

BASIS DATA

Dasar MySQL Data Definition Language

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Praktikum

```
MariaDB [db_polinema]> show tables;
```

```
+-----+
| Tables_in_db_polinema |
+-----+
| dosen                  |
| mahasiswa              |
| mata_kuliah            |
| prodi                  |
| ruang                  |
+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [db_polinema]> desc dosen;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nidn  | int(20) | NO | PRI | NULL | |
| nama_dosen | char(50) | YES | | NULL | |
| status | enum('PNS','KONTRAK') | YES | | PNS | |
| jenis_kelamin | enum('L','P') | YES | | L | |
| no_hp | varchar(15) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.011 sec)
```

```
MariaDB [db_polinema]> desc mahasiswa;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nim   | int(8) | NO | PRI | NULL | |
| nama_mhs | varchar(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_telp | varchar(12) | YES | | NULL | |
| umur  | int(11) | YES | | NULL | |
| kode_prodi | varchar(6) | YES | MUL | NULL | |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.004 sec)
```

```
MariaDB [db_polinema]> desc mata_kuliah;
```

Field	Type	Null	Key	Default	Extra
mk_id	char(10)	NO	PRI	NULL	
nama_mk	char(50)	YES		NULL	
jumlah_jam	float(4,2)	YES		NULL	
sks	int(11)	YES		NULL	

```
4 rows in set (0.007 sec)
```



```
MariaDB [db_polinema]> desc prodi;
```

Field	Type	Null	Key	Default	Extra
kode_prodi	char(6)	NO	PRI	NULL	
nama_prodi	char(30)	YES		NULL	

```
2 rows in set (0.003 sec)
```



```
MariaDB [db_polinema]> desc ruang;
```

Field	Type	Null	Key	Default	Extra
ruang_id	char(3)	NO	PRI	NULL	
nama_ruang	char(20)	YES		NULL	
kapasitas	int(11)	YES		NULL	

```
3 rows in set (0.003 sec)
```

Soal :

1. Tambahkan sebuah kolom agama (varchar(10)) pada tabel mahasiswa sebagai kolom terakhir.

```
MariaDB [db_polinema]> alter table mahasiswa add agama varchar(10);
Query OK, 0 rows affected (0.021 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	varchar(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_telp	varchar(12)	YES		NULL	
umur	int(11)	YES		NULL	
kode_prodi	varchar(6)	YES	MUL	NULL	
agama	varchar(10)	YES		NULL	

```
10 rows in set (0.003 sec)
```

2. Tambahkan kolom alamat(varchar(50)) pada tabel dosen sebagai kolom terakhir.

```
MariaDB [db_polinema]> alter table dosen add alamat varchar(50);
Query OK, 0 rows affected (0.019 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [db_polinema]> desc dosen;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| nidn  | int(20) | NO | PRI | NULL | |
| nama_dosen | char(50) | YES | | NULL | |
| status | enum('PNS','KONTRAK') | YES | | PNS | |
| jenis_kelamin | enum('L','P') | YES | | L | |
| no_hp | varchar(15) | YES | | NULL | |
| alamat | varchar(50) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.003 sec)
```

3. Lakukan insert data ke dalam tabel-tabel yang ada pada database db_polinema sesuai dengan field, tipe data dan panjang datanya.

```
MariaDB [db_polinema]> update prodi set nama_prodi = 'Teknik Informatika' where kode_prodi = 'P01';
Query OK, 1 row affected (0.008 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [db_polinema]> update prodi set nama_prodi = 'Sistem Informasi Bisnis' where kode_prodi = 'P02';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [db_polinema]> select * from prodi;
+-----+-----+
| kode_prodi | nama_prodi |
+-----+-----+
| P01        | Teknik Informatika |
| P02        | Sistem Informasi Bisnis |
+-----+-----+
2 rows in set (0.000 sec)
```

* saya update karena sebelumnya saya salah mengisi datanya dengan mata kuliah.

