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Kelas : A

Praktikum Sistem Basis Data modul 10

Langkah praktikum

No. 5

```
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 1
5	budi eko prayogo	Jl. kanti 30
9	canka lokananta	Jl. tidar 86

```
6 rows in set (0.33 sec)
```

No. 6

```
MariaDB [perbankan]> SELECT * FROM nasabah WHERE nasabah.id_nasabah NOT IN (select DISTINCT 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
12	kevin	Sukoharjo

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

No. 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 );
```

kode_cabang	nama_cabang	rata2
BRUY	Bank Rut Unit Yogyakarta	402500.0000

```
1 row in set (0.00 sec)
```

No. 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	200000
7	110	9	kredit	2009-11-15	150000
10	107	4	debit	2009-11-19	100000
11	103	2	debit	2009-11-19	100000
13	107	4	kredit	2009-11-20	200000
15	104	1	kredit	2009-11-22	100000
19	108	10	debit	2009-11-26	100000
21	103	2	kredit	2009-11-28	200000
22	105	3	kredit	2009-11-28	100000
27	103	2	kredit	0000-00-00	100000
28	102	5	kredit	0000-00-00	200000
29	109	7	debit	0000-00-00	100000
32	104	5	kredit	2009-12-06	80000
34	107	2	kredit	2009-12-17	90000

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

Tugas

No. 1

```
MariaDB [perbankan]> SELECT max(transaksi.jumlah)FROM(select jumlah from transaksi) transaksi;
```

max(transaksi.jumlah)
200000

```
1 row in set (0.10 sec)
```

No. 2

```
MariaDB [perbankan]> SELECT min(transaksi.jumlah)FROM(select jumlah from transaksi) transaksi;
```

min(transaksi.jumlah)
20000

```
1 row in set (0.00 sec)
```

No. 3

```
MariaDB [perbankan]> SELECT nasabah.id_nasabah, nasabah.nama_nasabah, transaksi.jumlah FROM transaksi JOIN nasabah ON nasabah.id_nasabah=transaksi.id_nasabahFK WHERE transaksi.jumlah IN(select max(jumlah) from transaksi);
```

id_nasabah	nama_nasabah	jumlah
1	sutopo	200000
4	kartika padmasari	200000
2	maryati	200000
5	budi eko prayogo	200000

```
4 rows in set (0.12 sec)
```

No. 4

```

MariaDB [perbankan]> SELECT * FROM cabang_bank WHERE cabang_bank.kode_cabang NOT IN(select rekening.kode_cabangFK from rekening);
+-----+-----+-----+
| kode_cabang | nama_cabang          | alamat_cabang          |
+-----+-----+-----+
| BRUW        | Bank Rut Unit Wonogiri | jalan A. yani no. 23 |
+-----+-----+-----+
1 row in set (0.05 sec)

```

No. 5

```

MariaDB [perbankan]> SELECT no_rekening, saldo FROM rekening WHERE saldo > (select AVG(saldo) from rekening);
+-----+-----+
| no_rekening | saldo |
+-----+-----+
|          101 | 500000 |
|          103 | 750000 |
|          104 | 900000 |
|          108 | 500000 |
|          110 | 550000 |
+-----+-----+
5 rows in set (0.01 sec)

```

No. 6

1). Menampilkan rata rata jumlah

```

MariaDB [perbankan]> SELECT avg(transaksi.jumlah)FROM(select jumlah from transaksi) transaksi;
+-----+
| avg(transaksi.jumlah) |
+-----+
|          76000.0000 |
+-----+
1 row in set (0.00 sec)

```

2). Menampilkan saldo terkecil

```

MariaDB [perbankan]> SELECT min(rekening.saldo)FROM(select saldo from rekening) rekening;
+-----+
| min(rekening.saldo) |
+-----+
|          0 |
+-----+
1 row in set (0.00 sec)

```

3). Menampilkan no rekening dan saldo

```
MariaDB [perbankan]> SELECT no_rekening, saldo FROM rekening WHERE saldo > (select min(saldo) from rekening);
```

no_rekening	saldo
101	500000
102	350000
103	750000
104	900000
105	200000
106	300000
107	100000
108	500000
110	550000
111	150000
112	300000
113	255000

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

4). Menampilkan saldo terbesar

```
MariaDB [perbankan]> SELECT avg(rekening.saldo)FROM(select saldo from rekening) rekening;
```

avg(rekening.saldo)
373461.5385

```
1 row in set (0.00 sec)
```

5).menampilkan id nasabah yang melakukan transaksi tanggal 2009 12 11

