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Kelas : A

Laporan Praktikum Modul 10

PRAKTIKUM

- Langkah 1 sampai 5

```
c:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 9
Server version: 10.4.11-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use perbankan
Database changed
MariaDB [perbankan]> select*from nasabah where nasabah.id_nasabah IN(select distinct transaksi.id_nasabahFK from transaksi where jenis_transaksi='kredit');
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | Sutopo | Jl. Jendral Sudirman 12 |
| 2 | Maryati | Jl. MT. Haryono 31 |
| 3 | Suparman | Jl. Hasanudin 81 |
| 4 | Kartika Padmasari | Jl. Manggis 15 |
| 5 | Budi Eko Prayogo | Jl. Kantil 30 |
| 9 | Canka Lokananta | Jl. Tidar 86 |
| 12 | Julli Ariawan | Jl. Mangga 17 |
| 14 | Candra Kirana | Jl. Durian 34 |
| 16 | Septian Dwi | Jl. Jeruk 6 |
+-----+-----+-----+
9 rows in set (0.124 sec)

MariaDB [perbankan]>
```

- Langkah 6

```
MariaDB [perbankan]> select*from nasabah where nasabah.id_nasabah NOT IN(select transaksi.id_nasabahFK from transaksi);
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 6 | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 32 | Suhartomo | Wonogiri |
+-----+-----+-----+
3 rows in set (0.005 sec)

MariaDB [perbankan]>
```

- Langkah 7

```
MariaDB [perbankan]> select cabang_bank.kode_cabang, cabang_bank.nama_cabang, AVG(rekening.saldo) as rata2 from cabang_bank, rekening where cabang_bank.kode_cabang=rekening.kode_cabangFK group by cabang_bank.kode_cabang having rata2 >= ALL(select AVG(saldo) from rekening group by kode_cabangFK);
+-----+-----+-----+
| kode_cabang | nama_cabang | rata2 |
+-----+-----+-----+
| BRUB | Bank Rut Unit Boyolali | 2500000.0000 |
+-----+-----+-----+
1 row in set (0.044 sec)

MariaDB [perbankan]>
```

- Langkah 8

```
MariaDB [perbankan]> select*from transaksi where jumlah > (select avg(jumlah) from transaksi);
+-----+-----+-----+-----+-----+-----+
| no_transaksi | no_rekeningfk | id_nasabahfk | jenis_transaksi | tanggal | jumlah |
+-----+-----+-----+-----+-----+-----+
| 6 | 104 | 1 | kredit | 2009-11-15 00:00:00 | 200000 |
| 7 | 110 | 9 | kredit | 2009-11-15 00:00:00 | 150000 |
| 13 | 107 | 4 | kredit | 2009-11-20 00:00:00 | 200000 |
| 21 | 103 | 2 | kredit | 2009-11-28 00:00:00 | 200000 |
| 28 | 102 | 5 | kredit | 2009-12-05 00:00:00 | 200000 |
| 33 | 122 | 19 | debit | 2009-12-07 00:00:00 | 150000 |
| 35 | 114 | 11 | debit | 2009-12-07 00:00:00 | 200000 |
| 37 | 117 | 14 | debit | 2009-12-08 00:00:00 | 800000 |
| 38 | 121 | 18 | debit | 2009-12-08 00:00:00 | 400000 |
| 39 | 120 | 17 | debit | 2009-12-08 00:00:00 | 120000 |
| 44 | 114 | 11 | debit | 2009-12-09 00:00:00 | 140000 |
| 45 | 117 | 14 | kredit | 2009-12-10 00:00:00 | 500000 |
| 46 | 121 | 18 | debit | 2009-12-10 00:00:00 | 120000 |
| 48 | 115 | 12 | debit | 2009-12-11 00:00:00 | 420000 |
+-----+-----+-----+-----+-----+-----+
14 rows in set (0.003 sec)

MariaDB [perbankan]>
```