```
MariaDB [db_polinema]> insert into mahasiswa values
→ (12345678, 'Aden', 'L', 'Losawi', 'Batu', 'SMK 2 Singosari', '086352415672', 17, 'P01', 'Islam'),
→ (89352617, 'Raihan', 'L', 'Jatimulyo', 'Bululawang', 'SMA 1 Bululawang', '082154378261', 20, 'P02', 'Islam'),
→ (87654321, 'Lavina', 'P', 'Gembrung', 'Malang', 'SMK 8 Malang', '085324671452', 19, 'P02', 'Islam');
Query OK, 3 rows affected (0.002 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
MariaDB [db_polinema]> insert into mata_kuliah values
→ ('MK02', 'Matematika', 2, 1),
→ ('MK03', 'Daspro', 4, 2);
Query OK, 2 rows affected (0.002 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

```
MariaDB [db_polinema]> insert into ruang values
→ ('R01', 'Laboratorium', 30),
→ ('R02', 'Kelas', 60);
Query OK, 2 rows affected (0.002 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

```
MariaDB [db_polinema]> insert into dosen values
→ (123, 'Revani', 'PNS', 'P', '083526271625', 'Sawojajar'),
→ (456, 'Yonanda', 'KONTRAK', 'P', '087637287345', 'Jombang'),
→ (789, 'Mayla', 'PNS', 'L', '084532674817', 'Jombang');
Query OK, 3 rows affected (0.002 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

4. Tampilkan semua tabel yang ada didalam database db_polinema

```
MariaDB [db_polinema]> show tables;
+-----+
| Tables_in_db_polinema |
+-----+
| dosen                  |
| mahasiswa              |
| mata_kuliah            |
| prodi                  |
| ruang                  |
+-----+
5 rows in set (0.000 sec)
```

5. Tampilkan semua isi tabel yang ada didalam tabel mahasiswa

```
MariaDB [db_polinema]> select * from prodi;
+-----+-----+
| kode_prodi | nama_prodi |
+-----+-----+
| P01        | Teknik Informatika |
| P02        | Sistem Informasi Bisnis |
+-----+-----+
2 rows in set (0.000 sec)
```

```
MariaDB [db_polinema]> select * from mahasiswa;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| nim    | nama_mhs | jenis_kelamin | alamat | kota | asal_sma | no_telp | umur | kode_prodi | ag |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 12345678 | Aden    | L             | Losawi | Batu | SMK 2 Singosari | 086352415672 | 17 | P01        | Is |
| 87654321 | Lavina  | P             | Gembrung | Malang | SMK 8 Malang | 085324671452 | 19 | P02        | Is |
| 89352617 | Raihan  | L             | Jatimulyo | Bululawang | SMA 1 Bululawang | 082154378261 | 20 | P02        | Is |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.000 sec)
```

```
MariaDB [db_polinema]> select * from mata_kuliah;
+-----+-----+-----+-----+
| mk_id | nama_mk | jumlah_jam | sks |
+-----+-----+-----+-----+
| MK01  | Basis Data | 4.00 | 2 |
| MK02  | Matematika | 2.00 | 1 |
| MK03  | Daspro    | 4.00 | 2 |
+-----+-----+-----+-----+
3 rows in set (0.001 sec)
```

```
MariaDB [db_polinema]> select * from dosen;
+-----+-----+-----+-----+-----+-----+
| nidn | nama_dosen | status | jenis_kelamin | no_hp | alamat |
+-----+-----+-----+-----+-----+-----+
| 123  | Revani    | PNS    | P             | 083526271625 | Sawojajar |
| 456  | Yonanda   | KONTRAK | P             | 087637287345 | Jombang |
| 789  | Mayla     | PNS    | L             | 084532674817 | Jombang |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.000 sec)
```

```
MariaDB [db_polinema]> select * from ruang;
```

ruang_id	nama_ruang	kapasitas
R01	Laboratorium	30
R02	Kelas	60

```
2 rows in set (0.000 sec)
```

6. Tampilkan struktur(metadata) tabel mahasiswa

```
MariaDB [db_polinema]> desc mahasiswa;
```

Field	Type	Null	Key	Default	Extra
nim	int(8)	NO	PRI	NULL	
nama_mhs	varchar(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_telp	varchar(12)	YES		NULL	
umur	int(11)	YES		NULL	
kode_prodi	varchar(6)	YES	MUL	NULL	

```
9 rows in set (0.004 sec)
```

7. Hilangkan kolom asal_sma yang terdapat didalam tabel mahasiswa

```
MariaDB [db_polinema]> alter table mahasiswa drop column asal_sma;
Query OK, 0 rows affected (0.013 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	varchar(50)	YES		NULL	
jenis_kelamin	enum('L','P')	YES		L	
alamat	varchar(50)	YES		NULL	
kota	varchar(20)	YES		malang	
no_telp	varchar(12)	YES		NULL	
umur	int(11)	YES		NULL	
kode_prodi	varchar(6)	YES	MUL	NULL	
agama	varchar(10)	YES		NULL	

