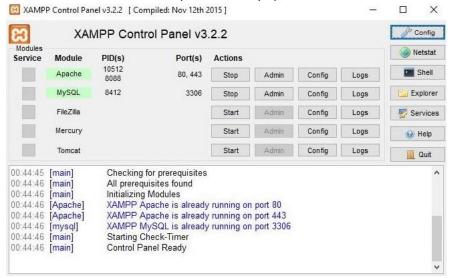
Nama : Guntur Jatmiko NIM : L200180039

Kelas : B

LAPRAK MODUL 5

Latihan

1. Buka XAMPP, lalu aktifkan server apache dan mysql,



2. setelah itu masuk ke cmd dan login sebagai root ke mysql

```
C:\Users\robby>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 8
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)]> __
```

3. tampilkan table database, lalu pilih/ masuk ke databse perbankan

4. kemudian masukan data yang diperintahkan insert table nasabah

```
MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(1, 'Sutopo',']1. Jendral Sudirman 12');
Query OK, 1 row affected (0.21 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(2, 'Maryati',']1. MT.Haryono 31');
Query OK, 1 row affected (0.13 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(3, 'Suparman',']1. Hasanudin 81');
Query OK, 1 row affected (0.10 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(4, 'Kartika Padmasari',']1. Manggis 15');
Query OK, 1 row affected (0.13 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(5, 'Budi Eko Prayogo',']1. Kantil 30');
Query OK, 1 row affected (0.17 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(6, 'Satria Eka Jaya',']1. Slamet Riyadi 45');
Query OK, 1 row affected (0.17 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(7, 'Indri Hapsari',']1. Sutoyo 5');
Query OK, 1 row affected (0.18 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(8, 'Sari Murti',']1. Pangandaran 11');
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(9, 'Canka Loknanta',']1. Tidar 86');
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)values(9, 'Canka Loknanta',']1. Merak 22');
Query OK, 1 row affected (0.16 sec)
```

insert table cabang_bank

```
EX Command Prompt-mysq -urost-p
MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUS','Bank Rut Unit Surakarta',']1. Slamet Riyadi 18');
Query OK, 1 row affected (8.10 sec)
MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUM','Bank Rut Unit Magelang',']1. P.Tendean 63');
Query OK, 1 row affected (8.10 sec)
MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUB','Bank Rut Unit Boyolali',']1. Ahmad Yani 45');
Query OK, 1 row affected (8.10 sec)
MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUK','Bank Rut Unit Klaten',']1. Suparman 23');
Query OK, 1 row affected (8.11 sec)
Query OK, 1 row affected (8.04 sec)
MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUY','Bank Rut Unit Yogyakarta',']1. Anggrek 21');
Query OK, 1 row affected (8.04 sec)
MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUW','Bank Rut Unit Wonogiri',']1. Untung Suropati 12');
Query OK, 1 row affected (8.06 sec)
MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)values('BRUW','Bank Rut Unit Wonogiri',']1. Untung Suropati 12');
Query OK, 1 row affected (8.06 sec)
MariaDB [perbankan]> insert into rekening(\(\frac{1}{2}\)values('');
```

insert table rekening

```
Query OK, 1 row affected (0.06 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(101,'BRUS',1111,500000);
ERROR 1054 (42522): Unknown column 'kode_cabang' in 'feld list'
MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(101,'BRUS',1111,500000);
Query OK, 1 row affected (0.12 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(102,'BRUS',2222,350000);
Query OK, 1 row affected (0.11 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(103,'BRUS',3333,750000);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(104,'BRUM',4444,900000);
Query OK, 1 row affected (0.17 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(105,'BRUM',55555,2000000);
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(106,'BRUS',6666,3000000);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(107,'BRUS',7777,1000000);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(108,'BRUS',9090,90);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(109,'BRUS',9090,90);
Query OK, 1 row affected (0.04 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(110,'BRUY',1234,550000);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(111,'BRUK',4321,150000);
Query OK, 1 row affected (0.15 sec)

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabang,pin,saldo)values(111,'BRUK',4321,150000);
Query OK, 1 row affected (0.15 sec)
```

