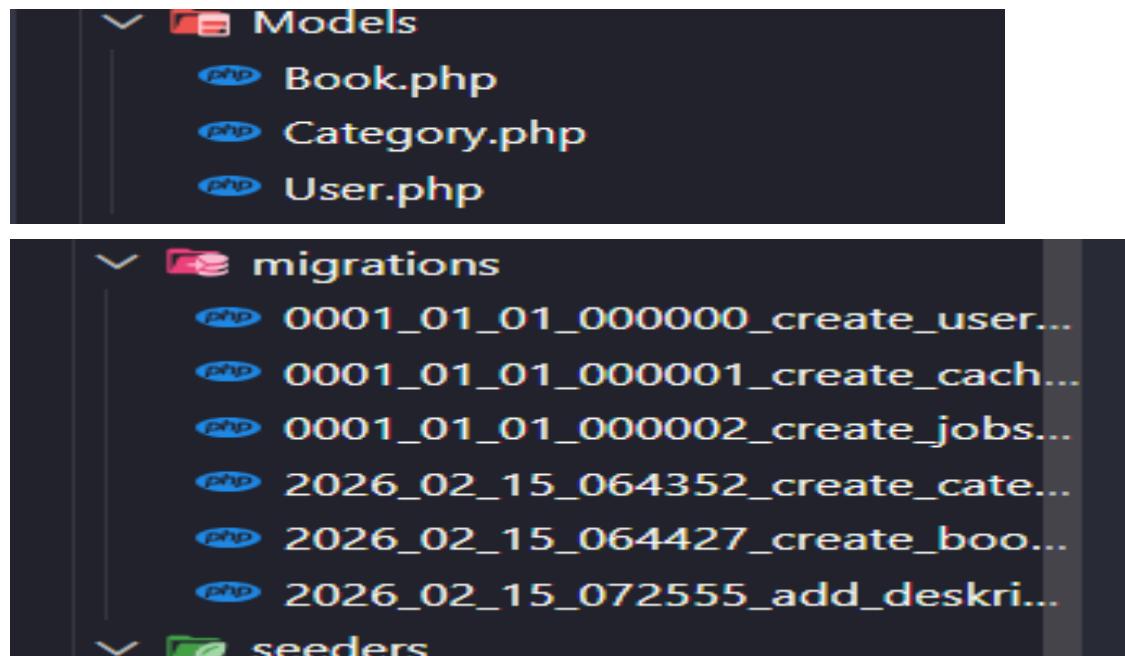


Nama : Richard Caesar
Nim : 09020282428031



Deskripsi

```
<?php

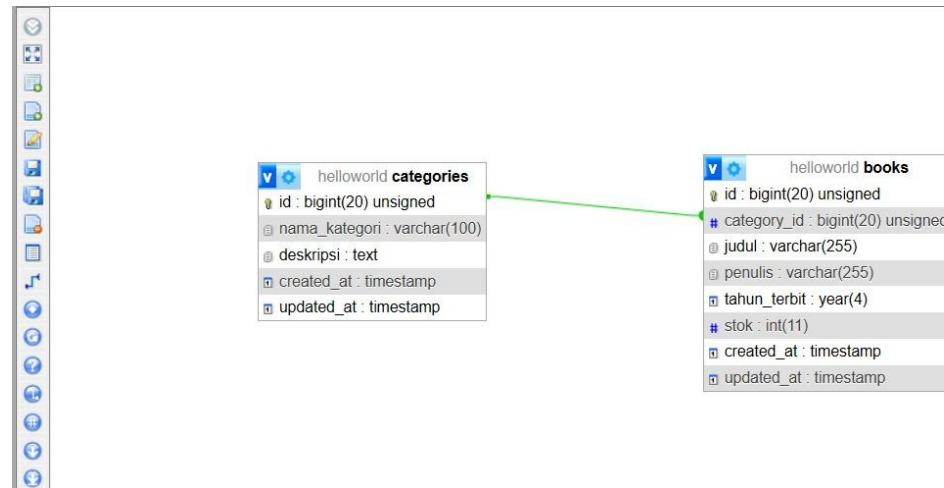
use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up()
    {
        Schema::table('categories', function (Blueprint $table) {
            // Menambah kolom deskripsi setelah nama_kategori
            $table->text('deskripsi')->nullable()->after('nama_kategori');
        });
    }
}
```

```

public function down()
{
    Schema::table('categories', function (Blueprint $table) {
        // Menghapus kolom jika di-rollback
        $table->dropColumn('deskripsi');
    });
}

