

Samuel Lobongtang
Basis Data

```
C:\Windows\system32\cmd.exe - mysql -u root -p

MariaDB [db_polinema]> ALTER TABLE dosen ADD alamat varchar(50);
Query OK, 0 rows affected (0.101 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [db_polinema]> ALTER TABLE mahasiswa ADD agama varchar(10);
Query OK, 0 rows affected (0.116 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [db_polinema]> INSERT INTO prodi (kode_prodi, nama_prodi) VALUES ('MI-1A', 'Manajemen Infomatika');
Query OK, 1 row affected (0.054 sec)

MariaDB [db_polinema]> INSERT INTO mahasiswa (nim, nama_mhs, jenis_kelamin, alamat, kota, asal_sma, no_hp, umur, kode_prodi, agama) VALUES (2231750015, 'Iqbal Maulana', 'L', 'Perum. Barisan Indah', 'Sampang', 'SMA Negeri 1 Sampang', '081336099595', 20, 'MI-1A', 'Islam');
Query OK, 1 row affected, 1 warning (0.078 sec)

MariaDB [db_polinema]> INSERT INTO mata_kuliah (mk_id, nama_mk, jumlah_jam, sks) VALUES ('BD001', 'Basis Data', 5, 4);
Query OK, 1 row affected (0.077 sec)

MariaDB [db_polinema]> INSERT INTO ruang (ruang_id, nama_ruang, kapasitas) VALUES ('A01', 'Ruangan A', 30);
Query OK, 1 row affected (0.081 sec)

MariaDB [db_polinema]> INSERT INTO dosen (nidn, nama_dosen, status, jenis_kelamin, no_hp, alamat) VALUES (1234567890, 'Dr. John Doe', 'PNS', 'L', '081234567890', 'Jl. P rof. Sudarto No. 22');
Query OK, 1 row affected (0.080 sec)

MariaDB [db_polinema]> SHOW TABLES;
+-----+
| Tables_in_db_polinema |
+-----+
| dosen                  |
| mahasiswa              |
| mata_kuliah            |
| prodi                  |
| ruang                  |
+-----+
5 rows in set (0.001 sec)

MariaDB [db_polinema]> _
```

```
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+-----+
| Tables_in_db_polinema |
+-----+
| dosen                  |
| mahasiswa              |
