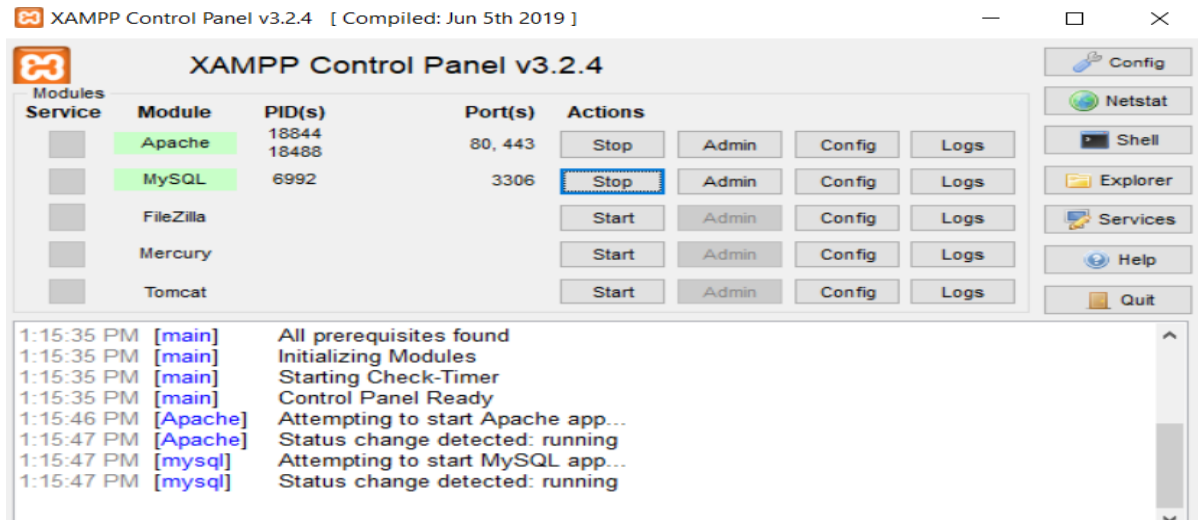


Nama : Oscar Satria Utama
NIM : L200180001
Kelas : A

MODUL 5

Praktikum Sistem Basis Data

1. Jalankan XAMPP Control Panel
2. Jalankan server Apache dan MySQL



3. Buka command prompt dan login sebagai root ke MySQL
4. Ketik "Use perbankan"
5. Masukkan data – data yang terdapat pada modul

```

Microsoft Windows [Version 10.0.17134.648]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\User>cd ../..

C:\>cd 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 38
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]> insert into nasabah(id_nasabah,nama_nasabah,alamat_nasabah)value
-> (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. kanti 30'),
-> (6,'Satria Eka Jaya','Jl. Slamet Riyadi 45'),
-> (7,'Indri Hapsari','Jl. Sutoyo 5'),
-> (8,'Sari Murti','Jl. Pangandaran 11'),
-> (9,'Canka Lokananta','Jl. Tidar 86'),
-> (10,'Budi Murtono','Jl.Merak 22');
Query OK, 10 rows affected (0.07 sec)
Records: 10  Duplicates: 0  Warnings: 0

MariaDB [perbankan]> insert into cabang_bank(kode_cabang,nama_cabang,alamat_cabang)value
-> ('BRUS','Bank Rut Unit Surakarta','Jl. Slamet Riyadi 18'),
-> ('BRUM','Bank Rut Unit Magelang','Jl. P.Tendean 63'),
-> ('BRUB','Bank Rut Unit Boyolali','Jl. Ahmad Yani 45'),
-> ('BRUK','Bank Rut Unit Klaten','Jl. Suparman 23'),
-> ('BRUY','Bank Rut Unit Yogyakarta','Jl. Anggrek 21'),
-> ('BRUW','Bank Rut Unit Wonogiri','Jl. Untung Suropati 12');
Query OK, 6 rows affected (0.07 sec)
Records: 6  Duplicates: 0  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. kanti 30 |
+-----+-----+-----+