```



Tabel	Tindakan	Baris	Jenis	Penyortiran	Ukuran	Beban
books	★ Jelajahi Struktur Cari □ Tambahkan Kosongkan Hapus	4	InnoDB	utf8mb4_unicode_ci	32.0 KB	-
cache	★ Jelajahi Struktur Cari □ Tambahkan Kosongkan Hapus	0	InnoDB	utf8mb4_unicode_ci	32.0 KB	-
cache_locks	★ Jelajahi Struktur Cari □ Tambahkan Kosongkan Hapus	0	InnoDB	utf8mb4_unicode_ci	32.0 KB	-
categories	★ Jelajahi Struktur Cari □ Tambahkan Kosongkan Hapus	6	InnoDB	utf8mb4_unicode_ci	32.0 KB	-
failed_jobs	★ Jelajahi Struktur Cari □ Tambahkan Kosongkan Hapus	0	InnoDB	utf8mb4_unicode_ci	32.0 KB	-
jobs	★ Jelajahi Struktur Cari □ Tambahkan Kosongkan Hapus	0	InnoDB	utf8mb4_unicode_ci	32.0 KB	-
job_batches	★ Jelajahi Struktur Cari □ Tambahkan Kosongkan Hapus	0	InnoDB	utf8mb4_unicode_ci	16.0 KB	-
migrations	★ Jelajahi Struktur Cari □ Tambahkan Kosongkan Hapus	6	InnoDB	utf8mb4_unicode_ci	16.0 KB	-
password_reset_tokens	★ Jelajahi Struktur Cari □ Tambahkan Kosongkan Hapus	0	InnoDB	utf8mb4_unicode_ci	16.0 KB	-
sessions	★ Jelajahi Struktur Cari □ Tambahkan Kosongkan Hapus	0	InnoDB	utf8mb4_unicode_ci	48.0 KB	-
users	★ Jelajahi Struktur Cari □ Tambahkan Kosongkan Hapus	0	InnoDB	utf8mb4_unicode_ci	32.0 KB	-
11 tabel	Jumlah	16	InnoDB	utf8mb4_general_ci	320.0 KB	0 B

BOOKS

Extra options

	Ubah	Salin	Hapus	id	category_id	judul	penulis	tahun_terbit	stok	created_at	updated_at
<input type="checkbox"/>	Ubah	Salin	Hapus	1	1	Laravel Dasar	Taylor	2024	5	NULL	NULL
<input type="checkbox"/>	Ubah	Salin	Hapus	2	2	Fisika Modern	Einstein	2020	3	NULL	NULL
<input type="checkbox"/>	Ubah	Salin	Hapus	3	1	Laravel Dasar	Taylor	2024	5	NULL	NULL
<input type="checkbox"/>	Ubah	Salin	Hapus	4	2	Fisika Modern	Einstein	2020	3	NULL	NULL

↑ Pilih Semua Dengan pilihan:

Categories

Tampilkan semua		Jumlah baris:	25	Saring baris:	Cari di tabel ini	Sort by key:	Tidak ada	▼
Extra options								
	← T →	▼ id	nama_kategori	deskripsi	created_at	updated_at		
<input type="checkbox"/>	 Ubah	 Salin	 Hapus	1 Teknologi	Buku tentang pemrograman dan gadget	2026-02-15 07:35:03	2026-02-15 07:35:03	
<input type="checkbox"/>	 Ubah	 Salin	 Hapus	2 Sains	Buku ilmu pengetahuan alam	2026-02-15 07:35:03	2026-02-15 07:35:03	
<input type="checkbox"/>	 Ubah	 Salin	 Hapus	3 Sastra	Novel, puisi, dan prosa	2026-02-15 07:35:03	2026-02-15 07:35:03	
<input type="checkbox"/>	 Ubah	 Salin	 Hapus	4 Teknologi	Buku tentang pemrograman dan gadget	2026-02-15 07:45:35	2026-02-15 07:45:35	
<input type="checkbox"/>	 Ubah	 Salin	 Hapus	5 Sains	Buku ilmu pengetahuan alam	2026-02-15 07:45:35	2026-02-15 07:45:35	
<input type="checkbox"/>	 Ubah	 Salin	 Hapus	6 Sastra	Novel, puisi, dan prosa	2026-02-15 07:45:35	2026-02-15 07:45:35	

