

# Laporan Praktikum Sistem Basis Data

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Kelas : E  
Modul : 10 (SubQuery)

## Kegiatan Praktikum.

### Nomer 5.

```
C:\Windows\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 10.0.17134.765]
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C:\Users\LENOVO>cd/

C:\>cd c:\xampp\mysql\bin

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 198
Server version: 10.1.38-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_nasabah FROM transaksi WHERE jenis_transaksi = 'kredit');
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 1 | Sutopo | Jl. Jendral Sudirman 12 |
| 3 | Suparman | Jl. Hasanudin 81 |
| 4 | Kartika Padmasari | Jl. Manggis 15 |
| 5 | Budi Eko Prayogo | Jl. Kanti 30 |
| 9 | Canka Locananta | Jl. Tidar 86 |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

### Nomer 6.

```
MariaDB [perbankan]> SELECT * FROM nasabah WHERE nasabah.id_nasabah NOT IN (SELECT DISTINCT transaksi.id_nasabah FROM transaksi);
+-----+-----+-----+
| id_nasabah | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 6 | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 7 | Indri Hapsari | Jl. Sutoyo |
| 8 | Sani Murti | Jl. Pangandaran |
| 10 | Budi Murtono | Jl. Merak 22 |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

### Nomer 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_cabang GROUP BY cabang_bank.kode_cabang HAVING rata2 >= ALL (SELECT AVG (saldo) FROM rekening GROUP BY kode_cabang);
+-----+-----+-----+
| kode_cabang | nama_cabang | rata2 |
+-----+-----+-----+
| BRUM | Bank Rut Unit Magelang | 900000.0000 |
+-----+-----+-----+
1 row in set (0.00 sec)
```

### Nomer 8.

```
MariaDB [perbankan]> SELECT * FROM transaksi WHERE jumlah > (SELECT AVG(jumlah) FROM transaksi);
+-----+-----+-----+-----+-----+
| no_transaksi | id_nasabah | no_rekening | jenis_transaksi | tanggal | jumlah |
+-----+-----+-----+-----+-----+
| 6 | 1 | 104 | kredit | 2009-11-15 | 200000 |
| 7 | 9 | 110 | kredit | 2009-11-15 | 150000 |
| 10 | 4 | 107 | debit | 2009-11-19 | 100000 |
| 11 | 2 | 103 | debit | 2009-11-19 | 100000 |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

# TUGAS.

## Nomer 1.

```
MariaDB [perbankan]> use perkuliahan;
Database changed
MariaDB [perkuliahan]> SELECT mahasiswa.nim FROM mahasiswa, matkul, link_mahasiswa_matkul WHERE mahasiswa.nim=link_mahasiswa_matkul.nim AND matkul.kode_matkul=link_mahasiswa_matkul.kode_matkul AND mahasiswa.nim NOT IN (SELECT link_mahasiswa_matkul.nim FROM link_mahasiswa_matkul WHERE kode_matkul='TIF003') GROUP BY mahasiswa.nim;
+-----+
| nim |
+-----+
| L200150118 |
| L200150125 |
+-----+
2 rows in set (0.13 sec)

MariaDB [perkuliahan]> SELECT * FROM link_mahasiswa_matkul WHERE kode_matkul='TIF003';
+-----+-----+-----+
| nim | kode_matkul | nilai |
+-----+-----+-----+
| L200150083 | TIF003 | 70 |
| L200150088 | TIF003 | 80 |
| L200150099 | TIF003 | 70 |
| L200150112 | TIF003 | 70 |
| L200150113 | TIF003 | 70 |
| L200150117 | TIF003 | 70 |
| L200150123 | TIF003 | 85 |
| L200150127 | TIF003 | 94 |
| L200150128 | TIF003 | 78 |
| L200150129 | TIF003 | 88 |
| L200150144 | TIF003 | 70 |
| L200150146 | TIF003 | 90 |
| L200154001 | TIF003 | 90 |
+-----+-----+-----+
13 rows in set (0.00 sec)
```

