

## MODUL 7 (JOIN)

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KELAS : A

Langkah – langkah praktikum

```
XAMPP for Windows - mysql -u root -p

Setting environment for using XAMPP for Windows.
LABSI-18@LABSI-18-PC c:\xampp
# cd mysql/bin

LABSI-18@LABSI-18-PC c:\xampp\mysql\bin
# mysql -u root -p
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)

LABSI-18@LABSI-18-PC 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 187
Server version: 10.1.37-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 nama_cabang, alamat_cabang FROM cabang_bank ORDER BY
nama_cabang;
+-----+-----+
| nama_cabang | alamat_cabang |
+-----+-----+
| Bank Rut Unit Balikpapan | Jl. Keempat 11 |
| Bank Rut Unit Berau      | Jl. Ketujuh 14 |
| Bank Rut Unit Boyolali   | Jl. Ahmad Yani 45 |
| Bank Rut Unit Karanganyar | Jl. Tawangmangu 19 |
| Bank Rut Unit Kartasura  | Jl. Kesembilan 16 |
| Bank Rut Unit Klaten     | Jl. Suparman 23 |
| Bank Rut Unit Magelang   | Jl. P. Tendea 63 |
| Bank Rut Unit Pontianak  | Jl. Kedelapan 15 |
| Bank Rut Unit Samarinda  | Jl. Kelima 12 |
| Bank Rut Unit Sragen     | Jl. Pattimura 18 |
| Bank Rut Unit Sukoharjo  | Jl. Kesepuluh 17 |
| Bank Rut Unit Surakarta  | Jl. Slamet Riyadi 18 |
| Bank Rut Unit Tanjung Selor | Jl. Keenam 13 |
| Bank Rut Unit Tarakan    | Jl. Slamet Riyadi 22 |
| Bank Rut Unit Wonogiri   | Jl. Untung Suropati 12 |
| Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+
16 rows in set (0.00 sec)

MariaDB [perbankan]> SELECT no_rekening, pin, saldo FROM rekening ORDER BY saldo
DESC;
+-----+-----+-----+
| no_rekening | pin | saldo |
+-----+-----+-----+
| 108         | 0000 | 5000000 |
| 106         | 6666 | 3000000 |
| 115         | 1020 | 2500000 |
| 105         | 5555 | 2000000 |
| 117         | 8899 | 2000000 |
+-----+-----+-----+
```

MariaDB [perbankan]> SELECT no\_rekening, pin, saldo FROM rekening ORDER BY saldo DESC;

no_rekening	pin	saldo
108	0000	5000000
106	6666	3000000
115	1020	2500000
105	5555	2000000
117	8899	2000000
122	2200	2000000
107	7777	1000000
104	4444	900000
121	5500	900000
103	3333	750000
110	1234	550000
120	1144	500000
101	1111	500000
119	1010	400000
102	2222	350000
114	1212	300000
112	0123	300000
123	1997	300000
113	8888	255000
111	4321	150000
118	2233	120000
116	9911	100000
109	9999	0

23 rows in set (0.00 sec)

MariaDB [perbankan]> SELECT rekening.no\_rekening, nasabah.nama\_nasabah, nasabah. alamat\_nasabah FROM rekening, nasabah, nasabah\_has\_rekening WHERE nasabah.id\_nasabah= nasabah\_has\_rekening.id\_nasabahFK AND rekening.no\_rekening=nasabah\_has\_rekening.no\_rekeningFK, ORDER BY nasabah.nama\_nasabah;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'ORDER BY nasabah.nama\_nasabah' at line 1

MariaDB [perbankan]> SELECT rekening.no\_rekening, nasabah.nama\_nasabah, nasabah. alamat\_nasabah FROM rekening, nasabah, nasabah\_has\_rekening WHERE nasabah.id\_nasabah= nasabah\_has\_rekening.id\_nasabahFK AND rekening.no\_rekening=nasabah\_has\_rekening.no\_rekeningFK ORDER BY nasabah.nama\_nasabah;

no_rekening	nama_nasabah	alamat_nasabah
116	Bening	Jl. Agatis 10
102	Budi Eko Prayogo	Jl. Kantil 30
107	Budi Eko Prayogo	Jl. Kantil 30
108	Budi Martono	Jl. Merak 22
113	Budi Martono	Jl. Merak 22
119	Budi Martono	Jl. Merak 22
110	Canka Lokananta	Jl. Tidar 86
122	Danindya	Jl. Aki Balak 22
123	Danindya	Jl. Aki Balak 22
101	Kartika Padmasari	Jl. Manggis 15
107	Kartika Padmasari	Jl. Manggis 15

```
MariaDB [perbankan]> SELECT rekening.no_rekening, nasabah.nama_nasabah, nasabah.
alamat_nasabah FROM rekening, nasabah, nasabah_has_rekening WHERE nasabah.id_nas
abah= nasabah_has_rekening.id_nasabahFK AND rekening.no_rekening=nasabah_has_rek
ening.no_rekeningFK ORDER BY nasabah.nama_nasabah;
```