```
MariaDB [perbankan]> SELECT * FROM nasabah WHERE nasabah.id_nasabah IN (select transaksi.id_nasabahFK from transaksi where tanggal="2009-12-11");
```

id_nasabah	nama_nasabah	alamat_nasabah
3	suparman	Jl. hasanudin 81

```
1 row in set (0.00 sec)
```

No. 7

1). Daftar mahasiswa yang tidak mengambil mata kuliah

```
MariaDB [perkuliahan]> SELECT * FROM mahasiswa WHERE mahasiswa.NIM NOT IN(select distinct mahasiswa_NIM from mahasiswa has_mata_kuliah where mata_kuliah_kode_matkul="UMS40503");
```

NIM	nama_mahasiswa	alamat_mahasiswa
120	kevin	surakarta
121	riu	sukoharjo
122	rei	boyolali
124	res	srAGEN
125	aji	sukoharjo
126	indu	surabaya
127	toro	jakarta
128	mana	klaten
129	wewe	sukoharjo
130	dede	surakarta

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

2). Daftar mahasiswa yang mengambil semua mata kuliah yang diampu oleh salah satu dosen

```
MariaDB [perkuliahan]> SELECT mahasiswa.NIM, mahasiswa.nama_mahasiswa FROM mahasiswa, mahasiswa_has_mata_kuliah, mata_kuliah where mahasiswa.NIM=mahasiswa_has_mata_kuliah.mahasiswa_NIM AND mata_kuliah.kode_matkul=mahasiswa_has_mata_kuliah.mata_kuliah_kode_matkul and mata_kuliah.dosen_id_dosen =(select id_dosen from dosen where id_dosen=12126);
+-----+-----+
| NIM | nama_mahasiswa |
+-----+-----+
| 126 | indu            |
+-----+-----+
1 row in set (0.00 sec)
```

3). Memindahkan matkul yang diambil mahasiswa ke matkul lain

```
MariaDB [perkuliahan]> UPDATE mahasiswa_has_mata_kuliah set mata_kuliah_kode_matkul=4444 where mata_kuliah_kode_matkul= (select kode_matkul from mata_kuliah where kode_matkul="TIF40514");
Query OK, 1 row affected (0.11 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [perkuliahan]> SELECT * FROM mahasiswa_has_mata_kuliah;
+-----+-----+
| mata_kuliah_kode_matkul | mahasiswa_NIM |
+-----+-----+
| 4444                    | 130           |
| TIF40500                | 120           |
| TIF40501                | 121           |
| TIF40502                | 122           |
| TIF40504                | 124           |
| TIF40505                | 125           |
| TIF40510                | 126           |
| TIF40513                | 129           |
| UMS40503                | 123           |
| UMS40511                | 127           |
| UMS40512                | 128           |
+-----+-----+
11 rows in set (0.00 sec)
```

4). Update salah satu matkul yang digantikan oleh dosen yang lain

```
MariaDB [perkuliahan]> UPDATE mata_kuliah set dosen_id_dosen=1111 WHERE dosen_id_dosen=(select id_dosen from dosen where id_dosen=12123);
Query OK, 1 row affected (0.14 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [perkuliahan]> SELECT * FROM mata_kuliah;
+-----+-----+-----+
| kode_matkul | dosen_id_dosen | nama_matkul |
+-----+-----+-----+
| TIF40500    | 12131          | web statis  |
| TIF40501    | 12121          | algoritma   |
| TIF40502    | 12122          | web dinamis |
| TIF40504    | 12124          | basis data  |
| TIF40505    | 12125          | prak basis data |
| TIF40510    | 12126          | prak algo   |
| TIF40513    | 12129          | kemuhammadiyah |
| TIF40514    | 12130          | islam iptek |
| UMS40503    | 1111           | jaringan komputer |
| UMS40511    | 12127          | prak jarkom |
| UMS40512    | 12128          | pkp         |
+-----+-----+-----+
11 rows in set (0.00 sec)
```

5). Update matakuliah mahasiswa ke matakuliah yang lain

```
MariaDB [perkuliahan]> UPDATE mahasiswa_has_mata_kuliah set mata_kuliah_kode_matkul="TIF00000" WHERE mata_kuliah_kode_matkul = (select kode_matkul from mata_kuliah where kode_matkul="TIF40500") ;
Query OK, 1 row affected (0.14 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [perkuliahan]> SELECT * FROM mahasiswa_has_mata_kuliah;
```

mata_kuliah_kode_matkul	mahasiswa_NIM
4444	130
TIF00000	120
TIF40501	121
TIF40502	122
TIF40504	124
TIF40505	125
TIF40510	126
TIF40513	129
UMS40503	123
UMS40511	127
UMS40512	128

11 rows in set (0.00 sec)