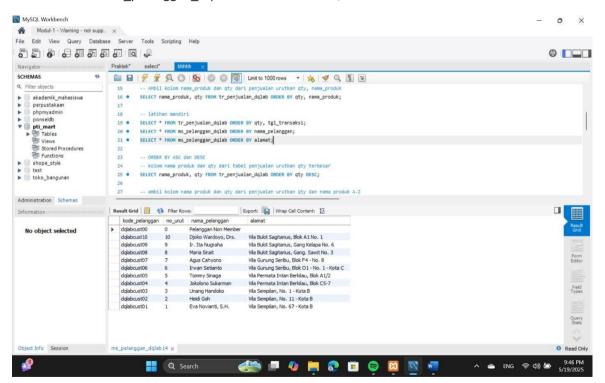
SELECT \* FROM tr\_penjualan\_dqlab ORDER BY qty, tgl\_transaksi;



## SELECT \* FROM ms\_pelanggan\_dqlab ORDER BY nama\_pelanggan;



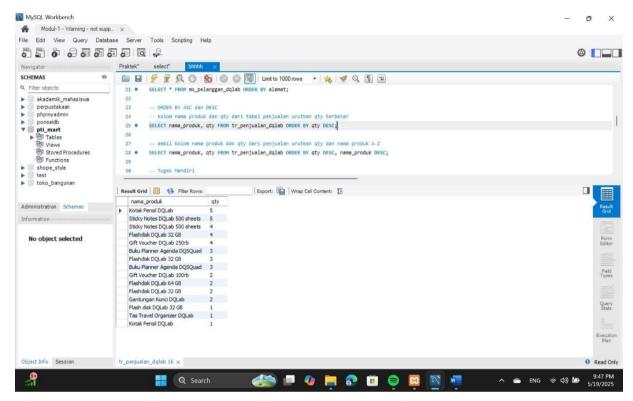
### SELECT \* FROM ms\_pelanggan\_dqlab ORDER BY alamat;



#### -- ORDER BY ASC dan DESC

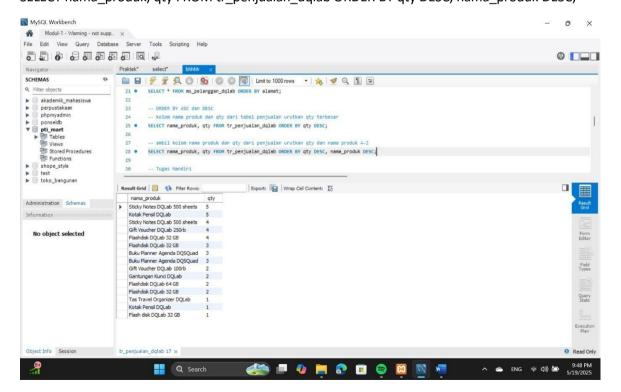
-- kolom nama produk dan qty dari tabel penjualan urutkan qty terbesar

SELECT nama\_produk, qty FROM tr\_penjualan\_dqlab ORDER BY qty DESC;



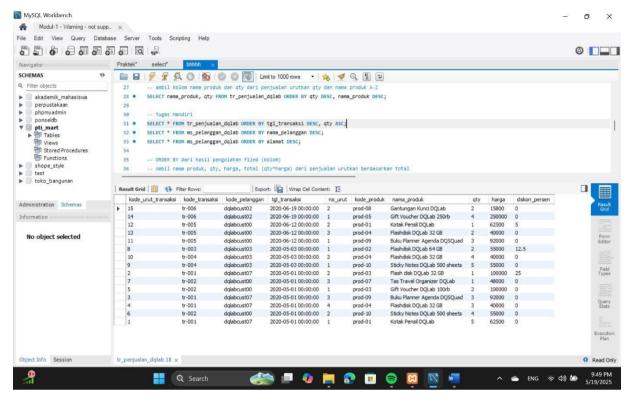
-- ambil kolom nama produk dan qty dari penjualan urutkan qty dan nama produk A-Z

SELECT nama\_produk, qty FROM tr\_penjualan\_dqlab ORDER BY qty DESC, nama\_produk DESC;

