

# LAPORAN PRAKTIKUM 7

## SISTEM BASIS DATA



Disusun Oleh :

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PROGRAM STUDI SISTEM INFORMASI  
FAKULTAS SAINS DAN TEKNOLOGI TERAPAN  
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1. Cek IP pada komputer sendiri dan komputer partner praktikum, IP Komputer saya adalah 10.1.32.30 dan IP Komputer partner praktikum saya adalah 10.1.32.128 :

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.18363.1556]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\multimedia>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

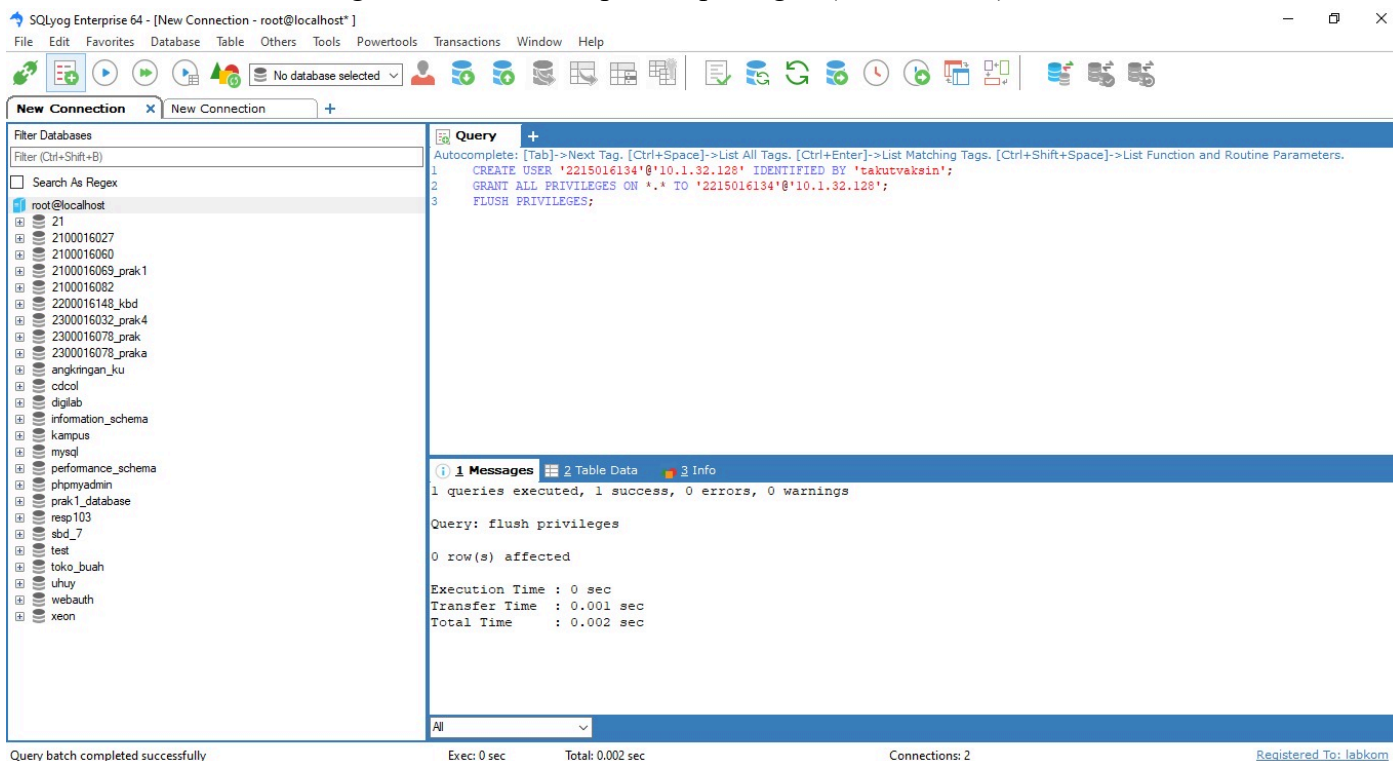
    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::919c:6b92:7c73:b551%5
    IPv4 Address. . . . . : 10.1.32.30
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.1.32.1

C:\Users\multimedia>ping 10.1.32.128

Pinging 10.1.32.128 with 32 bytes of data:
Reply from 10.1.32.128: bytes=32 time<1ms TTL=128
Reply from 10.1.32.128: bytes=32 time<1ms TTL=128

Ping statistics for 10.1.32.128:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
Control-C
^C
C:\Users\multimedia>
```

2. Jangan lupa hidupkan mysql dan apache, pada localhost login menggunakan root dan buat user baru untuk host 10.1.30.128 dengan nama user nim partner pasangan (2215016134) :



SQLyog Enterprise 64 - [New Connection - root@localhost\*]

File Edit Favorites Database Table Others Tools Powertools Transactions Window Help

No database selected

New Connection x New Connection +

Filter Databases

Filter (Ctrl+Shift+B)

Search As Regex

root@localhost

- 21
- 2100016027
- 2100016060
- 2100016069\_prak1
- 2100016082
- 2200016148\_kbd
- 2300016032\_prak4
- 2300016078\_prak
- 2300016078\_praka
- anggaran\_ku
- cdcol
- digilab
- information\_schema
- kampus
- mysql
- performance\_schema
- phpmyadmin
- prak1\_database
- resp103
- sbd\_7
- test
- toko\_buah
- uhuy
- webauth
- xeon

Query

Autocomplete: [Tab]->Next Tag. [Ctrl+Space]->List All Tags. [Ctrl+Enter]->List Matching Tags. [Ctrl+Shift+Space]->List Function and Routine Parameters.