```
9 rows in set (0.003 sec)
```

Tugas

1. Buatlah basis data Akademik dengan data sebagai berikut :

No_Mhs	Nama_mhs	Jurusan	Kd_MK	Nama_mk	Kd_Dosen	Nm_Dosen	nilai
1921001	Aminah	MI	MI350	Basis Data	B104	Ati	85
1921001	Budiman	MI	MI465	Pemrograman	B105	Dita	87
1921002	Carina	MI	MI465	Pemrograman	B105	Dita	85
1921003	Della	TI	TI201	Mobile	C102	Leo	78
1921004	Firda	TI	TI201	Mobile	C102	Leo	80

a. Deskripsikan struktur data dari table-tabel berikut serta isikan datanya:

Tabel Mahasiswa {No_Mhs, Nama_mhs}

```
MariaDB [akademik]> desc mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| no_mhs | int(7)    | NO   | PRI | NULL    |       |
| nama_mhs | varchar(50) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.002 sec)
```

Tabel Mata_Kuliah {Kd_MK, Nama_MK}

```
MariaDB [akademik]> desc mata_kuliah;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| kd_mk | char(5)    | NO   | PRI | NULL    |       |
| nama_mk | varchar(30) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.002 sec)
```

Tabel nilai {No_Mhs, Kode_MK}

```
MariaDB [akademik]> desc nilai;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| no_mhs | int(7)    | YES  | MUL | NULL    |       |
| kode_mk | char(5)   | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.003 sec)
```

tambahkan kolom Jurusan pada tabel Mahasiswa di kolom terakhir.

Untuk menormalisasi, sebelum itu dibuatlah tabel khusus untuk jurusan, yang nantinya akan menjadi foreign key di tabel mahasiswa.

```
MariaDB [akademik]> desc jurusan;
```

Field	Type	Null	Key	Default	Extra
kd_jur	enum('MI','TI')	NO	PRI	NULL	
nama_jur	varchar(30)	YES		NULL	

```
2 rows in set (0.004 sec)
```

```
MariaDB [akademik]> alter table mahasiswa add jurusan enum('MI','TI');
Query OK, 0 rows affected (0.023 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [akademik]> alter table mahasiswa add constraint fk_jurusan foreign key (jurusan) references jurusan(kd_jur);
Query OK, 0 rows affected (0.025 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [akademik]> desc mahasiswa;
```

Field	Type	Null	Key	Default	Extra
no_mhs	int(7)	NO	PRI	NULL	
nama_mhs	varchar(50)	YES		NULL	
jurusan	enum('MI','TI')	YES	MUL	NULL	

```
3 rows in set (0.004 sec)
```

b. Tambahkan kolom Kode Dosen pada tabel Mata_Kuliah

```
MariaDB [akademik]> create table dosen (
  → kd_dosen char(4) primary key,
  → nm_dosen varchar(50));
Query OK, 0 rows affected (0.012 sec)

MariaDB [akademik]> alter table mata_kuliah add kd_dosen char(4);
Query OK, 0 rows affected (0.011 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [akademik]> alter table mata_kuliah add constraint fk_dosen foreign key (kd_dosen) references dosen(kd_dosen);
Query OK, 0 rows affected (0.028 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [akademik]> desc mata_kuliah;
```

Field	Type	Null	Key	Default	Extra
kd_mk	char(5)	NO	PRI	NULL	
nama_mk	varchar(30)	YES		NULL	
kd_dosen	char(4)	YES	MUL	NULL	

```
3 rows in set (0.004 sec)
```

c. Tambahkan kolom nilai pada tabel nilai serta berikanlah kunci foreign key.