MIGRATIONS

```
2026_02_15_072555_add_deskripsi_to_categories_table.php 2026_02_15_064352_create_categories_table.php Book.php ▾
```

database > migrations > 2026_02_15_064352_create_categories_table.php

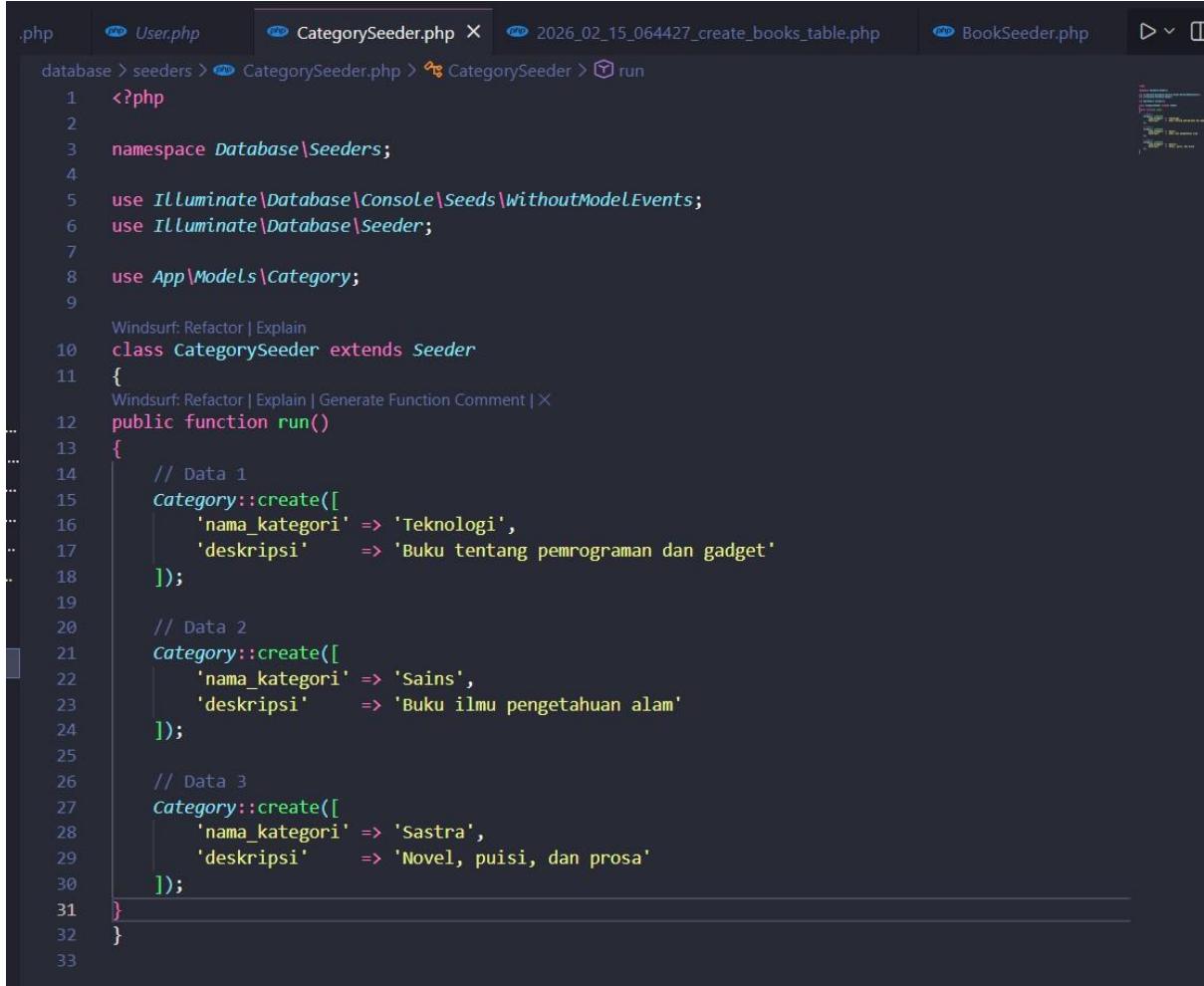
```
1 <?php
2
3 use Illuminate\Database\Migrations\Migration;
4 use Illuminate\Database\Schema\Blueprint;
5 use Illuminate\Support\Facades\Schema;
6
7 return new class extends Migration
8 {
9     /**
10      * Run the migrations.
11      */
12     Windsurf: Refactor | Explain | X
13     public function up(): void
14     {
15         Schema::create('categories', function (Blueprint $table) {
16             $table->id();
17             $table->string('nama_kategori', 100);
18             $table->timestamps();
19         });
20     }
21
22     /**
23      * Reverse the migrations.
24      */
25     Windsurf: Refactor | Explain | X
26     public function down(): void
27     {
28         Schema::dropIfExists('categories');
29     }
30 };
```

```
ok.php Category.php User.php CategorySeeder.php 2026_02_15_064427_create_books_table.php ▾ ...  
database > migrations > 2026_02_15_064427_create_books_table.php  
1 <?php  
2  
3 use Illuminate\Database\Migrations\Migration;  
4 use Illuminate\Database\Schema\Blueprint;  
5 use Illuminate\Support\Facades\Schema;  
6  
7 return new class extends Migration  
8 {  
9     /**  
10      * Run the migrations.  
11      */  
12     public function up(): void  
13     {  
14         Schema::create('books', function (Blueprint $table) {  
15             $table->id();  
16             $table->foreignId('category_id')->constrained()->onDelete('cascade');  
17             $table->string('judul');  
18             $table->string('penulis');  
19             $table->year('tahun_terbit');  
20             $table->integer('stok');  
21             $table->timestamps();  
22         });  
23     }  
24     /**  
25      * Reverse the migrations.  
26      */  
27     public function down(): void  
28     {  
29         Schema::dropIfExists('books');  
30     }  
31 };  
32  
33 };  
34
```