no_rekening	nama_nasabah	alamat_nasabah
116	Bening	Jl. Agatis 10
102	Budi Eko Prayogo	Jl. Kantil 30
107	Budi Eko Prayogo	Jl. Kantil 30
108	Budi Martono	Jl. Merak 22
113	Budi Martono	Jl. Merak 22
119	Budi Martono	Jl. Merak 22
110	Canka Lokananta	Jl. Tidar 86
122	Danindya	Jl. Aki Balak 22
123	Danindya	Jl. Aki Balak 22
101	Kartika Padmasari	Jl. Manggis 15
107	Kartika Padmasari	Jl. Manggis 15
118	Khatulistyawara	Jl. Ir. Soekarno 12
103	Maryati	Jl. MT Haryono 31
117	Muliana	Jl. Jend. Sudirman 97
115	Pandan Wangi	Jl. Imam Bonjol 20
114	Puput	Jl. AMD 10
121	Puput	Jl. AMD 10
120	Putri	Jl. Diponegoro 19
111	Sari Murti	Jl. Pangandaran 11
112	Sari Murti	Jl. Pangandaran 11
109	Satria Eka Jaya	Jl. Slamet Riyadi 45
105	Suparman	Jl. Hasanudin 81
106	Suparman	Jl. Hasanudin 81
104	Sutopo	Jl. Jendral Sudirman 12
109	Triandya	Jl. Sutoyo 5

25 rows in set (0.00 sec)

```
MariaDB [perbankan]> SELECT rekening.no_rekening, nasabah.nama_nasabah, rekening
.saldo FROM rekening, nasabah, nasabah_has_rekening WHERE nasabah.id_nasabah= na
sabah_has_rekening.id_nasabahFK AND rekening.no_rekening= nasabah_has_rekening.n
o_rekeningFK ORDER BY nasabah.nama_nasabah;
```

no_rekening	nama_nasabah	saldo
116	Bening	1000000
102	Budi Eko Prayogo	3500000
107	Budi Eko Prayogo	10000000
108	Budi Martono	50000000
113	Budi Martono	2550000
119	Budi Martono	4000000
110	Canka Lokananta	5500000
122	Danindya	20000000
123	Danindya	3000000
101	Kartika Padmasari	5000000
107	Kartika Padmasari	10000000
118	Khatulistyawara	1200000
103	Maryati	7500000
117	Muliana	20000000
115	Pandan Wangi	25000000

```
MariaDB [perbankan]> SELECT rekening.no_rekening, nasabah.nama_nasabah, rekening
.saldo FROM rekening, nasabah, nasabah_has_rekening WHERE nasabah.id_nasabah= na
sabah_has_rekening.id_nasabahFK AND rekening.no_rekening= nasabah_has_rekening.n
o_rekeningFK ORDER BY nasabah.nama_nasabah;
```

no_rekening	nama_nasabah	saldo
116	Bening	100000
102	Budi Eko Prayogo	350000
107	Budi Eko Prayogo	1000000
108	Budi Martono	5000000
113	Budi Martono	255000
119	Budi Martono	400000
110	Canka Lokananta	550000
122	Danindya	2000000
123	Danindya	300000
101	Kartika Padmasari	500000
107	Kartika Padmasari	1000000
118	Khatulistyawara	120000
103	Maryati	750000
117	Muliana	2000000
115	Pandan Wangi	2500000
114	Puput	300000
121	Puput	900000
120	Putri	500000
111	Sari Murti	150000
112	Sari Murti	300000
109	Satria Eka Jaya	0
105	Suparman	2000000
106	Suparman	3000000
104	Sutopo	900000
109	Triandya	0

25 rows in set (0.00 sec)