```

MariaDB [akademik]> alter table nilai add nilai int(3);
Query OK, 0 rows affected (0.011 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [akademik]> alter table nilai add kd_nilai char(3) primary key;
Query OK, 0 rows affected (0.038 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [akademik]> desc nilai;
+-----+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| no_mhs | int(7) | YES  | MUL | NULL    |       |
| kode_mk | char(5) | YES  | MUL | NULL    |       |
| nilai  | int(3) | YES  |     | NULL    |       |
| kd_nilai | char(3) | NO   | PRI | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.003 sec)

```

- d. Tambahkan Tabel Dosen dengan atributnya Kd_Dosen dan Nama Dosen

```

MariaDB [akademik]> create table dosen (
    → kd_dosen char(4) primary key,
    → nm_dosen varchar(50));
Query OK, 0 rows affected (0.012 sec)

```

- e. Tampilkan semua data yang ada pada tiap table

```

MariaDB [akademik]> select * from jurusan;
+-----+-----+
| kd_jur | nama_jur |
+-----+-----+
| MI     | Manajemen Informatika |
| TI     | Teknik Informatika    |
+-----+-----+
2 rows in set (0.000 sec)

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 (0.000 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 (0.000 sec)

```



```

MariaDB [akademik]> select * from dosen;
+-----+-----+
| kd_dosen | nm_dosen |
+-----+-----+
| B104     | Ati      |
| B105     | Dita     |
| C102     | Leo      |
+-----+-----+
3 rows in set (0.000 sec)

MariaDB [akademik]> select * from nilai;
+-----+-----+-----+-----+
| no_mhs  | kode_mk | nilai | kd_nilai |
+-----+-----+-----+-----+
| 1921001 | MI350   | 85    | 1         |
| 1921002 | MI465   | 87    | 2         |
| 1921003 | MI465   | 85    | 3         |
| 1921004 | TI201   | 78    | 4         |
| 1921005 | TI201   | 80    | 5         |
+-----+-----+-----+-----+
5 rows in set (0.000 sec)

```

2. Buatlah basis data Pegawai yang terdiri dari tabel sebagai berikut :

Noproyek	NamaProyek	Nopegawai	NamaPegawai	Golongan	BesarGaji
NP001	BRR	Peg01	Anton	A	1.000.000
NP001	BRR	Peg02	Paula	B	900.000
NP001	BRR	Peg06	Koko	C	750.000
NP002	PEMDA	Peg01	Anton	A	1.000.000
NP002	PEMDA	Peg12	Sita	B	900.000
NP002	PEMDA	Peg14	Yusni	B	900.000
NP003	CBR	Peg02	Paula	B	900.000
NP003	CBR	Peg03	Daniar	C	750.000
NP003	CBR	Peg04	Lubis	C	750.000
NP004	ASK	Peg07	Keni	B	900.000
NP004	ASK	Peg08	Sofi	B	900.000
NP004	ASK	Peg06	Yuni	C	750.000
NP005	OB	Peg15	Udin	D	500.000
NP005	OB	Peg16	Didit	D	500.000
NP005	OB	Peg17	Dani	D	500.000

a. Deskripsikan struktur data dari table-tabel berikut serta isikan datanya:

Table Pegawai {Nopegawai, NamaPegawai}

```

MariaDB [pegawai]> create table pegawai (
    → no_pegawai char(5) primary key,
    → nama_pegawai varchar(30));
Query OK, 0 rows affected (0.012 sec)

```

Tabel Golongan {Golongan}

```
MariaDB [pegawai]> create table golongan (  
    → golongan enum('A','B','C','D'));  
Query OK, 0 rows affected (0.012 sec)
```

Tabel Proyek {Noprojek}

```
MariaDB [pegawai]> create table proyek (  
    → no_proyek char(5));  
Query OK, 0 rows affected (0.009 sec)
```

Tabel Proyekpegawai {Noprojek}

```
MariaDB [pegawai]> create table proyek_pegawai (  
    → no_proyek char(5));  
Query OK, 0 rows affected (0.011 sec)
```

- b. Tambahkan kolom Golongan pada tabel Pegawai di kolom terakhir

Menambah kolom golongan terlebih dahulu.