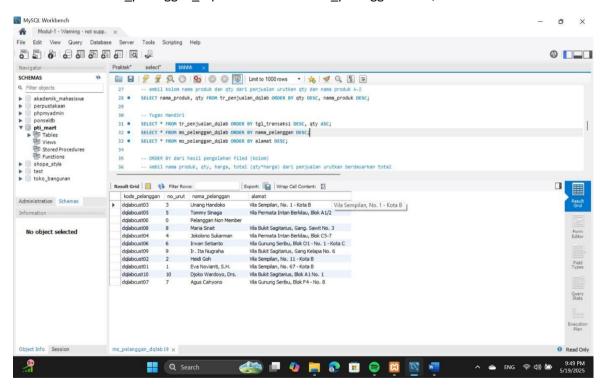


### -- Tugas Mandiri

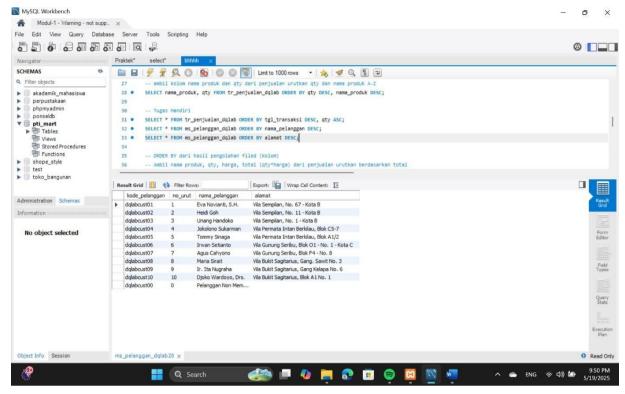
SELECT \* FROM tr\_penjualan\_dqlab ORDER BY tgl\_transaksi DESC, qty ASC;



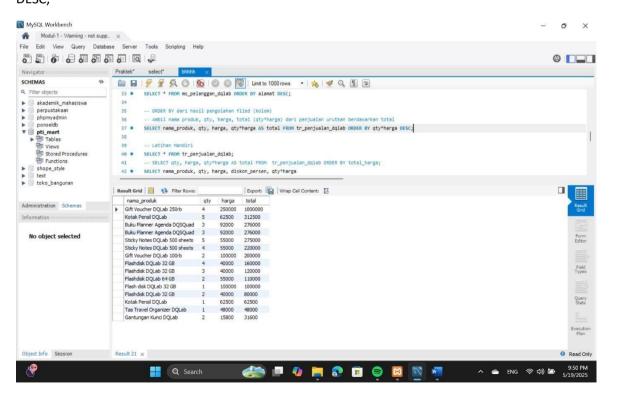
SELECT \* FROM ms\_pelanggan\_dqlab ORDER BY nama\_pelanggan DESC;



# SELECT \* FROM ms pelanggan dqlab ORDER BY alamat DESC;



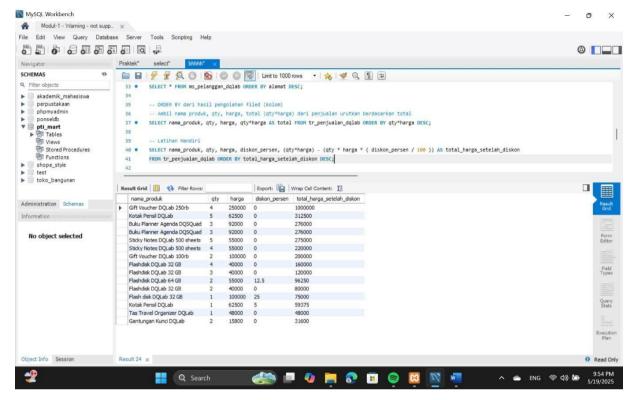
- -- ORDER BY dari hasil pengolahan filed (kolom)
- -- Ambil nama produk, qty, harga, total (qty\*harga) dari penjualan urutkan berdasarkan total SELECT nama\_produk, qty, harga, qty\*harga AS total FROM tr\_penjualan\_dqlab ORDER BY qty\*harga DESC:



#### -- Latihan Mandiri

SELECT nama\_produk, qty, harga, diskon\_persen, (qty\*harga) - (qty \* harga \* ( diskon\_persen / 100 )) AS total\_harga\_setelah\_diskon

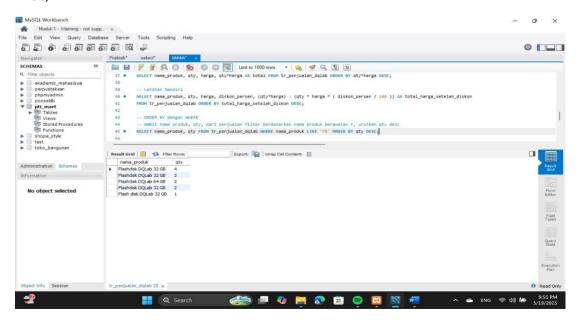
FROM tr penjualan dglab ORDER BY total harga setelah diskon DESC;



### -- ORDER BY dengan WHERE

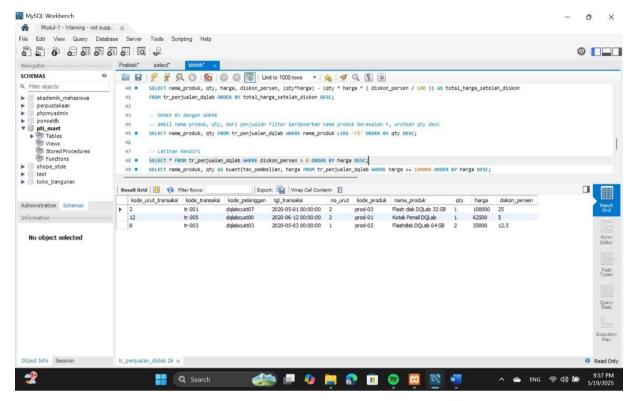
-- ambil nama produk, qty, dari penjualan filter berdasarkan nama produk berawalan F, urutkan qty desc

SELECT nama\_produk, qty FROM tr\_penjualan\_dqlab WHERE nama\_produk LIKE 'F%' ORDER BY qty DESC:

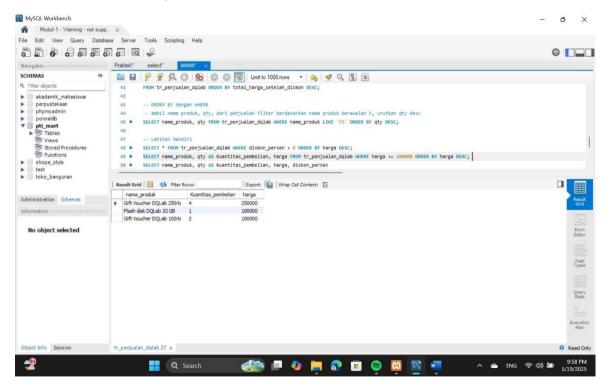


#### -- Latihan Mandiri

SELECT \* FROM tr penjualan dqlab WHERE diskon persen > 0 ORDER BY harga DESC;

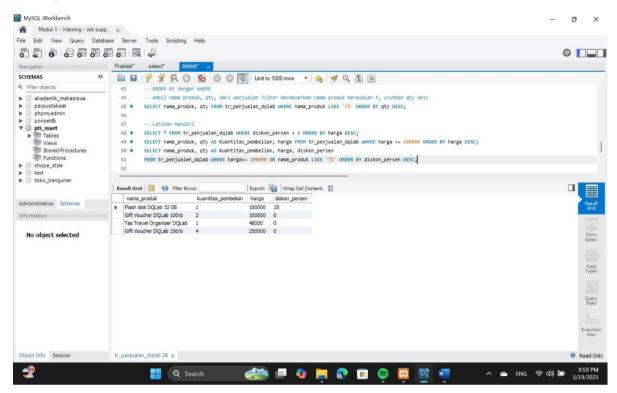


SELECT nama\_produk, qty AS Kuantitas\_pembelian, harga FROM tr\_penjualan\_dqlab WHERE harga >= 100000 ORDER BY harga DESC;