| mata_kuliah            |
| prodi                  |
| ruang                  |
+-----+
5 rows in set (0.001 sec)

MariaDB [db_polinema]> SELECT * FROM mahasiswa;
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| nim | nama_mhs | jenis_kelamin | alamat | kota | asal_sma | no_hp | umur | kode_prodi | agama |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 2147483647 | Iqbal Maulana | L | Perum. Barisan Indah | Sampang | SMA Negeri 1 Sampang | 081336099595 | 20 | MI-1A | Islam |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.019 sec)

MariaDB [db_polinema]> _
```

```
C:\Windows\system32\cmd.exe - mysql -u root -p
root@localhost:~# mysql -u root -p
Enter password:
Query OK, 1 row affected (0.000 sec)

MariaDB [db_polinema]> SHOW TABLES;
+-----+
| Tables_in_db_polinema |
+-----+
| dosen                  |
| mahasiswa              |
| mata_kuliah             |
| prodi                   |
| ruang                   |
+-----+
5 rows in set (0.001 sec)

MariaDB [db_polinema]> SELECT * FROM mahasiswa;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| nim      | nama_mhs | jenis_kelamin | alamat      | kota      | asal_sma | no_hp      | umur | kode_prodi | agama |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 2147483647 | Iqbal Maulana | L             | Perum. Barisan Indah | Sampang   | SMA Negeri 1 Sampang | 081336099595 | 20   | MI-1A      | Islam |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.019 sec)

MariaDB [db_polinema]> DESC mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nim        | int(8)    | NO   | PRI | NULL    |       |
| nama_mhs   | char(50)  | YES  |     | NULL    |       |
| jenis_kelamin | enum('L','P') | YES  |     | L       |       |
| alamat     | varchar(50) | YES  |     | NULL    |       |
| kota       | varchar(20) | YES  |     | malang  |       |