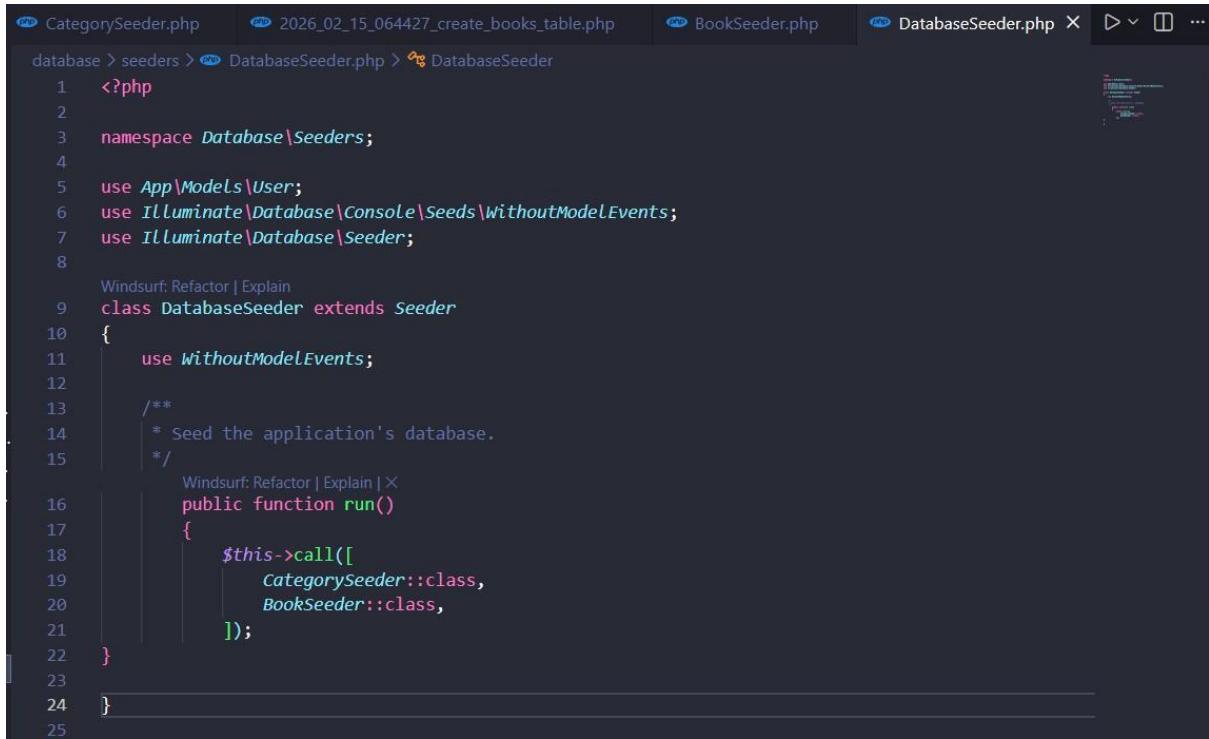
```
2026_02_15_072555_add_deskripsi_to_categories_table.php 2026_02_15_064352_create_categories_table.php Book.php ▾ ...  
database > migrations > 2026_02_15_072555_add_deskripsi_to_categories_table.php  
1 <?php  
2  
3 use Illuminate\Database\Migrations\Migration;  
4 use Illuminate\Database\Schema\Blueprint;  
5 use Illuminate\Support\Facades\Schema;  
6  
7 return new class extends Migration  
8 {  
9     /**  
10      * Run the migrations.  
11      */  
12     public function up()  
13     {  
14         Schema::table('categories', function (Blueprint $table) {  
15             // Menambah kolom deskripsi setelah nama_kategori  
16             $table->text('deskripsi')->nullable()->after('nama_kategori');  
17         });  
18     }  
19     Windsurf: Refactor | Explain | Generate Function Comment |  
20     public function down()  
21     {  
22         Schema::table('categories', function (Blueprint $table) {  
23             // Menghapus kolom jika di-rollback  
24             $table->dropColumn('deskripsi');  
25         });  
26     }  
27 };  
28
```