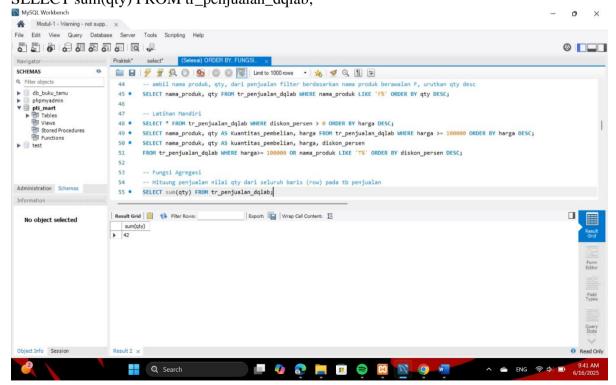


SELECT nama\_produk, qty AS kuantitas\_pembelian, harga, diskon\_persen

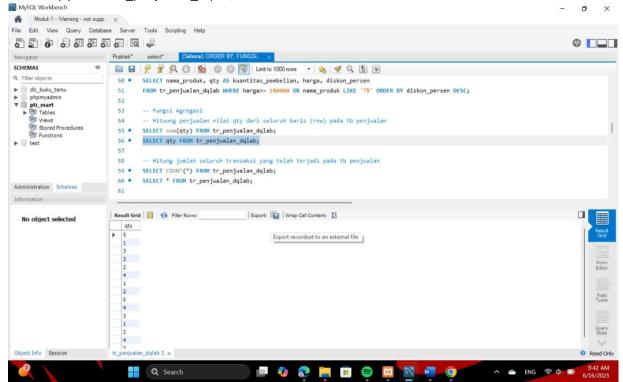
FROM tr\_penjualan\_dqlab WHERE harga>= 100000 OR nama\_produk LIKE 'T%' ORDER BY diskon\_persen DESC;



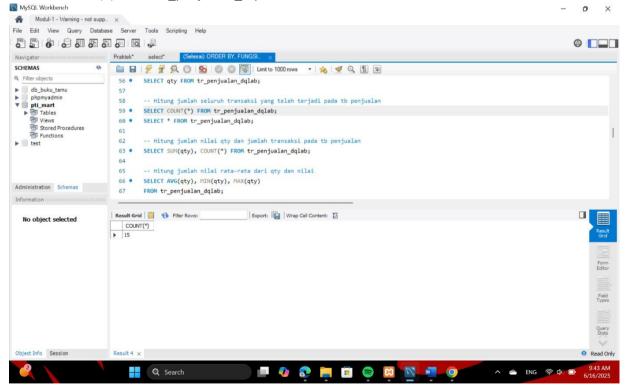
- -- Fungsi Agregasi
- -- Hituung penjualan nilai qty dari seluruh baris (row) pada tb penjualan SELECT sum(qty) FROM tr\_penjualan\_dqlab;



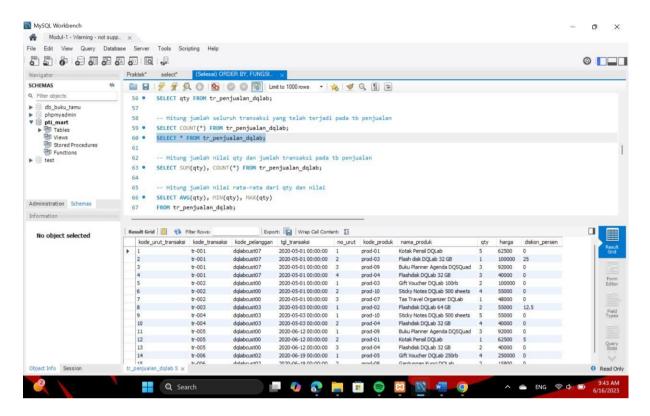
SELECT qty FROM tr\_penjualan\_dqlab;