## TUGAS

```

C:\XAMPP for Windows - mysql -u root -p
MariaDB [perbankan]> SELECT nasabah.nama_nasabah, nasabah.alamat_nasabah, transaksi.jenis_transaksi, transaksi.jumlah FROM nasabah, transaksi WHERE nasabah.id_nasabah = transaksi.id_nasabahFK AND transaksi.jenis_transaksi='kredit' ORDER BY nasabah.nama_nasabah;
+-----+-----+-----+-----+
| nama_nasabah | alamat_nasabah | jenis_transaksi | jumlah |
+-----+-----+-----+-----+
| Budi Eko Prayogo | Jl. Kantil 30 | kredit | 300000 |
| Budi Eko Prayogo | Jl. Kantil 30 | kredit | 200000 |
| Budi Martono | Jl. Merak 22 | kredit | 130000 |
| Canka Lokananta | Jl. Tidar 86 | kredit | 150000 |
| Danindya | Jl. Aki Balak 22 | kredit | 25000 |
| Danindya | Jl. Aki Balak 22 | kredit | 50000 |
| Kartika Padmasari | Jl. Manggis 15 | kredit | 200000 |
| Kartika Padmasari | Jl. Manggis 15 | kredit | 20000 |
| Kartika Padmasari | Jl. Manggis 15 | kredit | 20000 |
| Maryati | Jl. MT Haryono 31 | kredit | 100000 |
| Maryati | Jl. MT Haryono 31 | kredit | 200000 |
| Pandan Wangi | Jl. Imam Bonjol 20 | kredit | 80000 |
| Pandan Wangi | Jl. Imam Bonjol 20 | kredit | 50000 |
| Puput | Jl. AMD 10 | kredit | 125000 |
| Puput | Jl. AMD 10 | kredit | 125000 |
| Puput | Jl. AMD 10 | kredit | 150000 |
| Puput | Jl. AMD 10 | kredit | 20000 |
| Putri | Jl. Diponegoro 19 | kredit | 50000 |
| Putri | Jl. Diponegoro 19 | kredit | 175000 |
| Suparman | Jl. Hasanudin 81 | kredit | 50000 |
| Suparman | Jl. Hasanudin 81 | kredit | 50000 |
| Suparman | Jl. Hasanudin 81 | kredit | 100000 |
| Sutopo | Jl. Jendral Sudirman 12 | kredit | 200000 |
| Sutopo | Jl. Jendral Sudirman 12 | kredit | 100000 |
+-----+-----+-----+-----+
24 rows in set (0.00 sec)

MariaDB [perbankan]>
MariaDB [perbankan]> SELECT rekening.no_rekening, nasabah.nama_nasabah, transaksi.jenis_transaksi, transaksi.jumlah FROM rekening, nasabah, transaksi WHERE nasabah.id_nasabah = transaksi.id_nasabahFK AND rekening.no_rekening = transaksi.no_rekeningFK AND transaksi.tanggal='2009-11-21' ORDER BY nasabah.nama_nasabah;
+-----+-----+-----+-----+
| no_rekening | nama_nasabah | jenis_transaksi | jumlah |
+-----+-----+-----+-----+
| 105 | Suparman | debit | 40000 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

MariaDB [perbankan]>

```

```

MariaDB [(none)]> use perbankan
Database changed
MariaDB [perbankan]> select rekening.no_rekening, nasabah.nama_nasabah, transaksi.jenis_transaksi, transaksi.jumlah from
rekening, nasabah, transaksi where nasabah.id_nasabah=transaksi.id_nasabahfk and transaksi.jumlah='20000' and rekening.
no_rekening=transaksi.no_rekeningfk;
+-----+-----+-----+-----+
| no_rekening | nama_nasabah | jenis_transaksi | jumlah |
+-----+-----+-----+-----+
| 101 | Kartika Padmasari | kredit | 20000 |
| 102 | Budi Eko Prayogo | debit | 20000 |
| 101 | Kartika Padmasari | kredit | 20000 |
| 102 | Budi Eko Prayogo | debit | 20000 |
| 110 | Canka Lokananta | debit | 20000 |
| 114 | Puput | kredit | 20000 |
+-----+-----+-----+-----+
6 rows in set (0.32 sec)

```

```

MariaDB [perbankan]> SELECT distinct rekening.no_rekening, nasabah.nama_nasabah, nasabah.alamat_nasabah FROM rekening, n
asabah, transaksi WHERE nasabah.id_nasabah = transaksi.id_nasabahFK AND rekening.no_rekening = transaksi.no_rekeningFK A
ND nasabah.nama_nasabah like 'Su%' ORDER BY nasabah.nama_nasabah;
+-----+-----+-----+
| no_rekening | nama_nasabah | alamat_nasabah |
+-----+-----+-----+
| 105 | Suparman | Jl. Hasanudin 81 |
| 106 | Suparman | Jl. Hasanudin 81 |
| 104 | Sutopo | Jl. Jendral Sudirman 12 |
+-----+-----+-----+
3 rows in set (0.00 sec)

