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1. Membuat migration

```
c:\xampp\htdocs\perpustakaan>php artisan make:migration create_table_buku --create=buku
Created Migration: 2020_01_14_063736_create_table_buku
^C
c:\xampp\htdocs\perpustakaan>
c:\xampp\htdocs\perpustakaan>php artisan make:migration create_table_anggota --create=anggota
Created Migration: 2020_01_14_063904_create_table_anggota
^C
c:\xampp\htdocs\perpustakaan>php artisan make:migration create_table_petugas --create=petugas
Created Migration: 2020_01_14_063944_create_table_petugas
^C
c:\xampp\htdocs\perpustakaan>php artisan make:migration create_table_peminjaman --create=peminjaman
Created Migration: 2020_01_14_064018_create_table_peminjaman
^C
c:\xampp\htdocs\perpustakaan>php artisan make:migration create_table_detail_peminjaman --create=detail_peminjaman
Created Migration: 2020_01_14_064057_create_table_detail_peminjaman
^C
c:\xampp\htdocs\perpustakaan>php artisan migrate
Migration table created successfully.
Migrating: 2014_10_12_000000_create_users_table
```

2. Hasil migration

```
c:\xampp\htdocs\perpustakaan>php artisan migrate
Migrating: 2020_01_14_063736_create_table_buku
Migrated: 2020_01_14_063736_create_table_buku (0.26 seconds)
Migrating: 2020_01_14_063904_create_table_anggota
Migrated: 2020_01_14_063904_create_table_anggota (0.23 seconds)
Migrating: 2020_01_14_063944_create_table_petugas
Migrated: 2020_01_14_063944_create_table_petugas (0.25 seconds)
Migrating: 2020_01_14_064018_create_table_peminjaman
Migrated: 2020_01_14_064018_create_table_peminjaman (0.22 seconds)
Migrating: 2020_01_14_064057_create_table_detail_peminjaman
Migrated: 2020_01_14_064057_create_table_detail_peminjaman (0.23 seconds)
c:\xampp\htdocs\perpustakaan>
```

3. Coding setiap table

- Buku

```
.env | 2020_01_14_063736_cre | 2020_01_14_063904_crea... | 2020_01_14_063944_crea...
1 <?php
2 use Illuminate\Support\Facades\Schema;
3 use Illuminate\Database\Schema\Blueprint;
4 use Illuminate\Database\Migrations\Migration;
5
6 class CreateTableBuku extends Migration
7 {
8     /**
9      * Run the migrations.
10      *
11      * @return void
12      */
13     public function up()
14     {
15         Schema::create('buku', function (Blueprint $table) {
16             $table->bigIncrements('id');
17             $table->string('judul', 100);
18             $table->string('penerbit', 100);
19             $table->string('pengarang', 100);
20             $table->string('foto', 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('buku');
33     }
34 }
```

- Anggota

```

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

```

- Petugas

```

1 <?php
2 use Illuminate\Support\Facades\Schema;
3 use Illuminate\Database\Schema\Blueprint;
4 use Illuminate\Database\Migrations\Migration;
5
6 class CreateTablePetugas extends Migration
7 {
8     /**
9      * Run the migrations.
10     *
11     * @return void
12     */
13     public function up()
14     {
15         Schema::create('petugas', function (Blueprint $table) {
16             $table->bigIncrements('id');
17             $table->string('nama_petugas', 100);
18             $table->string('alamat', 100);
19             $table->string('telp', 100);
20             $table->string('username', 100);
21             $table->string('password', 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('petugas');
34     }
35 }
36

```

- Peminjam

```

.env      2020_01_14_063736_crea...  2020_01_14_063904_crea...  2020_01_14_0
1  <?php
2  use Illuminate\Support\Facades\Schema;
3  use Illuminate\Database\Schema\Blueprint;
4  use Illuminate\Database\Migrations\Migration;
5  class CreateTablePeminjaman extends Migration
6  {
7      /**
8       * Run the migrations.
9       *
10      * @return void
11      */
12      public function up()
13      {
14          Schema::create('peminjaman', function (Blueprint $table) {
15              $table->bigIncrements('id');
16              $table->string('tgl_pinjam', 100);
17              $table->string('id_anggota', 100);
18              $table->string('id_petugas', 100);
19              $table->string('tgl_kembali', 100);
20              $table->string('deadline', 100);
21              $table->string('denda', 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('peminjaman');
34      }
35  }