TUGAS

- Nomor 1

```
MariaDB [perbankan]> select max(transaksi.jumlah) from (select jumlah from transaksi) transaksi;
+-----+
| max(transaksi.jumlah) |
+-----+
|          800000      |
+-----+
1 row in set (0.000 sec)

MariaDB [perbankan]>
```

- Nomor 2

```
MariaDB [perbankan]> select min(transaksi.jumlah) from (select jumlah from transaksi) transaksi;
+-----+
| min(transaksi.jumlah) |
+-----+
|          20000       |
+-----+
1 row in set (0.000 sec)

MariaDB [perbankan]>
```

- Nomor 3

```
MariaDB [perbankan]> select nasabah.id_nasabah, nasabah.nama_nasabah, transaksi.jumlah from transaksi JOIN nasabah ON na
sabah.id_nasabah=transaksi.id_nasabahFK where transaksi.jumlah IN(select max(jumlah)from transaksi);
+-----+-----+-----+
| id_nasabah | nama_nasabah | jumlah |
+-----+-----+-----+
|          14 | Candra Kirana | 800000 |
+-----+-----+-----+
1 row in set (0.001 sec)

MariaDB [perbankan]>
```

- Nomor 4

```
MariaDB [perbankan]> select*from cabang_bank where cabang_bank.kode_cabang NOT IN(select rekening.kode_cabangFK from rek
ening);
+-----+-----+-----+
| kode_cabang | nama_cabang | alamat_cabang |
+-----+-----+-----+
| BRUC       | Bank Rut Unit Cilacap | Jl. Rajawali 34 |
+-----+-----+-----+
1 row in set (0.001 sec)

MariaDB [perbankan]>
```

- Nomor 5

```
MariaDB [perbankan]> select no_rekening, saldo from rekening where saldo > (select AVG(saldo) from rekening);
+-----+-----+
| no_rekening | saldo |
+-----+-----+
|          104 | 900000 |
|          105 | 2000000 |
|          106 | 3000000 |
|          107 | 1000000 |
|          108 | 5000000 |
+-----+-----+
5 rows in set (0.000 sec)

MariaDB [perbankan]>
```

- Nomor 6

- a. Tampilkan saldo terbesar

```
MariaDB [perbankan]> select max(rekening.saldo) from (select saldo from rekening) rekening;
+-----+
| max(rekening.saldo) |
+-----+
|          5000000     |
+-----+
1 row in set (0.001 sec)
```

- b. Tampilkan saldo terkecil

```
MariaDB [perbankan]> select min(rekening.saldo) from (select saldo from rekening) rekening;
+-----+
| min(rekening.saldo) |
+-----+
|          0          |
+-----+
1 row in set (0.000 sec)

MariaDB [perbankan]>
```

c. Tampilkan data nasabah yang melakukan transaksi debit

```
MariaDB [perbankan]> select*from nasabah where nasabah.id_nasabah IN(select distinct transaksi.id_nasabahFK from transaksi where jenis_transaksi='debit');
```

id_nasabah	nama_nasabah	alamat_nasabah
1	Sutopo	Jl. Jendral Sudirman 12
2	Maryati	Jl. MT. Haryono 31
3	Suparman	Jl. Hasanudin 81
4	Kartika Padmasari	Jl. Manggis 15
5	Budi Eko Prayogo	Jl. Kantil 30
9	Canka Lokananta	Jl. Tidar 86
10	Budi Murtono	Jl. Merak 22
11	Ali Saputra	Jl. Anggur 11
12	Juli Ariawan	Jl. Mangga 17
13	Ahmad Ridwan	Jl. Rambutan 21
14	Candra Kirana	Jl. Durian 34
15	Riski Nurdiansyah	Jl. Apel 25
17	Zainal Fathoni	Jl. Manggis 44
18	Anggit Pratiwi	Jl. Matoa 13
19	Arsida Ulfa	Jl. Sawo 43
20	Fitri Dearlia	Jl. Apel 43

```
16 rows in set (0.000 sec)
```