```

```

Select XAMPP for Windows - mysql -u root -p

MariaDB [perbankan]> SELECT distinct no_rekening AS 'Nomor Rekening', nama_nasabah AS 'Nama Nasabah', jumlah AS 'Jumlah
Transaksi'
-> FROM rekening R, nasabah N, transaksi T
-> WHERE T.no_rekeningFK= R.no_rekening AND T.id_nasabahFK = N.id_nasabah AND T.jenis_transaksi = 'debit'
-> ORDER BY N.nama_nasabah;
+-----+-----+-----+
| Nomor Rekening | Nama Nasabah | Jumlah Transaksi |
+-----+-----+-----+
| 116 | Bening | 100000 |
| 102 | Budi Eko Prayogo | 20000 |
| 102 | Budi Eko Prayogo | 50000 |
| 119 | Budi Martono | 100000 |
| 108 | Budi Martono | 100000 |
| 110 | Canka Lokananta | 20000 |
| 123 | Danindya | 200000 |
| 122 | Danindya | 200000 |
| 107 | Kartika Padmasari | 100000 |
| 101 | Kartika Padmasari | 50000 |
| 118 | Khatulistyawara | 100000 |
| 118 | Khatulistyawara | 150000 |
| 118 | Khatulistyawara | 200000 |
| 103 | Maryati | 50000 |
| 103 | Maryati | 100000 |
| 103 | Maryati | 40000 |
| 117 | Muliana | 50000 |
| 105 | Suparman | 40000 |
| 105 | Suparman | 50000 |
| 106 | Suparman | 50000 |
| 104 | Sutopo | 50000 |
| 109 | Trianandya | 100000 |
+-----+-----+-----+
22 rows in set (0.00 sec)

```

## TUGAS TAMBAHAN

```
MariaDB [perbankan]> select*from nasabah natural join nasabah_has_rekening natural join rekening where nasabah.id_nasabah=nasabah_has_rekening.id_nasabahFK and nasabah_has_rekening.no_rekeningFK=rekening.no_rekening and rekening.kode_cabangFK='BRUSU' ORDER BY nasabah.nama_nasabah;
```

id_nasabah	nama_nasabah	alamat_nasabah	id_nasabahFK	no_rekeningFK	no_rekening	kode_cabangFK	pin	saldo
11	Danindy	Jl. Aki Balak 22	11	122	122	BRUSU	2200	2000000

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

```
MariaDB [perbankan]> select*from nasabah natural join nasabah_has_rekening natural join rekening where nasabah.id_nasabah=nasabah_has_rekening.id_nasabahFK and nasabah_has_rekening.no_rekeningFK=rekening.no_rekening and rekening.kode_cabangFK='BRUKA' ORDER BY nasabah.nama_nasabah;
```

id_nasabah	nama_nasabah	alamat_nasabah	id_nasabahFK	no_rekeningFK	no_rekening	kode_cabangFK	pin	saldo
10	Budi Martono	Jl. Merak 22	10	119	119	BRUKA	1010	400000

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

```
MariaDB [perbankan]> select*from nasabah natural join nasabah_has_rekening natural join rekening where nasabah.id_nasabah=nasabah_has_rekening.id_nasabahFK and nasabah_has_rekening.no_rekeningFK=rekening.no_rekening and rekening.kode_cabangFK='BRUBE' ORDER BY nasabah.nama_nasabah;
```

id_nasabah	nama_nasabah	alamat_nasabah	id_nasabahFK	no_rekeningFK	no_rekening	kode_cabangFK	pin	saldo
13	Muliana	Jl. Jend. Sudirman 97	13	117	117	BRUBE	8899	2000000

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

```
MariaDB [perbankan]> select*from nasabah natural join nasabah_has_rekening natural join rekening where nasabah.id_nasabah=nasabah_has_rekening.id_nasabahFK and nasabah_has_rekening.no_rekeningFK=rekening.no_rekening and rekening.kode_cabangFK='BRUTA' ORDER BY nasabah.nama_nasabah;
```

id_nasabah	nama_nasabah	alamat_nasabah	id_nasabahFK	no_rekeningFK	no_rekening	kode_cabangFK	pin	saldo
15	Bening	Jl. Agatis 10	15	116	116	BRUTA	9911	100000

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

```
MariaDB [perbankan]> select*from nasabah natural join nasabah_has_rekening natural join rekening where nasabah.id_nasabah=nasabah_has_rekening.id_nasabahFK and nasabah_has_rekening.no_rekeningFK=rekening.no_rekening and rekening.kode_cabangFK='BRUT' ORDER BY nasabah.nama_nasabah;
```

id_nasabah	nama_nasabah	alamat_nasabah	id_nasabahFK	no_rekeningFK	no_rekening	kode_cabangFK	pin	saldo
11	Danindy	Jl. Aki Balak 22	11	123	123	BRUT	1997	300000
17	Pandan Wangi	Jl. Imam Bonjol 20	17	115	115	BRUT	1020	2500000

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

```
MariaDB [perbankan]>
```