```

- Detail_peminjam

```

Help
.env      2020_01_14_063736_crea...  2020_01_14_063904_crea...  2020_01_14_0
1  <?php
2  use Illuminate\Support\Facades\Schema;
3  use Illuminate\Database\Schema\Blueprint;
4  use Illuminate\Database\Migrations\Migration;
5  class CreateTableDetailPeminjaman extends Migration
6  {
7      /**
8       * Run the migrations.
9       *
10     * @return void
11     */
12     public function up()
13     {
14         Schema::create('detail_peminjaman', function (Blueprint $table) {
15             $table->bigIncrements('id');
16             $table->string('id_pinjam', 100);
17             $table->string('id_buku', 100);
18             $table->string('qty', 100);
19             $table->timestamps();
20         });
21     }
22
23     /**
24      * Reverse the migrations.
25      *
26      * @return void
27      */
28     public function down()
29     {
30         Schema::dropIfExists('detail_peminjaman');
31     }
32 }
33

```

4. Isi table

localhost/phpmyadmin/db_structure.php?server=1&db=perpustakaan

Server: 127.0.0.1 Database: perpustakaan

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers

Filters

Containing the word:

| 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 | 5 | InnoDB | utf8mb4_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 | utf8mb4_unicode_ci | 16 KIB | - |
| 7 tables | Sum | 5 | InnoDB | latin1_swedish_ci | 112 KIB | 0.8 |

Check all With selected:

Print Data dictionary

- Table buku

localhost/phpmyadmin/sql.php?server=1&db=perpustakaan&table=buku&pos=0

Server: 127.0.0.1 Database: perpustakaan Table: buku

Browse Structure SQL Search Insert Export Import

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0025 seconds.)

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

id judul penerbit pengarang foto created_at updated_at

Query results operations

Create view

Bookmark this SQL query

Label: Let every user access this bookmark

- Table anggota

localhost/phpmyadmin/sql.php?db=perpustakaan&table=anggota&pos=0

Server: 127.0.0.1 Database: perpustakaan Table: anggota

Browse Structure SQL Search Insert Export Import

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0028 seconds.)

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

id nama_anggota alamat telp created_at updated_at

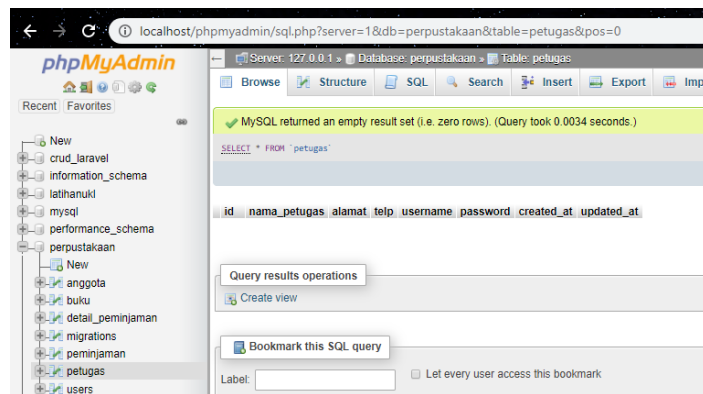
Query results operations

Create view

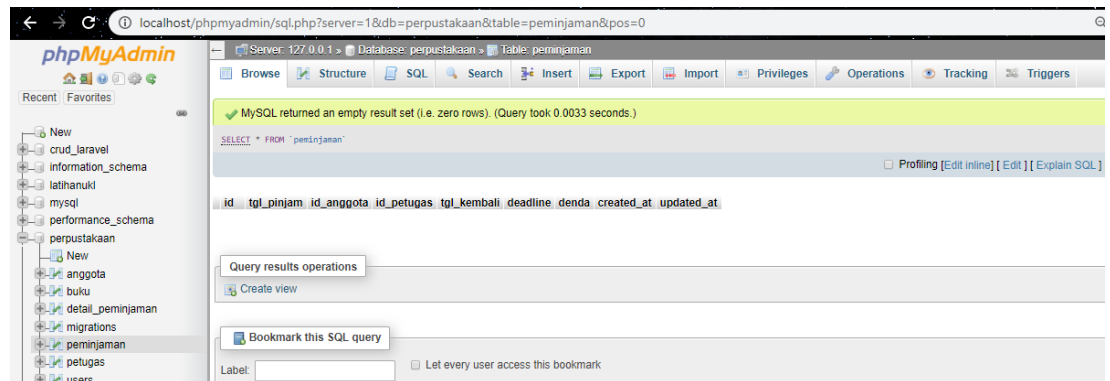
Bookmark this SQL query

Label: Let every user access this bookmark

- Table petugas



- Table peminjam



- Table detail_peminjam

