

1. Membuat Migration

```
c:\XAMPP\htdocs\perpustakaan_lrv1>php artisan make:migration create_table_buku --create=buku
Created Migration: 2020_01_12_210650_create_table_buku

c:\XAMPP\htdocs\perpustakaan_lrv1>php artisan make:migration create_table_anggota --create=anggota
Created Migration: 2020_01_12_210926_create_table_anggota

c:\XAMPP\htdocs\perpustakaan_lrv1>php artisan make:migration create_table_petugas --create=petugas
Created Migration: 2020_01_12_210946_create_table_petugas

c:\XAMPP\htdocs\perpustakaan_lrv1>php artisan make:migration create_table_peminjaman --create=peminjaman
Created Migration: 2020_01_12_211015_create_table_peminjaman

c:\XAMPP\htdocs\perpustakaan_lrv1>php artisan make:migration create_table_detail_peminjaman --create=detail_peminjaman
Created Migration: 2020_01_12_211533_create_table_detail_peminjaman
```

2. Hasil Migration

```
c:\XAMPP\htdocs\perpustakaan_lrv1>php artisan migrate
Migration table created successfully.
Migrating: 2014_10_12_000000_create_users_table
Migrated: 2014_10_12_000000_create_users_table (0.59 seconds)
Migrating: 2014_10_12_100000_create_password_resets_table
Migrated: 2014_10_12_100000_create_password_resets_table (0.45 seconds)
Migrating: 2020_01_12_210650_create_table_buku
Migrated: 2020_01_12_210650_create_table_buku (0.29 seconds)
Migrating: 2020_01_12_210926_create_table_anggota
Migrated: 2020_01_12_210926_create_table_anggota (0.23 seconds)
Migrating: 2020_01_12_210946_create_table_petugas
Migrated: 2020_01_12_210946_create_table_petugas (0.21 seconds)
Migrating: 2020_01_12_211015_create_table_peminjaman
Migrated: 2020_01_12_211015_create_table_peminjaman (0.18 seconds)
Migrating: 2020_01_12_211533_create_table_detail_peminjaman
Migrated: 2020_01_12_211533_create_table_detail_peminjaman (0.2 seconds)
```

3. Coding setiap table

- Buku

```
2020_01_12_210650_create_table_buku.php X 2020_01_12_210926_create_table_a
database > migrations > 2020_01_12_210650_create_table_buku.php
1 <?php
2
3 use Illuminate\Support\Facades\Schema;
4 use Illuminate\Database\Schema\Blueprint;
5 use Illuminate\Database\Migrations\Migration;
6
7 class CreateTableBuku extends Migration
8 {
9     /**
10      * Run the migrations.
11      *
12      * @return void
13      */
14     public function up()
15     {
16         Schema::create('buku', function (Blueprint $table) {
17             $table->bigIncrements('id');
18             $table->string('judul', 100);
19             $table->string('penerbit', 100);
20             $table->string('pengarang', 100);
21             $table->string('foto', 100);
22             $table->timestamps();
23         });
24     }
25
26     /**
27      * Reverse the migrations.
28      *
29      * @return void
30      */
31     public function down()
32     {
33         Schema::dropIfExists('buku');
34     }
35 }
```

- Anggota

```
2020_01_12_210650_create_table_buku.php 2020_01_12_210926_create_table_anggota.php x
database > migrations > 2020_01_12_210926_create_table_anggota.php
1  <?php
2
3  use Illuminate\Support\Facades\Schema;
4  use Illuminate\Database\Schema\Blueprint;
5  use Illuminate\Database\Migrations\Migration;
6
7  class CreateTableAnggota extends Migration
8  {
9      /**
10       * Run the migrations.
11       *
12       * @return void
13       */
14     public function up()
15     {
16         Schema::create('anggota', function (Blueprint $table) {
17             $table->bigIncrements('id');
18             $table->string('nama_anggota', 100);
19             $table->string('alamat', 100);
20             $table->string('telp', 100);
21             $table->timestamps();
22         });
23     }
24
25     /**
26      * Reverse the migrations.
27      *
28      * @return void
29      */
30     public function down()
31     {
32         Schema::dropIfExists('anggota');
33     }
34 }
```

- Petugas

```
2020_01_12_210650_create_table_buku.php 2020_01_12_210926_create_table_anggota.php
database > migrations > 2020_01_12_210946_create_table_petugas.php
1  <?php
2
3  use Illuminate\Support\Facades\Schema;
4  use Illuminate\Database\Schema\Blueprint;
5  use Illuminate\Database\Migrations\Migration;
6
7  class CreateTablePetugas extends Migration
8  {
9      /**
10       * Run the migrations.
11       *
12       * @return void
13       */
14     public function up()
15     {
16         Schema::create('petugas', function (Blueprint $table) {
17             $table->bigIncrements('id');
18             $table->string('nama_petugas', 100);
19             $table->string('alamat', 100);
20             $table->string('telp', 100);
21             $table->string('username', 100);
22             $table->string('password', 100);
23             $table->timestamps();
24         });
25     }
26
27     /**
28      * Reverse the migrations.
29      *
30      * @return void
31      */
32     public function down()
33     {
34     }
```