```
1 CREATE USER '2215016134'@'10.1.32.128' IDENTIFIED BY 'takutvaksin';
2 GRANT ALL PRIVILEGES ON *.* TO '2215016134'@'10.1.32.128';
3 FLUSH PRIVILEGES;
```

1 Messages 2 Table Data 3 Info

1 queries executed, 1 success, 0 errors, 0 warnings

Query: flush privileges

0 row(s) affected

Execution Time : 0 sec  
Transfer Time : 0.001 sec  
Total Time : 0.002 sec

All

Query batch completed successfully Exec: 0 sec Total: 0.002 sec Connections: 2 Registered To: labkom

3. Pastikan partner praktikum telah menambahkan menambahkan user pada root localhostnya, login ke mysql dengan mengisi host dengan IP Komputer partner praktikum(10.1.32.128) dan mengisi

username dengan user yang telah dibuatkan oleh partner praktikum(2215016135) :

```
# mysql -h 10.1.32.128 -u 2215016135 -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 13
Server version: 5.6.21 MySQL Community Server (GPL)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| 21 |
| 2100016060 |
| 2100016069_prak1 |
| 2100016082 |
| 2200016099_kbd |
| 2300016083_prak |
| 2300016123_prak2 |
| 2300016132_prak |
| alienz_prakt7 |
| angkringan_ku |
| cdcol |
| kampus |
| mahasiswa |
| mysql |
| performance_schema |
| phpmyadmin |
| prak1_database |
| sbd_7 |
| test |
| toko_buah |
| uhuy |
| webauth |
+-----+
```

#### 4. Buat database baru dan isikan data ke dalam tabel-tabel tersebut :

The screenshot shows the SQLyog Enterprise 64 interface. On the left, the 'Filter Databases' pane lists various databases, including '2215016135@10.1.32.128'. The main query editor on the right contains the following SQL code:

```
1 CREATE DATABASE alienz_prakt7;
2 USE alienz_prakt7;
3 CREATE TABLE dosen(id_dosen INT PRIMARY KEY, nama_dosen VARCHAR(100), alamat TEXT, telepon VARCHAR(20));
4 CREATE TABLE mahasiswa(id_mahasiswa INT PRIMARY KEY, nama VARCHAR(100), alamat TEXT, tanggal_lahir DATE);
5 CREATE TABLE matakuliah(id_matakuliah INT PRIMARY KEY, nama_matakuliah VARCHAR(100), sks INT, id_dosen INT,
6 FOREIGN KEY(id_dosen) REFERENCES dosen(id_dosen));
7 CREATE TABLE pendaftaran(id_mahasiswa INT, id_matakuliah INT, tanggal_pendaftaran DATE,
8 FOREIGN KEY(id_mahasiswa) REFERENCES mahasiswa(id_mahasiswa), FOREIGN KEY(id_matakuliah) REFERENCES matakuliah(id_matakuliah));
9
10
11 INSERT INTO dosen VALUES
12 (1, 'John Doe', '123 Main St, City', '555-1234'),
13 (2, 'Jane Smith', '456 Elm St, Town', '555-5678'),
14 (3, 'Michael Johnson', '789 Oak St, Village', '555-9101');
15
16 INSERT INTO mahasiswa VALUES
17 (101, 'Taufan Ali', '321 Pine St, City', '2000-03-15'),
18 (102, 'Zauro', '654 Cedar St, Town', '1999-07-20'),
19 (103, 'Carol White', '987 Maple St, Village', '2001-01-10');
20
21 INSERT INTO matakuliah (id_matakuliah, nama_matakuliah, sks, id_dosen) VALUES
22 (201, 'Mathematics', 3, 1),
23 (202, 'Physics', 4, 2),
24 (203, 'Chemistry', 3, 3);
25
26 INSERT INTO pendaftaran (id_mahasiswa, id_matakuliah, tanggal_pendaftaran) VALUES
27 (101, 201, '2024-05-28'),
28 (102, 201, '2024-05-28'),
29 (103, 203, '2024-05-28');
```

#### 5. Lakukan pengecekan pada tabel yang telah dibuat :

```
mysql> use alienz_prakt7;
Database changed
mysql> select * from pendaftaran;
+-----+-----+-----+
| id_mahasiswa | id_matakuliah | tanggal_pendaftaran |
+-----+-----+-----+
| 101          | 201           | 2024-05-28           |
| 102          | 201           | 2024-05-28           |
| 103          | 203           | 2024-05-28           |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from mahasiswa;
+-----+-----+-----+-----+
| id_mahasiswa | nama          | alamat                | tanggal_lahir |
+-----+-----+-----+-----+
| 101          | Taufan Ali   | 321 Pine St, City    | 2000-03-15    |
| 102          | Zauro        | 654 Cedar St, Town   | 1999-07-20    |
| 103          | Carol White  | 987 Maple St, Village | 2001-01-10    |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```