# Praktikum 2 Sistem Basis Data 2023

NRP / Nama : 5025221161 / Mohammad Hanif Furgan Aufa Putra

Kelas : J

RDBMS : MySQL

Link SQL :

https://drive.google.com/drive/folders/1qUy0KdCEFZFXwNeCTBZHr

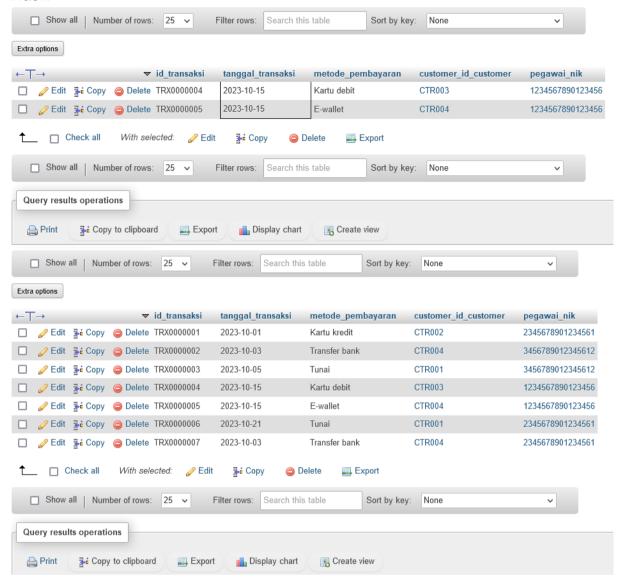
c0PeerZFt27?usp=drive\_link

Kode Asdos : SBDJ02

Sesi : Modul Pendahuluan 3

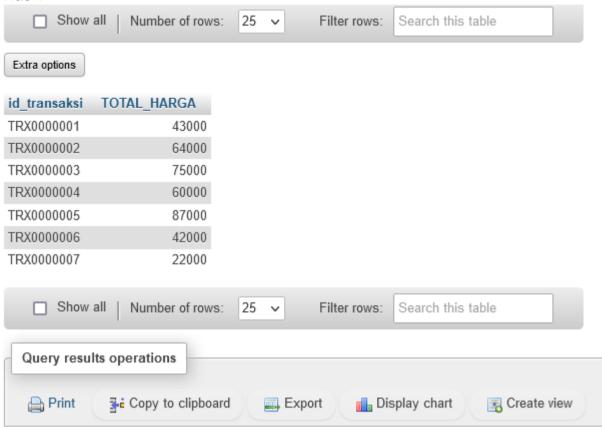
# Nomor 1

```
SELECT *
FROM transaksi
WHERE tanggal_transaksi BETWEEN '2023-10-10' AND '2023-10-20';
SELECT *
FROM transaksi;
```



#### Nomor 2

```
SELECT t.id_transaksi, SUM(mm.harga_minuman * tm.jumlah_minuman) AS
TOTAL_HARGA
FROM transaksi t
JOIN transaksi_minuman tm ON t.id_transaksi = tm.tm_transaksi_id
JOIN menu_minuman mm ON tm.tm_menu_minuman_id = mm.id_minuman
GROUP BY t.id_transaksi;
```



# Nomor 3

```
SELECT c.*, SUM(mm.harga_minuman * tm.jumlah_minuman) AS Total_Belanja
FROM customer c

JOIN transaksi t ON c.id_customer = t.customer_id_customer

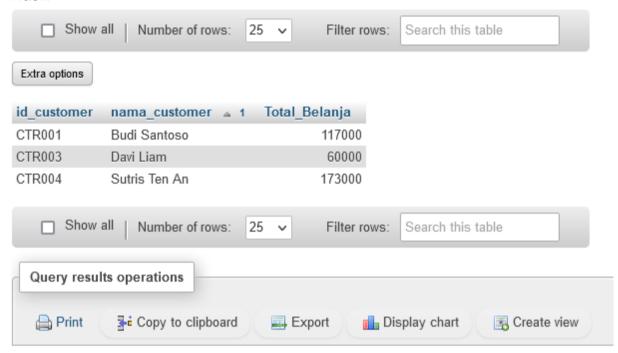
JOIN transaksi_minuman tm ON t.id_transaksi = tm.tm_transaksi_id

JOIN menu_minuman mm ON tm.tm_menu_minuman_id = mm.id_minuman

WHERE t.tanggal_transaksi BETWEEN '2023-10-03' AND '2023-10-22'

GROUP BY c.id_customer

ORDER BY c.nama_customer;
```

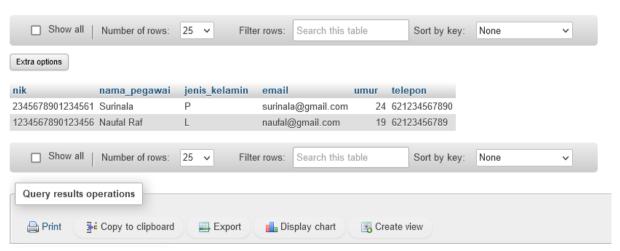


#### Nomor 4

### Sintaks:

```
SELECT p.*
FROM pegawai p
JOIN transaksi t ON p.nik = t.pegawai_nik
JOIN customer c ON t.customer_id_customer = c.id_customer
WHERE c.nama_customer IN ('Davi Liam', 'Sisil Triana', 'Hendra Asto');
```