SEEDERS

```
database > seeders > BookSeeder.php > ...
1  <?php
2
3  namespace Database\Seeders;
4
5  use Illuminate\Database\Console\Seeds\WithoutModelEvents;
6  use Illuminate\Database\Seeder;
7
8  use App\Models\Book;
9
10
11 class BookSeeder extends Seeder
12 {
13     public function run()
14     {
15         Book::insert([
16             [
17                 'category_id' => 1,
18                 'judul' => 'Laravel Dasar',
19                 'penulis' => 'Taylor',
20                 'tahun_terbit' => 2024,
21                 'stok' => 5
22             ],
23             [
24                 'category_id' => 2,
25                 'judul' => 'Fisika Modern',
26                 'penulis' => 'Einstein',
27                 'tahun_terbit' => 2020,
28                 'stok' => 3
29             ],
30         ]);
31     }
32 }
```



```
.php User.php CategorySeeder.php X 2026_02_15_064427_create_books_table.php BookSeeder.php D v ...  
database > seeders > CategorySeeder.php > CategorySeeder > run  
1 <?php  
2  
3 namespace Database\Seeders;  
4  
5 use Illuminate\Database\Console\Seeds\WithoutModelEvents;  
6 use Illuminate\Database\Seeder;  
7  
8 use App\Models\Category;  
9  
Windsurf: Refactor | Explain  
10 class CategorySeeder extends Seeder  
11 {  
Windsurf: Refactor | Explain | Generate Function Comment | X  
12 public function run()  
13 {  
14     // Data 1  
15     category::create([  
16         'nama_kategori' => 'Teknologi',  
17         'deskripsi'      => 'Buku tentang pemrograman dan gadget'  
18     ]);  
19  
20     // Data 2  
21     category::create([  
22         'nama_kategori' => 'Sains',  
23         'deskripsi'      => 'Buku ilmu pengetahuan alam'  
24     ]);  
25  
26     // Data 3  
27     category::create([  
28         'nama_kategori' => 'Sastra',  
29         'deskripsi'      => 'Novel, puisi, dan prosa'  
30     ]);  
31 }  
32 }  
33
```



```
CategorySeeder.php 2026_02_15_064427_create_books_table.php BookSeeder.php DatabaseSeeder.php X D v ...  
database > seeders > DatabaseSeeder.php > DatabaseSeeder  
1 <?php  
2  
3 namespace Database\Seeders;  
4  
5 use App\Models\User;  
6 use Illuminate\Database\Console\Seeds\WithoutModelEvents;  
7 use Illuminate\Database\Seeder;  
8  
Windsurf: Refactor | Explain  
9 class DatabaseSeeder extends Seeder  
10 {  
11     use WithoutModelEvents;  
12  
13     /**  
14     * Seed the application's database.  
15     */  
16     public function run()  
17     {  
18         $this->call([  
19             CategorySeeder::class,  
20             BookSeeder::class,  
21         ]);  
22     }  
23  
24 }  
25
```