**Praktikum 3 Sistem Basis Data 2023**

**NRP / Nama :** 5025221191/Ahmad Fatih Ramadhani **Kelas :** G

**RDBMS :** MySQL

**Link SQL :** <https://docs.google.com/document/d/18mCLCLox7V0ya-jJJNww4jF3J4uHn_chuKlXyQSG-j8/edit?usp=sharing>

**Kode Asdos :** SBDG01

**Sesi : Modul Pendahuluan**

**Nomor 1**

Sintaks:

**SELECT** \*

**FROM** transaksi

**WHERE** tanggal\_transaksi **BETWEEN** '2023-10-10' **AND** '2023-10-20';

Hasil:

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**Nomor 2**

Sintaks:

**SELECT** t.id\_transaksi,**SUM**(m.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 m **ON** tm.tm\_menu\_minuman\_id = m.id\_minuman

**GROUP** **BY**

t.id\_transaksi;

Hasil:

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**Nomor 3**

Sintaks:

**SELECT**

c.\*,**COALESCE**(**SUM**(mm.harga\_minuman \* tm.jumlah\_minuman), 0) **AS** Total\_Belanja

**FROM**

customer c

**LEFT** **JOIN** membership mship

**ON** c.id\_customer = mship.m\_id\_customer

**LEFT** **JOIN** membership m

**ON** mship.id\_membership = m.id\_membership

**LEFT** **JOIN** transaksi t

**ON** c.id\_customer = t.customer\_id\_customer

**LEFT** **JOIN** transaksi\_minuman tm

**ON** t.id\_transaksi = tm.tm\_transaksi\_id

**LEFT** **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'

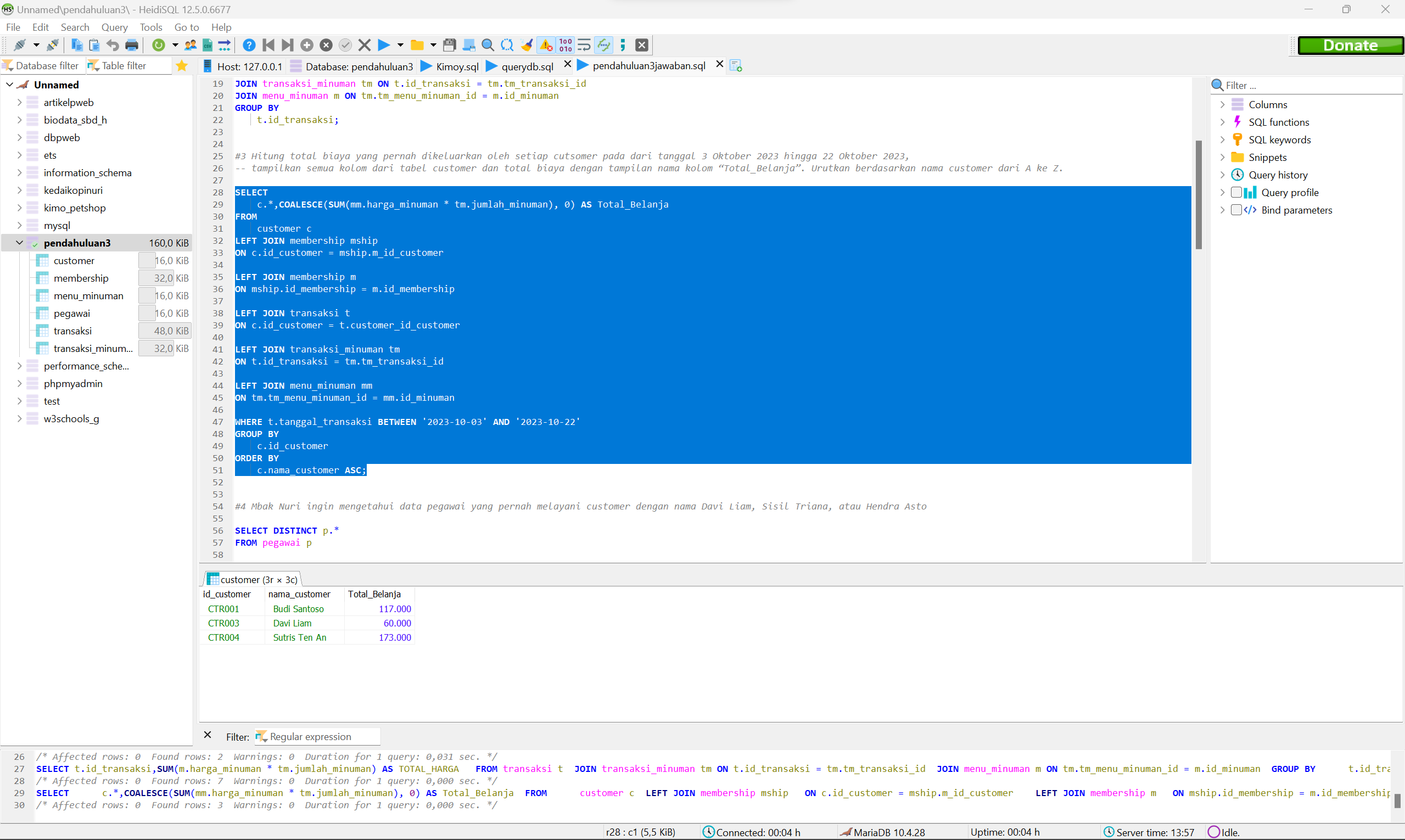
**GROUP** **BY**

c.id\_customer

**ORDER** **BY**

c.nama\_customer **ASC**;

Hasil:



**Nomor 4**

Sintaks:

**SELECT** **DISTINCT** 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.id\_customer **IN** ('CTR003', 'CTR002', 'CTR005');

Hasil:

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**Nomor 5**

Sintaks:

**SELECT** **MONTH**(t.tanggal\_transaksi) **AS** BULAN, **YEAR**(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

**JOIN** menu\_minuman mm

**ON** tm.tm\_menu\_minuman\_id = mm.id\_minuman

**GROUP** **BY**

BULAN, TAHUN

**ORDER** **BY**

TAHUN **DESC**, BULAN **ASC**;

Hasil:

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**Nomor 6**

Sintaks:

**SELECT** **AVG**(Total\_Belanja) **AS** rata2\_total\_belanja

**FROM** (**SELECT** **SUM**(mm.harga\_minuman \* tm.jumlah\_minuman) **AS** Total\_Belanja

**FROM** transaksi\_minuman tm

**JOIN** menu\_minuman mm **ON** mm.id\_minuman = tm.tm\_menu\_minuman\_id

**GROUP** **BY** tm.tm\_transaksi\_id

) **AS** TabelRataRataTotalBelanja;

Hasil:

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**Nomor 7**

Sintaks:

**SELECT** c.id\_customer, c.nama\_customer, **SUM**(Belanja\_Customer) **as** Total\_Belanja

**FROM** (**SELECT** t.customer\_id\_customer, **SUM**(mm.harga\_minuman \* tm.jumlah\_minuman) **AS** Belanja\_Customer

**FROM** transaksi t

**JOIN** transaksi\_minuman tm **ON** tm.tm\_transaksi\_id = t.id\_transaksi

**JOIN** menu\_minuman mm **ON** mm.id\_minuman = tm.tm\_menu\_minuman\_id

**GROUP** **BY** t.id\_transaksi) **AS** RataRataTotalBelanjaPerTransaksi

**JOIN** customer c **ON** c.id\_customer = RataRataTotalBelanjaPerTransaksi.customer\_id\_customer

**GROUP** **BY** c.id\_customer

**HAVING** **AVG**(Belanja\_Customer) > (

**SELECT** **AVG**(avg\_total\_belanja)

**FROM** (**SELECT** **SUM**(mm.harga\_minuman \* tm.jumlah\_minuman) **AS** avg\_total\_belanja

**FROM** transaksi\_minuman tm

**JOIN** menu\_minuman mm **ON** (mm.id\_minuman = tm.tm\_menu\_minuman\_id)

**GROUP** **BY** (tm.tm\_transaksi\_id)) **AS** RataRataKeseluruhan);

Hasil:

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**Nomor 8**

Sintaks:

**SELECT** \*

**FROM** customer

**WHERE** id\_customer **NOT** **IN** (**SELECT** m\_id\_customer **FROM** membership **WHERE** m\_id\_customer **IS** **NOT** **NULL**);

Hasil:

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**Nomor 9**

Sintaks:

**SELECT** **COUNT**(**DISTINCT** c.id\_customer) **AS** jumlah\_customer\_latte

**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** mm.id\_minuman = 'MNM003';

Hasil:

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**Nomor 10**

Sintaks:

**SELECT** c.nama\_customer, mm.nama\_minuman, **SUM**(tm.jumlah\_minuman) **AS** total\_jumlah\_cup

**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**

c.nama\_customer **LIKE** 'S%'

**GROUP** **BY**

c.nama\_customer, mm.nama\_minuman;

Hasil:

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