```
MariaDB [pegawai]> alter table pegawai add golongan enum('A',  
'','B','C','D');  
Query OK, 0 rows affected (0.012 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

Mereferensikannya dengan table golongan.

```
MariaDB [pegawai]> alter table golongan add primary key (golongan);  
Query OK, 0 rows affected (0.021 sec)  
Records: 0 Duplicates: 0 Warnings: 0  
  
MariaDB [pegawai]> alter table pegawai add foreign key (golongan) references golongan(golongan);  
Query OK, 0 rows affected (0.035 sec)  
Records: 0 Duplicates: 0 Warnings: 0  
  
MariaDB [pegawai]> desc pegawai;  
+-----+-----+-----+-----+-----+  
| Field      | Type                | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+  
| no_pegawai | char(5)              | NO   | PRI | NULL    |      |  
| nama_pegawai | varchar(30)          | YES  |     | NULL    |      |  
| golongan   | enum('A','B','C','D') | YES  | MUL | NULL    |      |  
+-----+-----+-----+-----+-----+  
3 rows in set (0.004 sec)
```

- c. Tambahkan kolom BesarGaji pada tabel Golongan di kolom terakhir

```
MariaDB [pegawai]> alter table golongan add besar_gaji integer(12);  
Query OK, 0 rows affected (0.013 sec)  
Records: 0 Duplicates: 0 Warnings: 0  
  
MariaDB [pegawai]> desc golongan;  
+-----+-----+-----+-----+-----+  
| Field      | Type                | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+  
| golongan   | enum('A','B','C','D') | NO   | PRI | NULL    |      |  
| besar_gaji | int(12)              | YES  |     | NULL    |      |  
+-----+-----+-----+-----+-----+  
2 rows in set (0.003 sec)
```

- d. Tambahkan kolom NamaProyek pada table Proyek.

```
MariaDB [pegawai]> alter table proyek add nama_proyek varchar(30);
Query OK, 0 rows affected (0.011 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [pegawai]> desc proyek;
+-----+-----+-----+-----+-----+-----+
| Field      | Type        | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| no_proyek  | char(5)     | YES  |     | NULL    |       |
| nama_proyek | varchar(30) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.002 sec)
```

- e. Tambahkan kolom NoPegawai pada table Proyekpegawai serta berikanlah kunci foreign key

```
MariaDB [pegawai]> alter table proyek_pegawai add no_pegawai char(5);
Query OK, 0 rows affected (0.011 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [pegawai]> alter table proyek_pegawai add foreign key (no_pegawai) references pegawai(no_pegawai);
Query OK, 0 rows affected (0.024 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [pegawai]> alter table proyek add primary key (no_proyek);
Query OK, 0 rows affected (0.021 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [pegawai]> alter table proyek_pegawai add foreign key (no_proyek) references proyek(no_proyek);
Query OK, 0 rows affected (0.025 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [pegawai]> desc proyek_pegawai;
+-----+-----+-----+-----+-----+-----+
| Field      | Type        | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| no_proyek  | char(5)     | YES  | MUL | NULL    |       |
| no_pegawai | char(5)     | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.004 sec)
```

- f. Tampilkan semua data yang ada pada tiap table.

```
MariaDB [pegawai]> select * from pegawai;
+-----+-----+-----+
| no_pegawai | nama_pegawai | golongan |
+-----+-----+-----+
| PEG01      | Anton        | A        |
| PEG02      | Paula        | B        |
| PEG03      | Daniar       | C        |
| PEG04      | Lubis        | C        |
| PEG05      | Koko          | C        |
| PEG06      | Yuni         | C        |
| PEG07      | Keni         | B        |
| PEG08      | Sofi         | B        |
| PEG12      | Sita         | B        |
| PEG14      | Yusni        | B        |
| PEG15      | Udin         | D        |
| PEG16      | Didit        | D        |
| PEG17      | Dani         | D        |
+-----+-----+-----+
13 rows in set (0.000 sec)
```

```
MariaDB [pegawai]> select * from golongan;
+-----+-----+
| golongan | besar_gaji |
+-----+-----+
| A        | 1000000    |
| B        | 900000     |
| C        | 750000     |
| D        | 500000     |
+-----+-----+
4 rows in set (0.000 sec)
```

```
MariaDB [pegawai]> select * from proyek;
+-----+-----+
| no_proyek | nama_proyek |
+-----+-----+
| NP001     | BRR         |
| NP002     | PEMDA       |
| NP003     | CBR         |
| NP004     | ASK         |
| NP005     | OB          |
+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [pegawai]> select * from proyek_pegawai;
```

no_proyek	no_pegawai
NP001	PEG01
NP001	PEG02
NP001	PEG05
NP002	PEG01
NP002	PEG12
NP002	PEG14
NP003	PEG02
NP003	PEG03
NP003	PEG04
NP004	PEG07
NP004	PEG08
NP004	PEG06
NP005	PEG15
NP004	PEG16
NP004	PEG17

15 rows in set (0.000 sec)