insert table nasabah has rekening

```
Command Prompt - mysql -u root -p
HariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(2,103);
uery OK, 1 row affected (0.07 sec)
ariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(3,105);
wery OK, 1 row affected (0.16 sec)
ariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(4,106);
wery OK, 1 row affected (0.19 sec)
ariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(3,106);
wery OK, 1 row affected (0.16 sec)
lariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(4,101);
luery OK, 1 row affected (0.16 sec)
lariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(4,107);
Query OK, 1 row affected (0.15 sec)
ariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(5,102);
uery OK, 1 row affected (0.16 sec)
lariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(5,107);
tuery OK, 1 row affected (0.15 sec)
lariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(6,109);
luery OK, 1 row affected (0.10 sec)
lariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(7,109);
luery OK, 1 row affected (0.09 sec)
lariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(8,111);
luery OK, 1 row affected (0.15 sec)
ariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(9,110);
puery OK, 1 row affected (0.16 sec)
ariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(10,113);
wery OK, 1 row affected (0.10 sec)
lariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(8,112);
uery OK, 1 row affected (0.11 sec)
ariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)values(10,108);
uery OK, 1 row affected (0.07 sec)
```

insert table transaksi

```
riaDB [perbankan]>
```

5. Lakukan update untuk kasus berikut

Nasabah dengan nama "Indri Hapsari" pindah alamat ke "Jalan Slamet Riyadi No.34" Sebelum

```
MariaDB [perbankan]> update nasabah set alamat_nasabah='Jl. Slamet Riyadi 34' where nama_nasabah='Indri Hapsari';
Query OK, 1 row affected (0.13 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [perbankan]> select * from nasabah;

| 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. Slamet Riyadi 45 |
| 7 | Indri Hapsari | Jl. Slamet Riyadi 34 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Canka Loknanta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl. Merak 22 |

MariaDB [perbankan]> ____
```

Cabang dengan kode "BRUW" pindah ke alamat "Jalan A. Yani No.23" Sebelum

```
ariaDB [perbankan]> update cabang_bank set alamat_cabang='Jl. A. Yani 23' where kode_cabang='BRUW';
uery OK, 1 row affected (0.11 sec)
ows matched: 1 Changed: 1 Warnings: 0
                     | Bank Rut Unit Boyolali | Jl. Ahmad Yani 45
| Bank Rut Unit Klaten | Jl. Suparman 23
| Bank Rut Unit Magelang | Jl. P.Tendean 63
| Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18
| Bank Rut Unit Wonogiri | Jl. A. Yani 23
                      | Bank Rut Unit Yogyakarta | Jl. Anggrek 21
uery OK, 1 row affected (0.13 sec)
ows matched: 1 Changed: 1 Warnings: 0
                                                         Jl. MT.Haryono 31
Jl. Hasanudin 81
Jl. Manggis 15
Jl. Kantil 30
Jl. Slamet Riyadi 45
Jl. Slamet Riyadi 34
                     Budi Eko Prayogo
Satria Eka Jaya
               9 | Canka Loknanta
10 | Budi Murtono
0 rows in set (0.00 sec)
ariaDB [perbankan]> _
NariaDB [perbankan]> delete from nasabah where id_nasabah=7;
Query OK, 1 row affected (0.08 sec)
                                                                       Jl. MT.Haryono 31
Jl. Hasanudin 81
                                                                      Jl. Manggis 15
                                                                       Jl. Kantil 30
Jl. Slamet Riyadi 45
                            Budi Eko Prayogo
                            Satria Eka Jaya
                                                                      Jl. Pangandaran 11
Jl. Tidar 86
                   10 | Budi Murtono
                                                                      Jl. Merak 22
```

```
MariaDB [perbankan]> delete from cabang_bank where nama_cabang='Bank Rut Unit Magelang';
Query OK, 1 row affected (0.16 sec)

MariaDB [perbankan]> select * from cabang_bank;

| kode_cabang | nama_cabang | alamat_cabang |
| BRUB | Bank Rut Unit Boyolali | Jl. Ahmad Yani 45 |
| BRUK | Bank Rut Unit Klaten | Jl. Suparman 23 |
| BRUS | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUW | Bank Rut Unit Wonogiri | Jl. A. Yani 23 |
| BRUY | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
| tows in set (0.00 sec)

MariaDB [perbankan]> ____
```