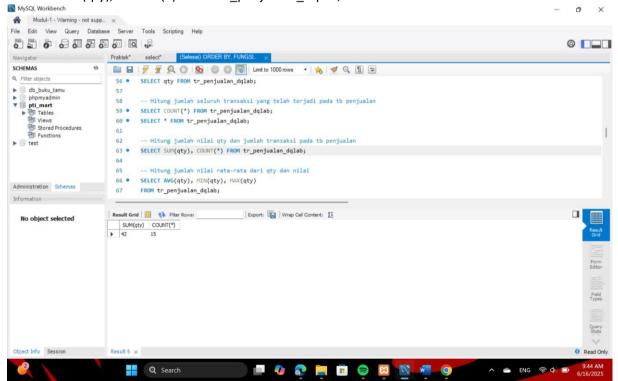
-- Hitung jumlah seluruh transaksi yang telah terjadi pada tb penjualan SELECT COUNT(\*) FROM tr\_penjualan\_dqlab;



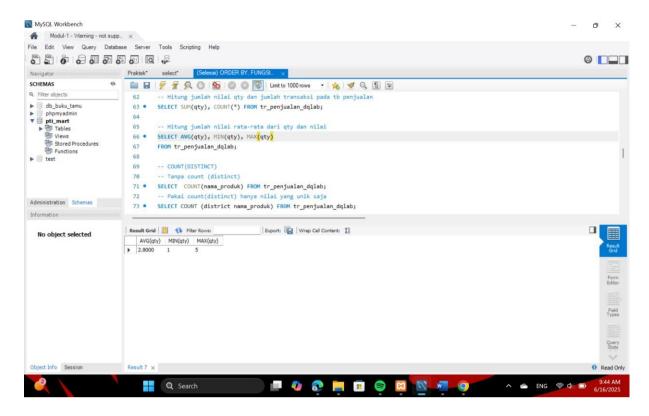
SELECT \* FROM tr\_penjualan\_dqlab;



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

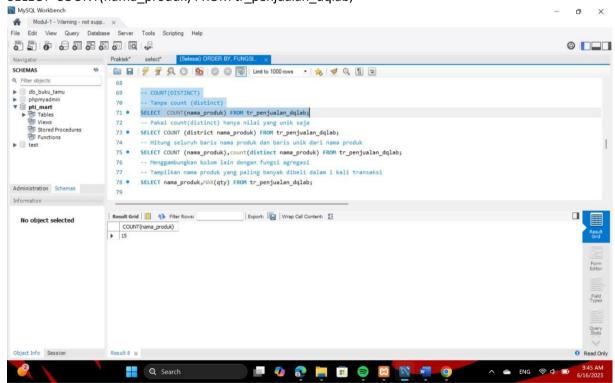


 Hitung jumlah nilai rata-rata dari qty dan nilai SELECT AVG(qty), MIN(qty), MAX(qty) FROM tr\_penjualan\_dqlab;

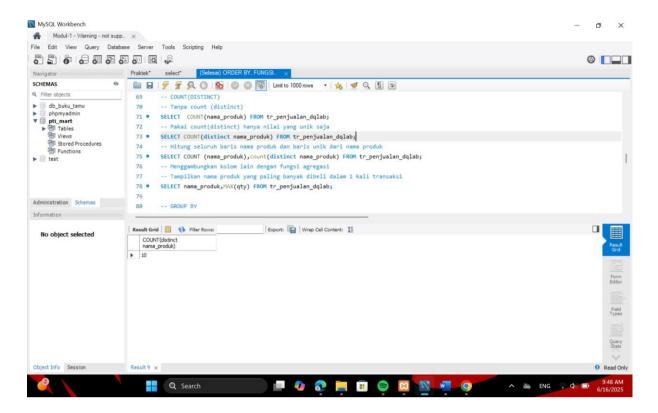


- -- COUNT(DISTINCT)
- -- Tanpa count (distinct)

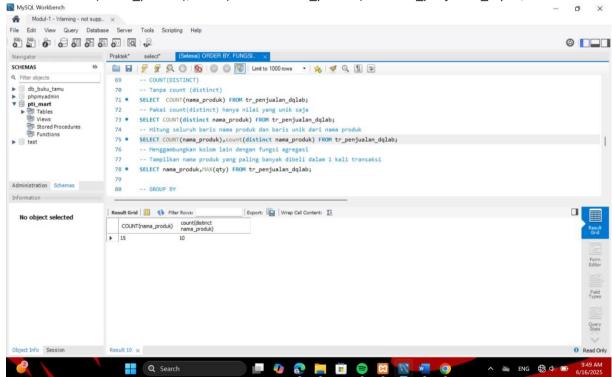
SELECT COUNT(nama\_produk) FROM tr\_penjualan\_dqlab;



