

Nama : Iqbal Maulana

NIM : 2231750015

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', '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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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]>
```

```
rof. Sudarto No. 22');
Query OK, 1 row affected (0.080 sec)
```

```
+-----+
| Tables_in_db_polinema |
```

```
dosen
mahasiswa
mata_kuliah
prodi
ruang
```

```
5 rows in set (0.001 sec)
```

nim	nama_mhs	jenis_kelamin	alamat	kota	asal_sma	no_hp	umur	kode_prodi	agama
2147483667	Iqbal Maulana	L	Perum. Barisan Indah	Sampang	SMA Negeri 1 Sampang	081336099595	20	MI-1A	Islam
2147483667	Iqbal Maulana	L	Perum. Barisan Indah	Sampang	SMA Negeri 1 Sampang	081336099595	20	MI-1A	Islam

```
1 row in set (0.019 sec)
```

Field	Type	Null	Key	Default	Extra
nim	int(8)	NO	PRI	NULL	
nama_mhs	char(50)	YES		NULL	
jenis_kelamin	enum('M','P')	YES		NULL	
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]>

```
MariaDB [db_polinema]> ALTER TABLE mahasiswa DROP COLUMN asal_sma;
Query OK, 0 rows affected (0.146 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

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)
```

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]>
```

phpMyAdmin interface showing the database structure for 'db_polinema'.

Database: db_polinema

Filters: Mengandung kata:

Tabel	Tindakan	Baris	Jenis	Penyortiran	Ukuran	Beban
<input type="checkbox"/> dosen		1	InnoDB	utf8mb4_general_ci	16.0 KB	-
<input type="checkbox"/> mahasiswa		1	InnoDB	utf8mb4_general_ci	32.0 KB	-
<input type="checkbox"/> mata_kuliah		1	InnoDB	utf8mb4_general_ci	16.0 KB	-
<input type="checkbox"/> prodi		1	InnoDB	utf8mb4_general_ci	16.0 KB	-
<input type="checkbox"/> ruang		1	InnoDB	utf8mb4_general_ci	16.0 KB	-
5 tabel	Jumlah	5	InnoDB	utf8mb4_general_ci	96.0 KB	0 B

☐ Pilih Semua
 Dengan pilihan:

Nama tabel:
 Jumlah kolom:

Konsol

Tugas 1

Terminal output showing SQL queries and results in MariaDB:

```

C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [akademik]> SELECT * FROM mahasiswa;
+-----+-----+-----+
| No_Mhs | Nama_mhs | Jurusan |
+-----+-----+-----+
| 1921001 | Aminah   | MI       |
| 1921002 | Budiman  | MI       |
| 1921003 | Carina   | MI       |
| 1921004 | Della    | TI       |
| 1921005 | Firda    | TI       |
+-----+-----+-----+
5 rows in set (0.020 sec)

MariaDB [akademik]> SELECT * FROM dosen;
+-----+-----+
| Kd_Dosen | Nm_Dosen |
+-----+-----+
| B104     | Ati      |
| B105     | Dita     |
| C102     | Leo      |
+-----+-----+
3 rows in set (0.001 sec)

MariaDB [akademik]> SELECT * FROM mata_kuliah;
+-----+-----+-----+
| Kd_MK | Nama_MK | Kd_Dosen |
+-----+-----+-----+
| MI350 | Basis Data | B104     |
| MI465 | Pemrograman | B105     |
| TI201 | Mobile    | C102     |
+-----+-----+-----+
3 rows in set (0.043 sec)

MariaDB [akademik]> SELECT * FROM nilai;
+-----+-----+-----+
| No_Mhs | Kd_MK | nilai |
+-----+-----+-----+
| 1921001 | MI350 | 85     |
| 1921002 | MI465 | 87     |
| 1921003 | MI465 | 85     |
| 1921004 | TI201 | 78     |
| 1921005 | TI201 | 80     |
+-----+-----+-----+
5 rows in set (0.072 sec)
  
```

phpMyAdmin interface showing the database structure for 'akademik'.

Database: akademik

Filters: Mengandung kata:

Tabel	Tindakan	Baris	Jenis	Penyortiran	Ukuran	Beban
<input type="checkbox"/> dosen		3	InnoDB	utf8mb4_general_ci	16.0 KB	-
<input type="checkbox"/> mahasiswa		5	InnoDB	utf8mb4_general_ci	16.0 KB	-
<input type="checkbox"/> mata_kuliah		3	InnoDB	utf8mb4_general_ci	16.0 KB	-
<input type="checkbox"/> nilai		5	InnoDB	utf8mb4_general_ci	32.0 KB	-
4 tabel	Jumlah	16	InnoDB	utf8mb4_general_ci	80.0 KB	0 B

☐ Pilih Semua Dengan pilihan:

Nama tabel: Jumlah kolom:

Tugas 2

Terminal window showing SQL queries and results in MariaDB.

```

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    | Sita        | 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;
+-----+-----+
| NProyek | 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;
+-----+-----+
| Nproyek | 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, including 'pegawai' and its sub-databases like 'golongan', 'pegawai', 'proyek', and 'proyekpegawai'.

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
<input type="checkbox"/> golongan	Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	4	InnoDB	utf8mb4_general_ci	16.0 KB	-
<input type="checkbox"/> pegawai	Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	14	InnoDB	utf8mb4_general_ci	16.0 KB	-
<input type="checkbox"/> proyek	Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	5	InnoDB	utf8mb4_general_ci	16.0 KB	-
<input type="checkbox"/> 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', and a 'Buat' button.

Nama : Iqbal Maulana

NIM : 2231750015

Prodi : Manajemen Informatika

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