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Prodi : Manajemen Informatika

## Praktikum

```
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', 'Ruang 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]>
```

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

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [db_polinema]> ALTER TABLE mahasiswa ADD agama varchar(10);
Query OK, 0 rows affected (0.116 sec)
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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]> 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:
root@localhost:~# use polinema;
root@localhost:~# show tables;
+-----+
| Tables_in_db_polinema |
+-----+
| dosen                  |
| mahasiswa              |
| mata_kuliah            |
| prodi                  |
| ruang                  |
+-----+
5 rows in set (0.001 sec)

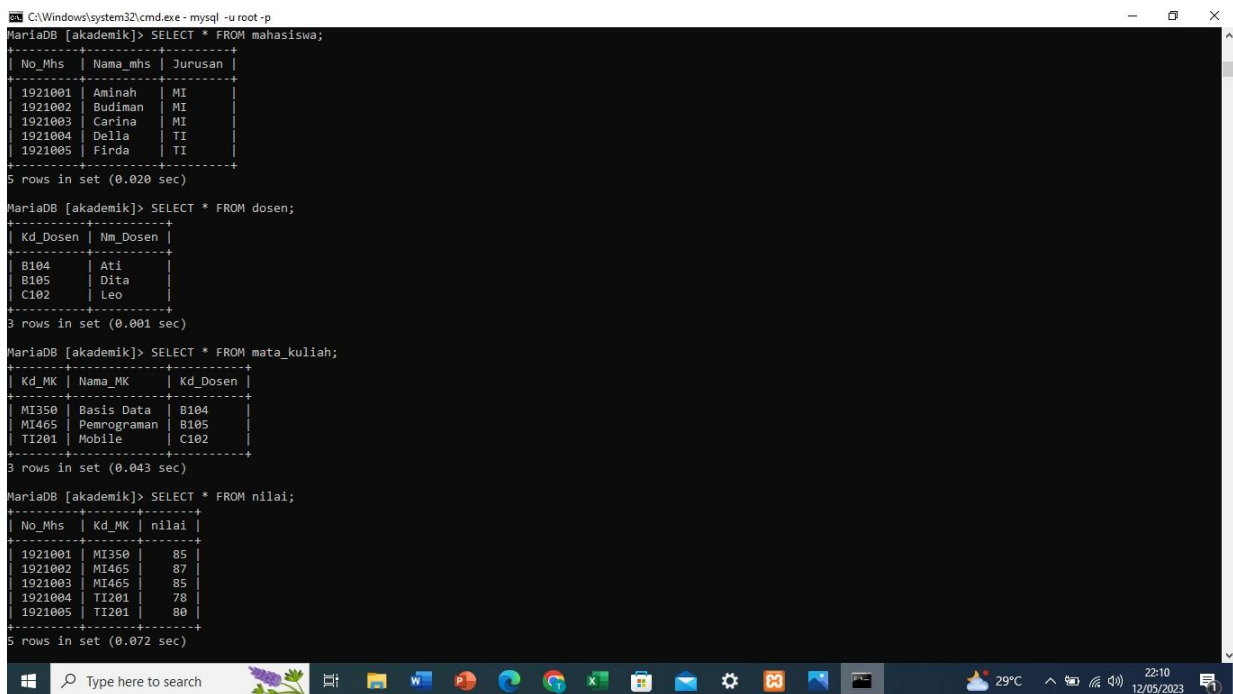
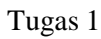
root@localhost:~# select * from mahasiswa;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| nim      | nama_mhs | jenis_kelamin | alamat          | kota      | asal_sma      | no_hp      | umur | kode_prodi | agama |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 2147483647 | Iqbal Maulana | L              | Perum. Barisan Indah | Sampang   | SMA Negeri 1 Sampang | 081336099595 | 20   | MI-1A      | Islam |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.019 sec)

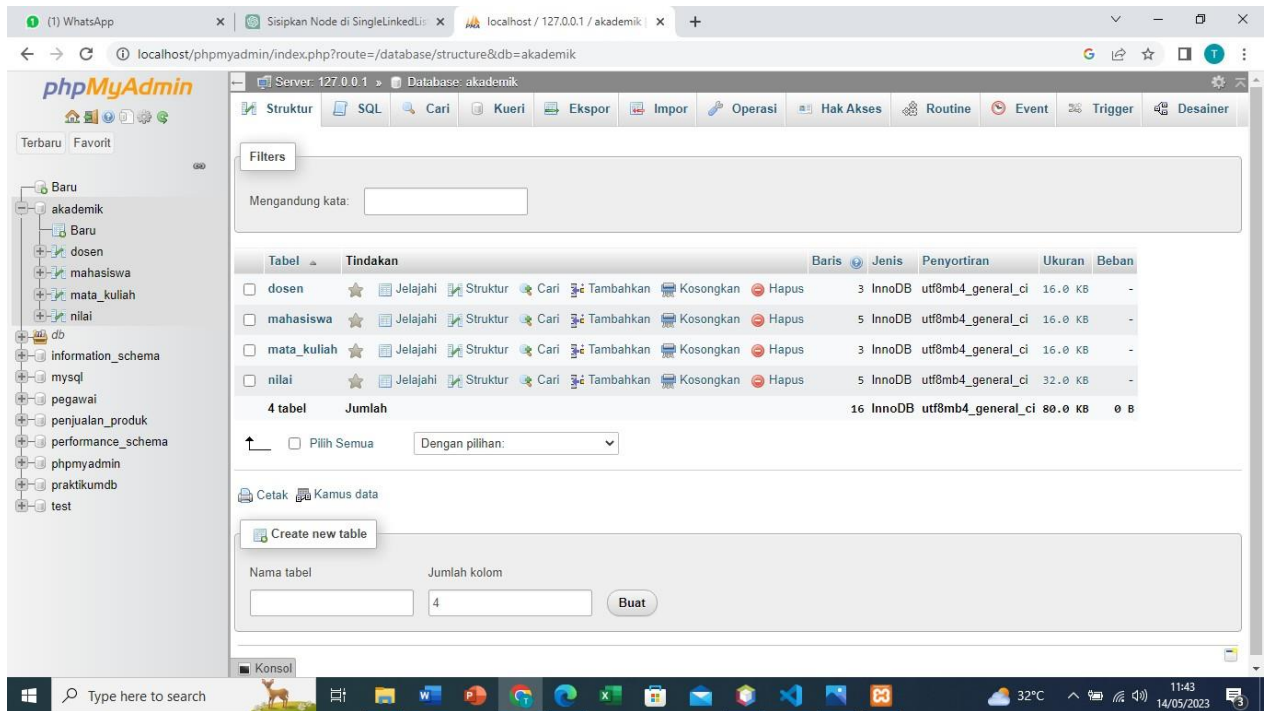
root@localhost:~# desc mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nim        | int(8)     | NO   | PRI | NULL    |       |
| nama_mhs   | char(50)   | YES  |     | NULL    |       |
| jenis_kelamin | 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)