- Peminjaman

```
2020_01_12_211015_create_table_peminjaman.php ×
database > migrations > 2020_01_12_211015_create_table_peminjaman.php
1  <?php
2
3  use Illuminate\Support\Facades\Schema;
4  use Illuminate\Database\Schema\Blueprint;
5  use Illuminate\Database\Migrations\Migration;
6
7  class CreateTablePeminjaman extends Migration
8  {
9      /**
10       * Run the migrations.
11       *
12       * @return void
13       */
14     public function up()
15     {
16         Schema::create('peminjaman', function (Blueprint $table) {
17             $table->bigIncrements('id');
18             $table->string('tgl_pinjam', 100);
19             $table->string('id_anggota', 100);
20             $table->string('id_petugas', 100);
21             $table->string('tgl_kembali', 100);
22             $table->string('deadline', 100);
23             $table->string('denda', 100);
24             $table->timestamps();
25         });
26     }
27
28     /**
29      * Reverse the migrations.
30      *
31      * @return void
32      */
33     public function down()
34     {
35         Schema::dropIfExists('peminjaman');
```

- Detail Peminjaman

```
2020_01_12_211533_create_table_detail_peminjaman.php ×
database > migra C:\XAMPP\htdocs\perpustakaan_inv\database\migrations\2020_01_12_211533_create_table_detail
1  <?php
2
3  use Illuminate\Support\Facades\Schema;
4  use Illuminate\Database\Schema\Blueprint;
5  use Illuminate\Database\Migrations\Migration;
6
7  class CreateTableDetailPeminjaman extends Migration
8  {
9      /**
10       * Run the migrations.
11       *
12       * @return void
13       */
14     public function up()
15     {
16         Schema::create('detail_peminjaman', function (Blueprint $table) {
17             $table->bigIncrements('id');
18             $table->string('id_pinjam', 100);
19             $table->string('id_buku', 100);
20             $table->string('qty', 100);
21             $table->timestamps();
22         });
23     }
24
25     /**
26      * Reverse the migrations.
27      *
28      * @return void
29      */
30     public function down()
31     {
32         Schema::dropIfExists('detail_peminjaman');
33     }
34 }
35
```

4. Isi Table

The screenshot shows the phpMyAdmin interface for a database named 'perpus'. The left sidebar displays a tree view of the database structure, including tables like 'anggota', 'buku', 'detail_peminjaman', 'migrations', 'password_resets', 'peminjaman', 'petugas', and 'users'. The main panel shows the 'Structure' tab for the 'perpus' database. It lists 8 tables with their respective actions (Browse, Structure, Search, Insert, Empty, Drop) and details like Rows, Type, Collation, Size, and Overhead. The 'Sum' row indicates 8 tables with a total of 7 rows and a size of 128 KiB.

Table	Action	Rows	Type	Collation	Size	Overhead
anggota	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_unicode_ci	16 KiB	
buku	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_unicode_ci	16 KiB	
detail_peminjaman	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_unicode_ci	16 KiB	
migrations	Browse Structure Search Insert Empty Drop	7	InnoDB	utf8_unicode_ci	16 KiB	
password_resets	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_unicode_ci	16 KiB	
peminjaman	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_unicode_ci	16 KiB	
petugas	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_unicode_ci	16 KiB	
users	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_unicode_ci	16 KiB	
8 tables	Sum	7	InnoDB	latin1_swedish_ci	128 KiB	0

- Buku

The screenshot shows the phpMyAdmin interface for the 'buku' table in the 'perpus' database. The 'Structure' tab is selected, displaying the table's columns: id, judul, penerbit, pengarang, foto, created_at, and updated_at. A message indicates that the table is empty (zero rows).

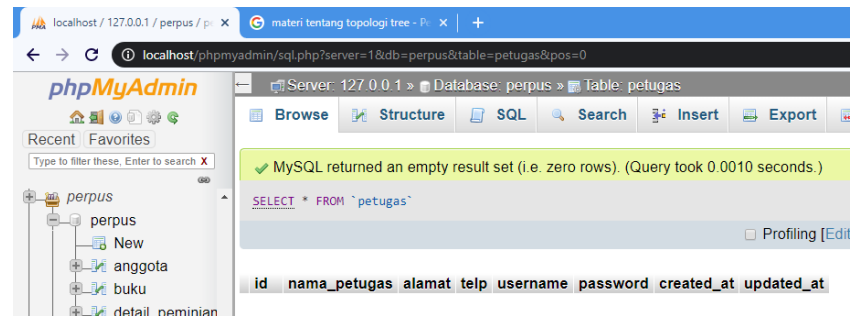
```
SELECT * FROM `buku`
```

- Anggota

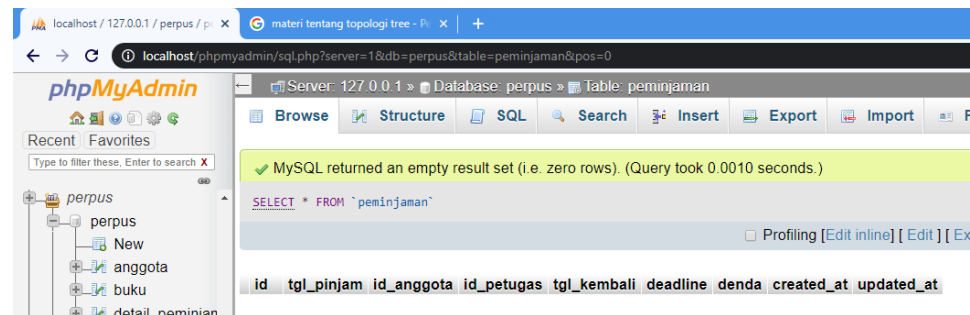
The screenshot shows the phpMyAdmin interface for the 'anggota' table in the 'perpus' database. The 'Structure' tab is selected, displaying the table's columns: id, nama_anggota, alamat, telp, created_at, and updated_at. A message indicates that the table is empty (zero rows).

```
SELECT * FROM `anggota`
```

- Petugas



- Peminjaman



- Detail Peminjaman