# Hasil:



Nomor 5

#### Sintaks:

```
SELECT

EXTRACT(MONTH FROM t.tanggal_transaksi) AS BULAN,

EXTRACT(YEAR FROM t.tanggal_transaksi) AS TAHUN,

SUM(tm.jumlah_minuman) AS JUMLAH_CUP

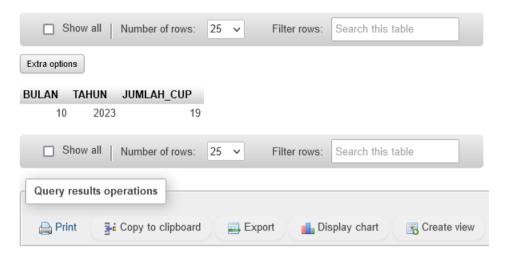
FROM transaksi t

JOIN transaksi_minuman tm ON t.id_transaksi = tm.tm_transaksi_id

GROUP BY BULAN, TAHUN

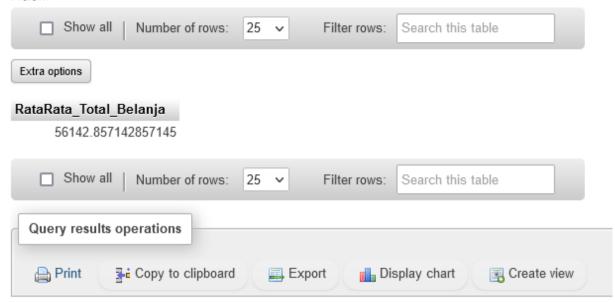
ORDER BY TAHUN DESC, BULAN;
```

# Hasil:



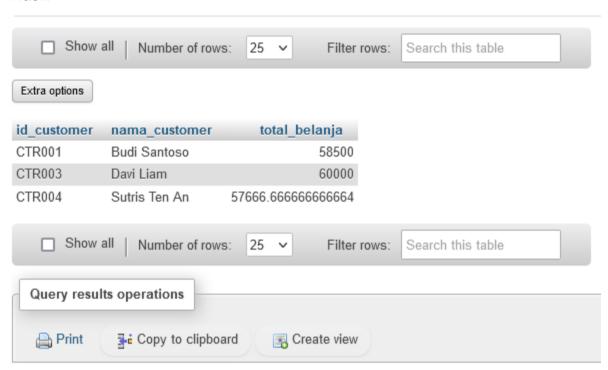
# Nomor 6

```
SELECT AVG(total_belanja) AS RataRata_Total_Belanja
FROM (
    SELECT t.id_transaksi, SUM(tm.jumlah_minuman * mm.harga_minuman) AS
total_belanja
    FROM transaksi t
    JOIN transaksi_minuman tm ON t.id_transaksi = tm.tm_transaksi_id
    JOIN menu_minuman mm ON tm.tm_menu_minuman_id = mm.id_minuman
    GROUP BY t.id_transaksi
) AS subquery;
```



### Nomor 7

```
SELECT c.id_customer, c.nama_customer, AVG(t.total_harga) AS total_belanja
FROM customer c
JOIN (
    SELECT t.customer_id_customer, t.id_transaksi, SUM(tm.jumlah_minuman *
mm.harga_minuman) AS total_harga
    FROM transaksi t
    JOIN transaksi_minuman tm ON t.id_transaksi = tm.tm_transaksi_id
    JOIN menu_minuman mm ON tm.tm_menu_minuman_id = mm.id_minuman
    GROUP BY t.customer_id_customer, t.id_transaksi
) t ON c.id_customer = t.customer_id_customer
GROUP BY c.id_customer, c.nama_customer
HAVING AVG(t.total_harga) > (
    SELECT AVG(total_harga)
    FROM (
        SELECT t.customer_id_customer, SUM(tm.jumlah_minuman *
mm.harga_minuman) AS total_harga
        FROM transaksi t
        JOIN transaksi_minuman tm ON t.id_transaksi = tm.tm_transaksi_id
        JOIN menu_minuman mm ON tm.tm_menu_minuman_id = mm.id_minuman
        GROUP BY t.customer_id_customer, t.id_transaksi
    ) subquery
```

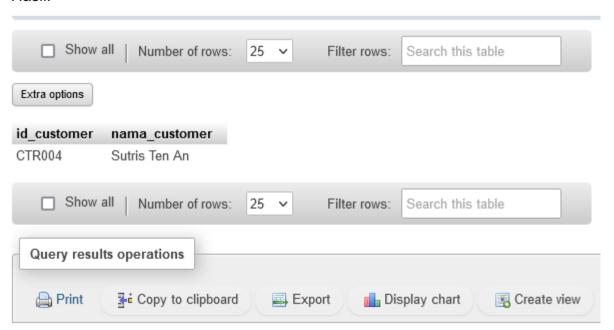


#### Nomor 8

# Sintaks:

```
SELECT c.id_customer, c.nama_customer
FROM customer c
LEFT JOIN membership m ON c.id_customer = m.m_id_customer
WHERE m.m_id_customer IS NULL;
```

#### Hasil:



### Nomor 9

Sintaks:

```
SELECT COUNT(DISTINCT t.customer_id_customer) AS Jumlah_Customer
FROM transaksi t
JOIN transaksi_minuman tm ON t.id_transaksi = tm.tm_transaksi_id
JOIN menu_minuman mm ON tm.tm_menu_minuman_id = mm.id_minuman
WHERE mm.nama_minuman = 'Latte';
```

### Hasil:



### Nomor 10

```
SELECT
    customer.nama_customer,
    menu_minuman.nama_minuman,
    SUM(transaksi_minuman.jumlah_minuman) AS total_cup
FROM customer

JOIN membership ON id_customer = m_id_customer

JOIN transaksi ON id_customer = customer_id_customer

JOIN transaksi_minuman ON id_transaksi = tm_transaksi_id

JOIN menu_minuman ON tm_menu_minuman_id = id_minuman
WHERE nama_customer LIKE 'S%'

GROUP BY
    nama_customer,
    nama_minuman;
```