root@localhost:~#
```

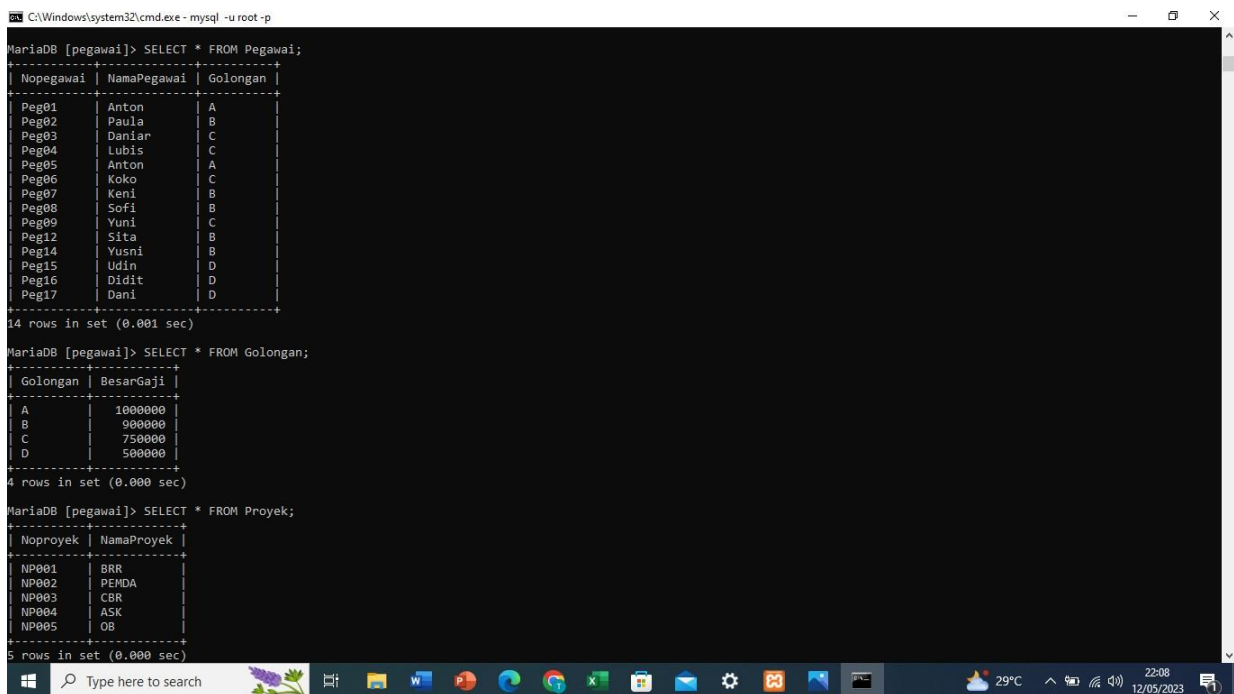
```
root@localhost:~# select * from mahasiswa;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| nim      | nama_mhs | jenis_kelamin | alamat          | kota      | asal_sma      | no_hp      | umur | kode_prodi | agama |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 2147483647 | Iqbal Maulana | L              | Perum. Barisan Indah | Sampang   | SMA Negeri 1 Sampang | 081336099595 | 20   | MI-1A      | Islam |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)

root@localhost:~#
```





## Tugas 2



```
C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [pegawai]> SELECT * FROM Proyekpegawai;
+-----+-----+
| Noprojek | Nopegawai |
+-----+-----+
| 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 panel displays the 'Struktur' (Structure) tab for the 'pegawai' database. It shows a list of tables with their respective actions (Jelajahi, Struktur, Cari, Tambahkan, Kosongkan, Hapus) and details (Baris, Jenis, Penyortiran, Ukuran, Beban).

Tabel	Tindakan	Baris	Jenis	Penyortiran	Ukuran	Beban
golongan	Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	4	InnoDB	utf8mb4_general_ci	16.0 KB	-
pegawai	Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	14	InnoDB	utf8mb4_general_ci	16.0 KB	-
proyek	Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	5	InnoDB	utf8mb4_general_ci	16.0 KB	-
proyekpegawai	Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	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' (set to 4), and a 'Buat' button.