```

```

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. kanti 30 |
| 6 | Satria Eka Jaya | Jl. Slamet Riyadi 45 |
| 7 | Indri Hapsari | Jl. Sutoyo 5 |
| 8 | Sari Murti | Jl. Pangandaran 11 |
| 9 | Canka Lokananta | Jl. Tidar 86 |
| 10 | Budi Murtono | Jl.Merak 22 |
+-----+-----+-----+
10 rows in set (0.00 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 |
| BRUM | Bank Rut Unit Magelang | Jl. P.Tendean 63 |
| BRUS | Bank Rut Unit Surakarta | Jl. Slamet Riyadi 18 |
| BRUW | Bank Rut Unit Wonogiri | Jl. Untung Suropati 12 |
| BRUY | Bank Rut Unit Yogyakarta | Jl. Anggrek 21 |
+-----+-----+-----+
6 rows in set (0.00 sec)

MariaDB [perbankan]> _

```

```

MariaDB [perbankan]> insert into rekening(no_rekening,kode_cabangFK,pin,saldo)value
-> (101,'BRUS','1111','500000'),
-> (102,'BRUS','2222','350000'),
-> (103,'BRUS','3333','750000'),
-> (104,'BRUM','4444','900000'),
-> (105,'BRUM','5555','2000000'),
-> (106,'BRUS','6666','3000000'),
-> (107,'BRUS','7777','1000000'),
-> (108,'BRUB','0000','5000000'),
-> (109,'BRUB','9999','0'),
-> (110,'BRUY','1234','550000'),
-> (111,'BRUK','4321','300000'),
-> (112,'BRUK','0123','300000'),
-> (113,'BRUY','8888','255000');
Query OK, 13 rows affected (0.06 sec)
Records: 13 Duplicates: 0 Warnings: 0

```

```

MariaDB [perbankan]> select * from rekening;
+-----+-----+-----+-----+
| no_rekening | kode_cabangFK | pin | saldo |
+-----+-----+-----+-----+
| 101 | BRUS | 1111 | 500000 |
| 102 | BRUS | 2222 | 350000 |
| 103 | BRUS | 3333 | 750000 |
| 104 | BRUM | 4444 | 900000 |
| 105 | BRUM | 5555 | 2000000 |
| 106 | BRUS | 6666 | 3000000 |
| 107 | BRUS | 7777 | 1000000 |
| 108 | BRUB | 0000 | 5000000 |
| 109 | BRUB | 9999 | 0 |
| 110 | BRUY | 1234 | 550000 |
| 111 | BRUK | 4321 | 300000 |
| 112 | BRUK | 0123 | 300000 |
| 113 | BRUY | 8888 | 255000 |
+-----+-----+-----+-----+
13 rows in set (0.00 sec)

```

```

MariaDB [perbankan]> _

```

```

(3,105)' at line 1
MariaDB [perbankan]> insert into nasabah_has_rekening(id_nasabahFK,no_rekeningFK)value
-> (1,104),
-> (2,103),
-> (3,105),
-> (3,106),
-> (4,101),
-> (4,107),
-> (5,102),
-> (5,107),
-> (6,109),
-> (7,109),
-> (8,111),
-> (9,110),
-> (10,113),
-> (8,112),
-> (10,108);
Query OK, 15 rows affected (0.07 sec)
Records: 15 Duplicates: 0 Warnings: 0

```

```

MariaDB [perbankan]> select * from nasabah_has_rekening;
+-----+-----+
| id_nasabahFK | no_rekeningFK |
+-----+-----+
| 1 | 104 |
| 2 | 103 |
| 3 | 105 |
| 3 | 106 |
| 4 | 101 |
| 4 | 107 |
| 5 | 102 |
| 5 | 107 |
| 6 | 109 |
| 7 | 109 |
| 8 | 111 |
| 8 | 112 |
| 9 | 110 |
| 10 | 108 |
| 10 | 113 |
+-----+-----+
15 rows in set (0.00 sec)