| asal_sma   | char(30)  | YES  |     | NULL    |       |
| no_hp      | varchar(12) | YES  |     | NULL    |       |
| umur       | int(11)   | YES  |     | NULL    |       |
| kode_prodi | char(6)    | YES  | MUL | NULL    |       |
| agama      | varchar(10) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.018 sec)

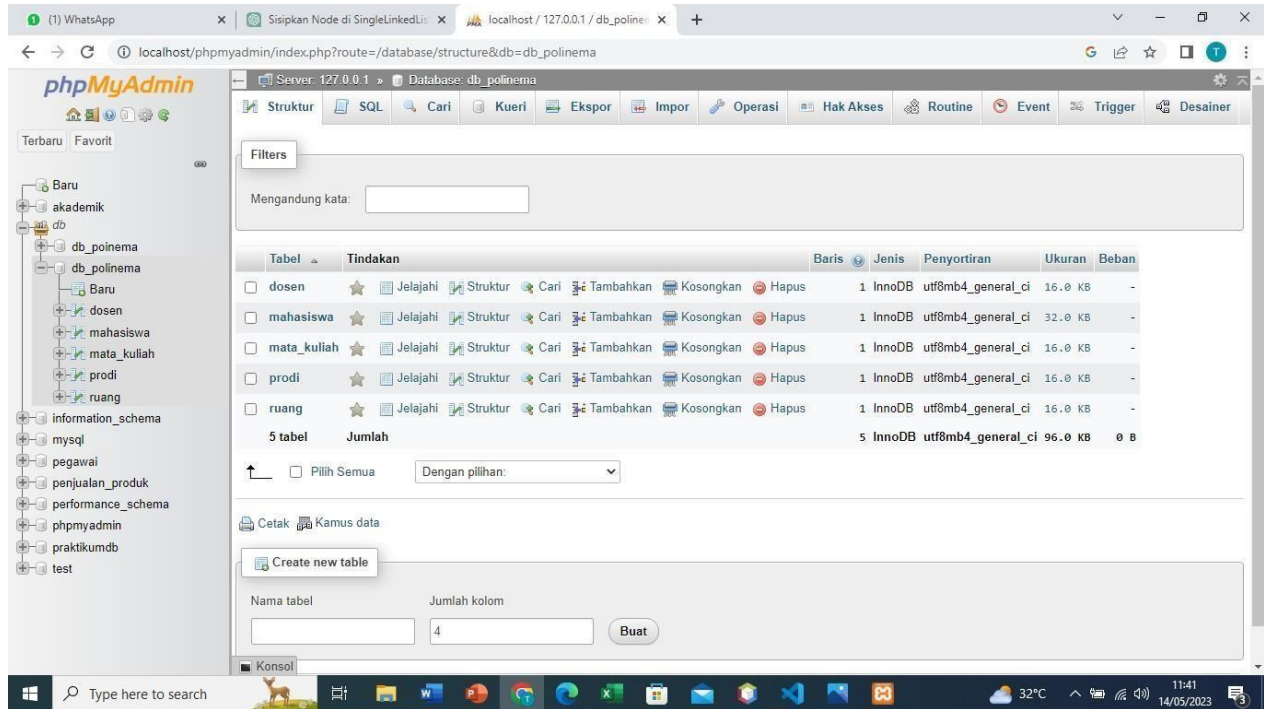
MariaDB [db_polinema]>
```

```
Select C:\Windows\system32\cmd.exe - mysql -u root -p
root@localhost:~# mysql -u root -p
Enter password:
Query OK, 0 rows affected (0.146 sec)
Records: 0 Duplicates: 0 Warnings: 0

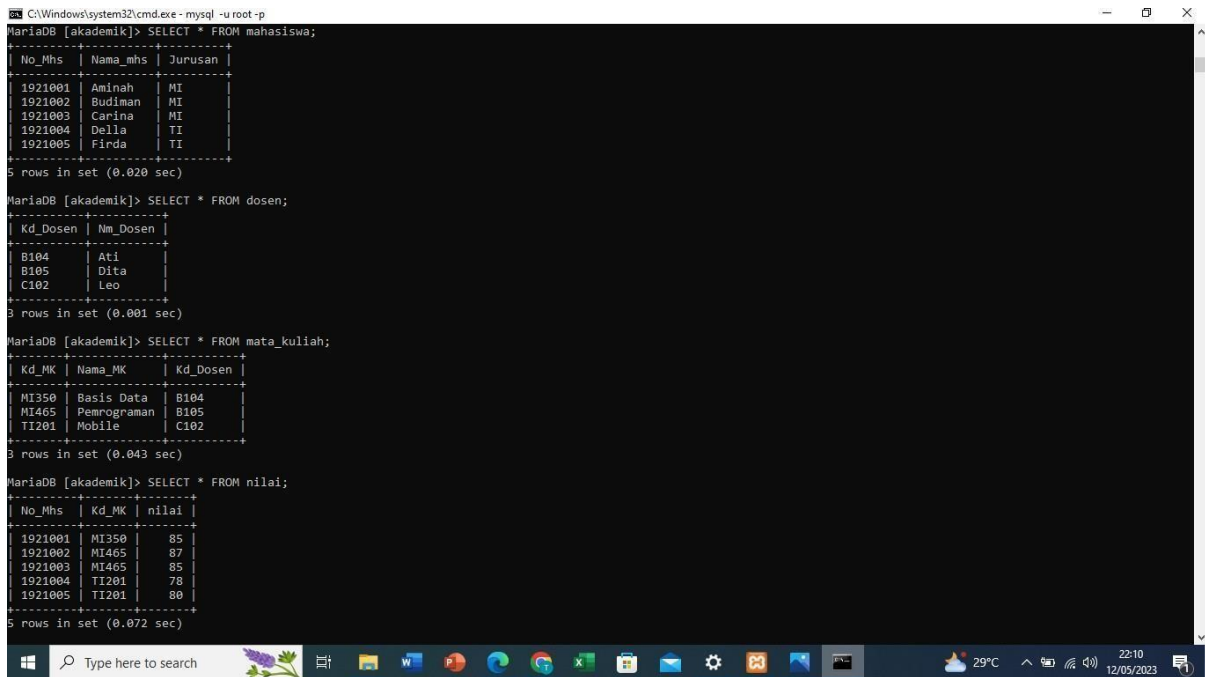
MariaDB [db_polinema]> DESC mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nim        | int(8)    | NO   | PRI | NULL    |       |
| nama_mhs   | char(50)  | YES  |     | NULL    |       |
| jenis_kelamin | enum('L','P') | YES  |     | L       |       |
| alamat     | varchar(50) | YES  |     | NULL    |       |
| kota       | varchar(20) | YES  |     | malang  |       |
| no_hp      | varchar(12) | YES  |     | NULL    |       |
| umur       | int(11)   | YES  |     | NULL    |       |
| kode_prodi | char(6)    | YES  | MUL | NULL    |       |
| agama      | varchar(10) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.017 sec)

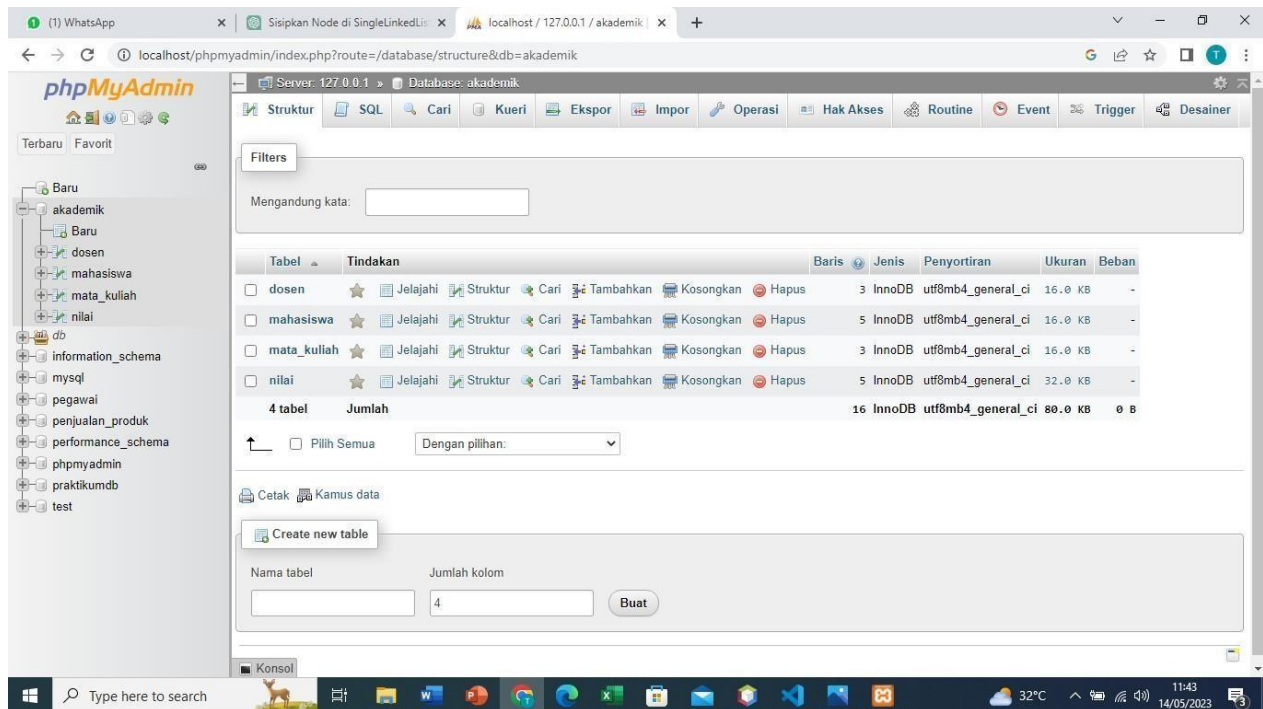
MariaDB [db_polinema]> SELECT * FROM mahasiswa;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| nim      | nama_mhs | jenis_kelamin | alamat      | kota      | no_hp      | umur | kode_prodi | agama |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 2147483647 | Iqbal Maulana | L             | Perum. Barisan Indah | Sampang   | 081336099595 | 20   | MI-1A      | Islam |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)

MariaDB [db_polinema]>
```