## Nomer 2.

```
MariaDB [perkuliahan]> SELECT mahasiswa.nim, mahasiswa.nama FROM mahasiswa, link_mahasiswa_matkul, matkul WHERE mahasiswa.nim=link_mahasiswa_matkul.nim AND matkul.kode_matkul=link_mahasiswa_matkul.kode_matkul AND matkul.kode_matkul IN (SELECT kode_matkul FROM matkul WHERE kode_dosen='D001') GROUP BY mahasiswa.nim, mahasiswa.nama HAVING COUNT(matkul.kode_matkul)=(SELECT COUNT(kode_matkul) FROM matkul WHERE kode_dosen='D001');
+-----+-----+
| nim | nama |
+-----+-----+
| L200150083 | Diyan Bima Saputra |
| L200150088 | Khofa Prayoga |
| L200150099 | Purwantinah |
| L200150112 | Dwi Pratiwi Putri |
| L200150113 | Ismi Kamelia Najib Putri |
| L200150117 | Widiyarti Endang Saputri |
| L200150123 | Danindyia Puput Muliiana Putri |
| L200150125 | Indra Bayu Candra Gupta |
| L200150127 | Lyon |
| L200150128 | Sulthana Dzakira Drajat |
| L200150129 | Fendy |
| L200150144 | Sam'an Alghozy |
| L200150146 | Fakhrun Razi |
| L200154001 | Khilyatin Ulin Fitri |
+-----+-----+
14 rows in set (0.00 sec)
```

### Nomer 3.

```
MariaDB [perkuliahahan]> describe link_mahasiswa_matkul;
```

Field	Type	Null	Key	Default	Extra
nim	varchar(10)	NO	PRI	NULL	
kode_matkul	varchar(10)	NO	PRI	NULL	
nilai	int(11)	YES		NULL	

```
3 rows in set (0.01 sec)
```

```
MariaDB [perkuliahahan]> SELECT * FROM link_mahasiswa_matkul;
```

nim	kode_matkul	nilai
L200150083	TIF001	70
L200150083	TIF002	60
L200150083	TIF003	70
L200150083	TIF004	88
L200150083	TIF005	79
L200150088	TIF001	80
L200150088	TIF002	80
L200150088	TIF003	80
L200150088	TIF004	80
L200150088	TIF005	80
L200150088	TIF006	80
L200150088	TIF007	84
L200150088	TIF008	80
L200150088	TIF010	80
L200150099	TIF001	70
L200150099	TIF002	80
L200150099	TIF003	70
L200150099	TIF004	70
L200150099	TIF005	90
L200150099	TIF006	80
L200150099	TIF007	74
L200150099	TIF008	70
L200150099	TIF010	70
L200150112	TIF001	90
L200150112	TIF002	70
L200150112	TIF003	70
L200150112	TIF004	80
L200150112	TIF005	70

L200150112	TIF008	70
L200150112	TIF010	70
L200150113	TIF001	70
L200150113	TIF002	60
L200150113	TIF003	70
L200150113	TIF004	80
L200150113	TIF005	70
L200150113	TIF008	70
L200150113	TIF010	80
L200150117	TIF001	80
L200150117	TIF002	80
L200150117	TIF003	70
L200150117	TIF004	88
L200150117	TIF005	89
L200150117	TIF006	80
L200150117	TIF007	81
L200150118	TIF001	80
L200150118	TIF002	80
L200150118	TIF006	80
L200150118	TIF007	84
L200150118	TIF008	80
L200150118	TIF010	90
L200150123	TIF001	85
L200150123	TIF002	85
L200150123	TIF003	85
L200150123	TIF004	85
L200150123	TIF005	85
L200150123	TIF006	85
L200150123	TIF007	85
L200150123	TIF008	85
L200150123	TIF010	85
L200150125	TIF005	85
L200150125	TIF006	60
L200150125	TIF007	78
L200150125	TIF008	78
L200150125	TIF010	82
L200150127	TIF001	90
L200150127	TIF002	85
L200150127	TIF003	94
L200150127	TIF004	96
L200150127	TIF005	80
L200150127	TIF007	85
L200150127	TIF008	80
L200150127	TIF010	92