Tugas

Tabel Nasabah

```
MariaDB [perbankan]> insert into nasabah(id_nasabah, nama_nasabah, alamat_nasabah) values (11,'Robby','Jl. Ledok 32'),(1
2,'Bobby','Jl. Ledok 36'),(13,'Novi','Jl. Anggrek 36'),(14,'Anto','Jl. Pedawang 77'),(15,'Vian','Jl. Kerawang 1'),(16,'T
ogok','Jl. Cempaka 12'),(17,'Suyek','Jl. Pagoda 124'),(18,'Kolonel','Jl. Utaera 124'),(19,'Jeki','Jl. Kerawang 19'),(20,
'Anggun','Jl. Yolanda 21');
'Query OK, 10 rows affected (0.004 sec)
Records: 10 Duplicates: 0 Warnings: 0
 MariaDB [perbankan]> select * from nasabah;
    id_nasabah | nama_nasabah
                                                                 | alamat nasabah
                             Sutopo
                                                                     Jl. Jendral Sudirman 12
                                                                     Jl. MT.Haryono 31
                             Maryati
                                                                    Jl. Hasanudin 81
Jl. Manggis 15
Jl. Kantil 30
Jl. Slamet Riyadi 45
                             Suparman
Kartika Padmasari
Budi Eko Prayogo
                              Satria Eka Jaya
                                                                    Jl. Pangandaran 11
Jl. Tidar 86
Jl. Merak 22
                     8 9
                             Sari Murti
                             Canka Loknanta
Budi Murtono
                    10
                             Robby
                                                                     Jl. Ledok 32
                             Bobby
                                                                     Jl. Ledok 36
                                                                     Jl. Anggrek 36
Jl. Pedawang 77
                    13
14
                             Novi
                             Anto
                                                                     Jl. Kerawang 1
Jl. Cempaka 12
                             Vian
                              Togok
                             Suyek
Kolonel
                                                                     Jl. Pagoda 124
                                                                     Jl. Utaera 124
                    18
                                                                     Jl. Kerawang 19
Jl. Yolanda 21
                    19
                             Jeki
                             Anggun
19 rows in set (0.000 sec)
```