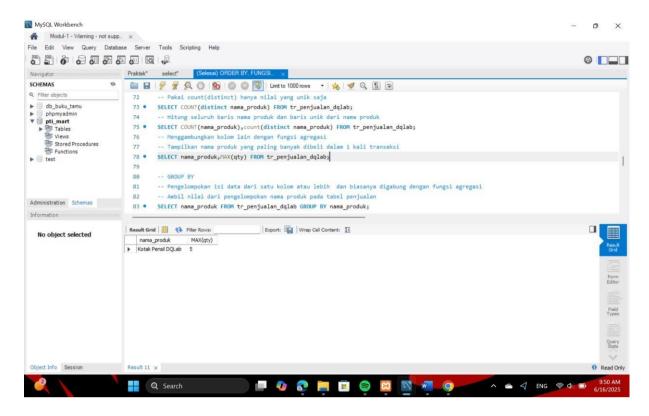
--- Pakai count(distinct) hanya nilai yang unik saja SELECT COUNT(distinct nama\_produk) FROM tr\_penjualan\_dqlab;



-- Hitung seluruh baris nama produk dan baris unik dari nama produk SELECT COUNT(nama\_produk),count(distinct nama\_produk) FROM tr\_penjualan\_dqlab;

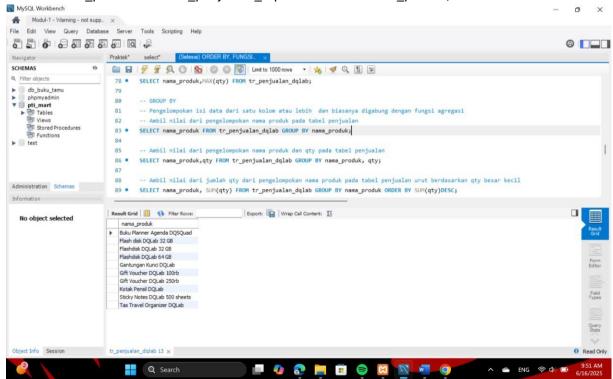


- -- Menggambungkan kolom lain dengan fungsi agregasi
- -- Tampilkan nama produk yang paling banyak dibeli dalam 1 kali transaksi SELECT nama\_produk,MAX(qty) FROM tr\_penjualan\_dqlab;

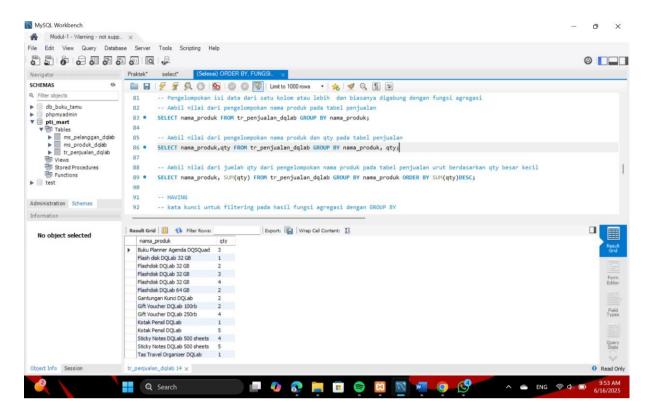


- -- GROUP BY
- -- Pengelompokan isi data dari satu kolom atau lebih dan biasanya digabung dengan fungsi agregasi
- -- Ambil nilai dari pengelompokan nama produk pada tabel penjualan

SELECT nama\_produk FROM tr\_penjualan\_dqlab GROUP BY nama\_produk;