d. Tampilkan data nasabah yang bertransaksi pada tanggal 18 November 2009

```
MariaDB [perbankan]> select*from nasabah where nasabah.id_nasabah IN (select transaksi.id_nasabahFK from transaksi where tanggal = "2009-11-18");
```

id_nasabah	nama_nasabah	alamat_nasabah
3	Suparman	Jl. Hasanudin 81

```
1 row in set (0.004 sec)
```

e. Tampilkan no rekening yang terdaftar di cabang BRUW

```
MariaDB [perbankan]> select no_rekening from rekening where kode_cabangFK IN(select kode_cabangFK from rekening where kode_cabangFK="BRUW");
```

no_rekening
113
116

```
2 rows in set (0.001 sec)
```

• Nomor 7

A. Daftar mahasiswa yang tidak mengambil matakuliah dengan id_matkul=2.

```
MariaDB [perkuliahan]> select * from mahasiswa where mahasiswa.nim NOT IN (select distinct nimFK from mahasiswa_has_matkul where id_matkulFK='2');
```

nim	nipFK	nama_mahasiswa	alamat_mahasiswa
22	1	Karin	Uranus
33	2	Yogik	Neptunus
44	3	Bambank	Ceres

```
3 rows in set (0.00 sec)
```

B. Daftar mahasiswa yang mengambil semua matakuliah yang diampu oleh satu dosen.

```
MariaDB [perkuliahan]> select mahasiswa.nim, mahasiswa.nama_mahasiswa from mahasiswa, mahasiswa_has_matkul, matkul where mahasiswa.nim=mahasiswa_has_matkul.nimFK AND matkul.id_matkul=mahasiswa_has_matkul.id_matkulFK and matkul.nipFK = (select nip from dosen where nip=3);
```

nim	nama_mahasiswa
22	Karin
33	Yogik

```
2 rows in set (0.11 sec)
```

C. memindahkan matkul yang diambil mahasiswa ke matkul lain.

```
MariaDB [perkuliahan]> update mahasiswa_has_matkul set id_matkulFK=3 where id_matkulFK = (select id_matkul from matkul where id_matkul=2);
Query OK, 1 row affected (0.44 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [perkuliahan]> select * from mahasiswa_has_matkul;
```

nimFK	id_matkulFK
11	1
11	3
22	3
33	1
33	3

```
5 rows in set (0.00 sec)
```

D. Update salah satu matkul yang digantikan oleh dosen lain.

```

MariaDB [perkuliahan]> update matkul set nipFK=1,dosen_pengampu="Budi" where nipFK=(select nip from dosen where nip=2);
Query OK, 1 row affected (0.73 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [perkuliahan]> select * from matkul;
+-----+-----+-----+-----+
| nama_matkul | nipFK | id_matkul | dosen_pengampu |
+-----+-----+-----+-----+
| Sejarah     | 1     | 1         | Budi            |
| Matematika  | 1     | 2         | Budi            |
| Bhs. Indo   | 3     | 3         | Bayu            |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

```

E. update matakuliah mahasiswa ke matakuliah yang lain.

```

MariaDB [perkuliahan]> update mahasiswa_has_matkul set id_matkulFK=2 where id_matkulFK = (select id_matkul from matkul where id_matkul=1);
Query OK, 2 rows affected (0.16 sec)
Rows matched: 2  Changed: 2  Warnings: 0

MariaDB [perkuliahan]> select * from mahasiswa_has_matkul;
+-----+-----+
| nimFK | id_matkulFK |
+-----+-----+
| 11    | 2           |
| 11    | 3           |
| 22    | 3           |
| 33    | 2           |
| 33    | 3           |
+-----+-----+
5 rows in set (0.00 sec)

```