Tabel cabang_bank

```
MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang) values('BRUA','Bank Rut Unit Ledok',
'Jl. Ledok 32'),('BRUC','Bank Rut Unit Kradenan','Jl. Mawar 33'),('BRUD','Bank Rut Unit Kraten','Jl. Ampera 67'),('BRUT',
'Bank Rut Unit Jati','Jl. Bae 98'),('BRUH','Bank Rut Unit Ploso','Jl. Perjuangan 77'),('BRUG','Bank Rut Unit Undaan','J
l. Kerten 12'),('BRUF','Bank Rut Unit Agung','Jl. Anggrek 38'),('BRUL','Bank Rut Unit Kesambi','Jl. Sudirman 42'),('BRUN
','Bank Rut Unit Perjuangan','Jl. Soeharto 412'),('BRUM','Bank Rut Unit Pati','Jl. Toto 23');
Query OK, 10 rows affected (0.003 sec)
Records: 10 Duplicates: 0 Warnings: 0
 lariaDB [perbankan]> select * from cabang_bank;
  kode_cabang | nama_cabang
                                                                                      | alamat_cabang
  BRUA
                                 Bank Rut Unit Ledok
                                                                                          Jl. Ledok 32
   BRUB
                                 Bank Rut Unit Boyolali
                                                                                          Jl. Ahmad Yani 45
                                 Bank Rut Unit Kradenan
   BRUC
                                                                                          Jl. Mawar 33
  BRUD
                                Bank Rut Unit Kraten
                                                                                          Jl. Ampera 67
                                Bank Rut Unit Agung
Bank Rut Unit Undaan
   BRUF
                                                                                          Jl. Anggrek 38
                                                                                          Jl. Kerten 12
Jl. Perjuangan 77
   BRUG
                                Bank Rut Unit Ploso
Bank Rut Unit Klaten
Bank Rut Unit Kesambi
Bank Rut Unit Pati
   BRUH
                                                                                          Jl. Suparman 23
Jl. Sudirman 42
   BRUK
   BRUL
                                                                                          J1. Toto 23
   BRUM
   BRUN
                                 Bank Rut Unit Perjuangan
                                                                                          Jl. Soeharto 412
                                                                                         Jl. Slamet Riyadi 18
Jl. Bae 98
Jl. A. Yani 23
Jl. Anggrek 21
                                Bank Rut Unit Surakarta
Bank Rut Unit Jati
Bank Rut Unit Wonogiri
   BRUS
   BRUT
   BRUW
                                 Bank Rut Unit Yogyakarta
   BRUY
15 rows in set (0.000 sec)
```

Tabel rekening

```
MariaDB [perbankan]> insert into rekening(no_rekening, kode_cabang, pin, saldo) values (114,'BRUA',2352,1000000),(115,'B
RUG',6357,2000000),(116,'BRUH',2352,1500000),(117,'BRUY',1516,4000000),(118,'BRUG',2353,2500000),(119,'BRUK',2938,500000
0),(120,'BRUS',7365,6000000),(121,'BRUH',4564,3500000),(122,'BRUA',2352,10000000),(123,'BRUA',3276,17000000);
Query OK, 10 rows affected (0.002 sec)
Records: 10 Duplicates: 0 Warnings: 0
MariaDB [perbankan]> select * from rekening;
  no_rekening | kode_cabang | pin | saldo
                                                                  500000
350000
                101
                           BRUS
                           BRUS
                102
                                                                   750000
                           BRUS
                104
                           BRUM
                                                   4444
                                                                   900000
                105
                           BRUM
                                                                 2000000
                                                                 3000000
1000000
                106
                           BRUS
                                                   6666
                107
                           BRUS
                                                   7777
0
                108
                                                                 5000000
                109
                           BRUB
                                                   9999
                110
111
                                                                   550000
                           BRUY
                                                  4321
123
                          BRUK
                                                                   150000
                           BRUK
                                                                   300000
                           BRUY
                                                   8888
                                                                   255000
                114
115
116
                           BRUA
                                                                 1000000
                                                                 2000000
                           BRUG
                                                  2352
1516
                           BRUH
                                                                 1500000
                           BRUY
                                                                 4000000
                                                   2353
2938
7365
                           BRUG
                                                                 2500000
                119
                           BRUK
                                                                 5000000
                120
                           BRUS
                                                                 6000000
                                                   4564
                           BRUH
                                                                 3500000
                           BRUA
                           BRUA
                                                   3276
                                                                 1700000
```

Tabel nasabah_has_rekening

MariaDB [perbankan]> select * from nasabah_has_rekening;		
†	 	
id_nasaban	no_rekening	
1	104	
1 2	103	
3	105	
3	106	
4	101	
4	106	
4	107	
5	102	
5	107	
6	109	
7	109	
8	111	
8	112	
9	110	
10	108	
10	113	
11	114	
12	115	
13	116	
14	117	
15	118	
16	119	
17	120	
18	121	
19	122	
20	123	
+		