Tugas 1





Tugas 2

```

C:\Windows\system32\cmd.exe - mysql -u root -p

MariaDB [pegawai]> SELECT * FROM Pegawai;
+-----+-----+-----+
| Nopegawai | NamaPegawai | Golongan |
+-----+-----+-----+
| Peg01     | Anton      | A        |
| Peg02     | Paula     | B        |
| Peg03     | Danian     | C        |
| Peg04     | Lubis     | C        |
| Peg05     | Anton     | A        |
| Peg06     | Koko      | C        |
| Peg07     | Keni      | B        |
| Peg08     | Sofi      | B        |
| Peg09     | Yuni      | C        |
| Peg12     | Silta     | B        |
| Peg14     | Yusni     | B        |
| Peg15     | Udin      | D        |
| Peg16     | Didit     | D        |
| Peg17     | Dani      | D        |
+-----+-----+-----+
14 rows in set (0.001 sec)

MariaDB [pegawai]> SELECT * FROM Golongan;
+-----+-----+
| Golongan | BesarGaji |
+-----+-----+
| A        | 1000000   |
| B        | 900000    |
| C        | 750000    |
| D        | 500000    |
+-----+-----+
4 rows in set (0.000 sec)

MariaDB [pegawai]> SELECT * FROM Proyek;
+-----+-----+
| Noprojek | NamaProyek |
+-----+-----+
| NP001    | BRR        |
| NP002    | PEMDA      |
| NP003    | CBR        |
| NP004    | ASK        |
| NP005    | OB         |
+-----+-----+
5 rows in set (0.000 sec)

```

```
C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [pegawai]> SELECT * FROM Proyekpegawai;
```

No proyek	No pegawai
NP001	Peg01
NP001	Peg02
NP001	Peg06
NP002	Peg01
NP002	Peg12
NP002	Peg14
NP003	Peg02
NP003	Peg03
NP003	Peg04
NP004	Peg07
NP004	Peg08
NP004	Peg06
NP005	Peg15
NP005	Peg16
NP005	Peg17

```
15 rows in set (0.000 sec)

MariaDB [pegawai]> _
```

phpMyAdmin interface showing the database structure for the 'pegawai' database. The left sidebar shows the database hierarchy: Baru, akademik, db, information_schema, mysql, pegawai, penjualan_produk, performance_schema, phpmyadmin, praktikumdb, test.

The main area displays the 'Database: pegawai' structure. It lists four tables: golongan, pegawai, proyek, and proyekpegawai. Each table has a 'Tindakan' (Actions) column with icons for viewing, structure, search, insert, update, delete, and other operations. The 'Jumlah' (Count) column shows the number of rows in each table.

Tabel	Tindakan	Baris	Jenis	Penyortiran	Ukuran	Beban
golongan	[Icons]	4	InnoDB	utf8mb4_general_ci	16.0 KB	-
pegawai	[Icons]	14	InnoDB	utf8mb4_general_ci	16.0 KB	-
proyek	[Icons]	5	InnoDB	utf8mb4_general_ci	16.0 KB	-
proyekpegawai	[Icons]	15	InnoDB	utf8mb4_general_ci	48.0 KB	-
4 tabel	Jumlah	38	InnoDB	utf8mb4_general_ci	96.0 KB	0 B

Below the table list, there is a 'Create new table' section with fields for 'Nama tabel' and 'Jumlah kolom', and a 'Buat' button.