L200150127	TIF010	92
L200150128	TIF001	80
L200150128	TIF002	80
L200150128	TIF003	78
L200150128	TIF004	80
L200150128	TIF005	76
L200150128	TIF006	80
L200150128	TIF007	74
L200150128	TIF008	85
L200150128	TIF010	80
L200150129	TIF001	80
L200150129	TIF002	90
L200150129	TIF003	88
L200150129	TIF004	80
L200150129	TIF005	96
L200150129	TIF006	90
L200150129	TIF007	94
L200150129	TIF008	85
L200150129	TIF010	90
L200150144	TIF001	80
L200150144	TIF002	80
L200150144	TIF003	70
L200150144	TIF004	78
L200150144	TIF005	79
L200150144	TIF006	80
L200150144	TIF007	81
L200150146	TIF001	90
L200150146	TIF002	90
L200150146	TIF003	90
L200150146	TIF004	90
L200150146	TIF005	90
L200150146	TIF006	90
L200150146	TIF007	94
L200150146	TIF008	90
L200150146	TIF010	90
L200154001	TIF001	70
L200154001	TIF002	80
L200154001	TIF003	90
L200154001	TIF004	80
L200154001	TIF005	70
L200154001	TIF006	80
L200154001	TIF007	94
L200154001	TIF008	80
L200154001	TIF010	70

```
MariaDB [perkuliahahan]> UPDATE link_mahasiswa_matkul AS link SET link.kode_matkul='TIF010' WHERE link.nim IN(SELECT DISTINCT mahasiswa.nim FROM mahasiswa WHERE link.kode_matkul='TIF009');
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0  Changed: 0  Warnings: 0
```

```
MariaDB [perkuliahahan]> SELECT * FROM link_mahasiswa_matkul;
```

nim	kode_matkul	nilai
L200150083	TIF001	70
L200150083	TIF002	60
L200150083	TIF003	70
L200150083	TIF004	88
L200150083	TIF005	79
L200150088	TIF001	80
L200150088	TIF002	80
L200150088	TIF003	80
L200150088	TIF004	80
L200150088	TIF005	80
L200150088	TIF006	80
L200150088	TIF007	84
L200150088	TIF008	80
L200150088	TIF010	80
L200150099	TIF001	70
L200150099	TIF002	80
L200150099	TIF003	70
L200150099	TIF004	70
L200150099	TIF005	90
L200150099	TIF006	80
L200150099	TIF007	74
L200150099	TIF008	70
L200150099	TIF010	70
L200150112	TIF001	90
L200150112	TIF002	70
L200150112	TIF003	70
L200150112	TIF004	80
L200150112	TIF005	70
L200150112	TIF008	70
L200150112	TIF010	70
L200150113	TIF001	70

L200150113	TIF002	60
L200150113	TIF003	70
L200150113	TIF004	80
L200150113	TIF005	70
L200150113	TIF008	70
L200150113	TIF010	80
L200150117	TIF001	80
L200150117	TIF002	80
L200150117	TIF003	70
L200150117	TIF004	88
L200150117	TIF005	89
L200150117	TIF006	80
L200150117	TIF007	81
L200150118	TIF001	80
L200150118	TIF002	80
L200150118	TIF006	80
L200150118	TIF007	84
L200150118	TIF008	80
L200150118	TIF010	90
L200150123	TIF001	85
L200150123	TIF002	85
L200150123	TIF003	85
L200150123	TIF004	85
L200150123	TIF005	85
L200150123	TIF006	85
L200150123	TIF007	85
L200150123	TIF008	85
L200150123	TIF010	85
L200150125	TIF005	85
L200150125	TIF006	60
L200150125	TIF007	78
L200150125	TIF008	78
L200150125	TIF010	82
L200150127	TIF001	90
L200150127	TIF002	85
L200150127	TIF003	94
L200150127	TIF004	96
L200150127	TIF005	80
L200150127	TIF007	85
L200150127	TIF008	80
L200150127	TIF010	92
L200150128	TIF001	80
L200150128	TIF002	80
L200150128	TIF003	78

L200150128	TIF004	80
L200150128	TIF005	76
L200150128	TIF006	80
L200150128	TIF007	74
L200150128	TIF008	85
L200150128	TIF010	80
L200150129	TIF001	80
L200150129	TIF002	90
L200150129	TIF003	88
L200150129	TIF004	80
L200150129	TIF005	96
L200150129	TIF006	90
L200150129	TIF007	94
L200150129	TIF008	85
L200150129	TIF010	90
L200150144	TIF001	80
L200150144	TIF002	80
L200150144	TIF003	70
L200150144	TIF004	78
L200150144	TIF005	79
L200150144	TIF006	80
L200150144	TIF007	81
L200150146	TIF001	90
L200150146	TIF002	90
L200150146	TIF003	90
L200150146	TIF004	90
L200150146	TIF005	90
L200150146	TIF006	90
L200150146	TIF007	94
L200150146	TIF008	90
L200150146	TIF010	90
L200154001	TIF001	70
L200154001	TIF002	80
L200154001	TIF003	90
L200154001	TIF004	80
L200154001	TIF005	70
L200154001	TIF006	80
L200154001	TIF007	94
L200154001	TIF008	80
L200154001	TIF010	70

115 rows in set (0.00 sec)

MariaDB [perkuliahan]>