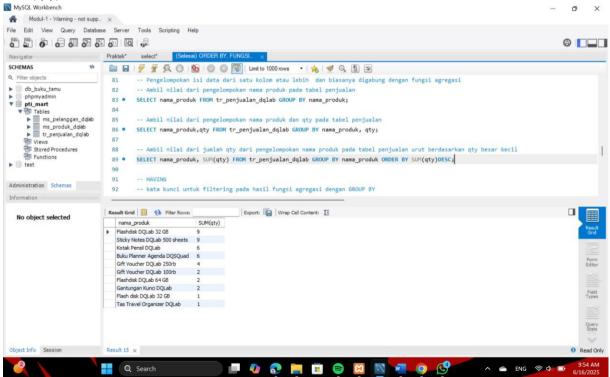


-- Ambil nilai dari pengelompokan nama produk dan qty pada tabel penjualan SELECT nama\_produk,qty FROM tr\_penjualan\_dqlab GROUP BY nama\_produk, qty;

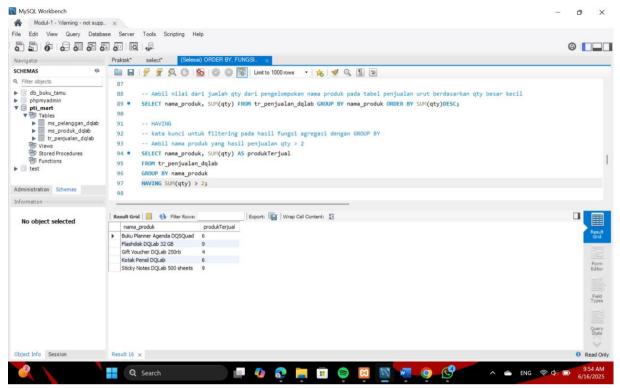


-- Ambil nilai dari jumlah qty dari pengelompokan nama produk pada tabel penjualan urut berdasarkan qty besar kecil

SELECT nama\_produk, SUM(qty) FROM tr\_penjualan\_dqlab GROUP BY nama\_produk ORDER BY SUM(qty)DESC;



- -- 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;



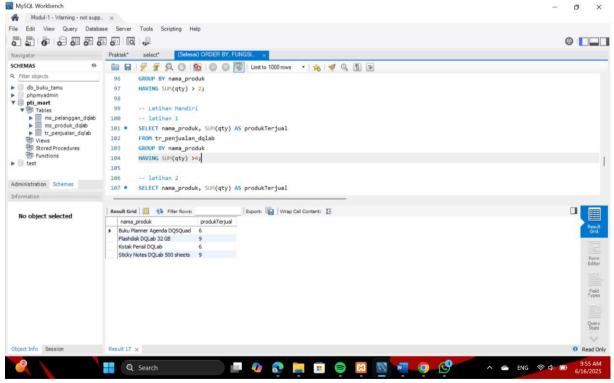
- -- Latihan Mandiri
- -- latihan 1

SELECT nama\_produk, SUM(qty) AS produkTerjual

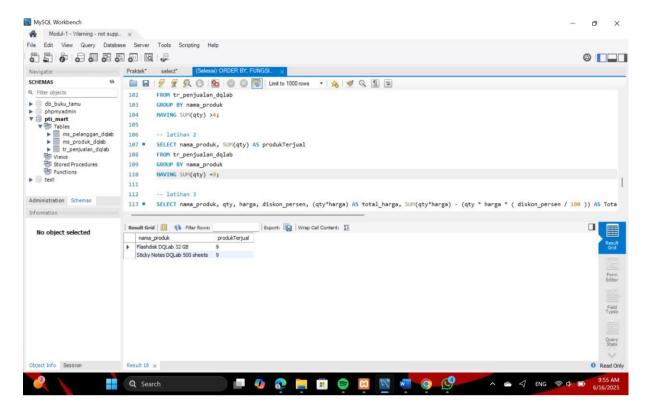
FROM tr\_penjualan\_dqlab

GROUP BY nama\_produk

HAVING SUM(qty) >4;



-- latihan 2
SELECT nama\_produk, SUM(qty) AS produkTerjual
FROM tr\_penjualan\_dqlab
GROUP BY nama\_produk
HAVING SUM(qty) =9;



#### -- 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