```

```

MariaDB [perbankan]> _

```

```

MariaDB [perbankan]> insert into transaksi (no_transaksi, no_rekeningFK, id_nasabahFK, jenis_transaksi, tanggal,
-> ('1', 105, 3, 'debit', '2009-11-10', '50000'),
-> ('2', 103, 2, 'debit', '2009-11-10', '40000'),
-> ('3', 101, 4, 'kredit', '2009-11-12', '20000'),
-> ('4', 106, 3, 'debit', '2009-11-13', '50000'),
-> ('5', 107, 5, 'kredit', '2009-11-13', '30000'),
-> ('6', 104, 1, 'kredit', '2009-11-15', '200000'),
-> ('7', 110, 9, 'kredit', '2009-11-15', '150000'),
-> ('8', 102, 5, 'debit', '2009-11-16', '20000'),
-> ('9', 105, 3, 'kredit', '2009-11-18', '50000'),
-> ('10', 107, 4, 'debit', '2009-11-19', '100000'),
-> ('11', 103, 2, 'debit', '2009-11-19', '100000'),
-> ('12', 104, 1, 'debit', '2009-11-19', '50000'),
-> ('13', 107, 4, 'kredit', '2009-11-20', '200000'),
-> ('14', 105, 3, 'debit', '2009-11-21', '40000'),
-> ('15', 104, 1, 'kredit', '2009-11-22', '100000'),
-> ('16', 101, 4, 'kredit', '2009-11-22', '20000'),
-> ('17', 103, 2, 'debit', '2009-11-22', '50000'),
-> ('18', 102, 5, 'debit', '2009-11-25', '50000'),
-> ('19', 108, 10, 'debit', '2009-11-26', '100000'),
-> ('20', 106, 3, 'kredit', '2009-11-27', '50000'),
-> ('21', 103, 2, 'kredit', '2009-11-28', '200000'),
-> ('22', 105, 3, 'kredit', '2009-11-28', '100000'),
-> ('23', 102, 5, 'debit', '2009-11-30', '20000'),
-> ('24', 104, 1, 'debit', '2009-12-1', '50000'),
-> ('25', 103, 2, 'debit', '2009-12-2', '40000'),
-> ('26', 101, 4, 'debit', '2009-12-4', '50000'),
-> ('27', 103, 2, 'kredit', '2009-12-5', '100000'),
-> ('28', 102, 5, 'kredit', '2009-12-5', '200000'),
-> ('29', 109, 7, 'debit', '2009-12-5', '100000'),
-> ('30', 110, 9, 'debit', '2009-12-6', '20000');
Query OK, 30 rows affected (0.09 sec)
Records: 30 Duplicates: 0 Warnings: 0

MariaDB [perbankan]> select * from transaksi;
+-----+-----+-----+-----+-----+-----+
| no_transaksi | id_nasabahFK | no_rekeningFK | jenis_transaksi | tanggal | jumlah |
+-----+-----+-----+-----+-----+-----+
| 1 | 3 | 105 | debit | 2009-11-10 00:00:00 | 50000 |
| 2 | 2 | 103 | debit | 2009-11-10 00:00:00 | 40000 |
| 3 | 4 | 101 | kredit | 2009-11-12 00:00:00 | 20000 |
| 4 | 3 | 106 | debit | 2009-11-13 00:00:00 | 50000 |
| 5 | 5 | 107 | kredit | 2009-11-13 00:00:00 | 30000 |
| 6 | 1 | 104 | kredit | 2009-11-15 00:00:00 | 200000 |
| 7 | 9 | 110 | kredit | 2009-11-15 00:00:00 | 150000 |
| 8 | 5 | 102 | debit | 2009-11-16 00:00:00 | 20000 |
| 9 | 3 | 105 | kredit | 2009-11-18 00:00:00 | 50000 |
| 10 | 4 | 107 | debit | 2009-11-19 00:00:00 | 100000 |
| 11 | 2 | 103 | debit | 2009-11-19 00:00:00 | 100000 |
| 12 | 1 | 104 | debit | 2009-11-19 00:00:00 | 50000 |
| 13 | 4 | 107 | kredit | 2009-11-20 00:00:00 | 200000 |
| 14 | 3 | 105 | debit | 2009-11-21 00:00:00 | 40000 |

```

6. Melakukan update

```

MariaDB [perbankan]> UPDATE nasabah SET alamat_nasabah = 'Jl.Slamet riyadi 34'
-> where nama_nasabah = 'Indri Hapsari';
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0

MariaDB [perbankan]> UPDATE cabang_bank
-> set alamat_cabang = 'Jl. Ahmad Yani 23'
-> where kode_cabang = 'BRUW';
Query OK, 1 row affected (0.06 sec)
Rows matched: 1 Changed: 1 Warnings: 0

```

7. Melakukan penghapusan data

```

MariaDB [perbankan]> DELETE from nasabah
-> where id_nasabah =7;
Query OK, 1 row affected (0.05 sec)

MariaDB [perbankan]> DELETE from cabang_bank
-> where nama_cabang = 'Bank Rut Unit Magelang';
Query OK, 1 row affected (0.04 sec)

```

