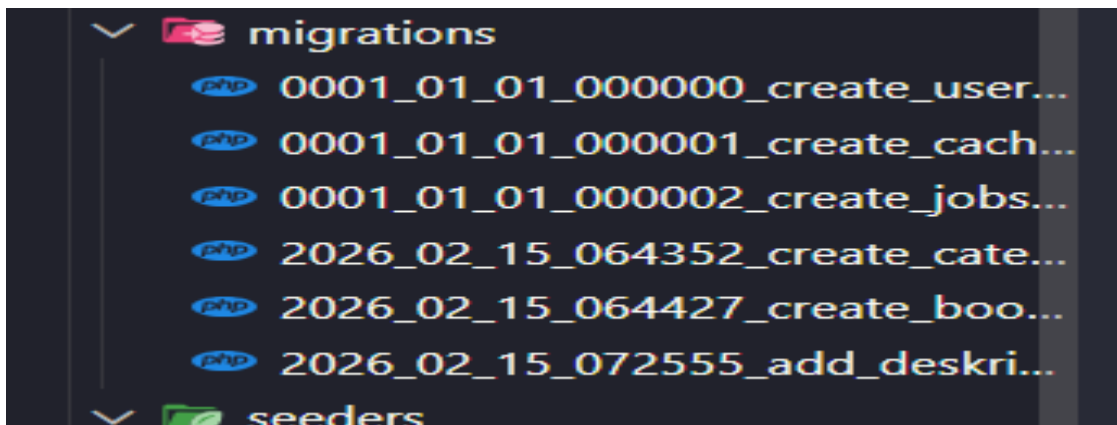
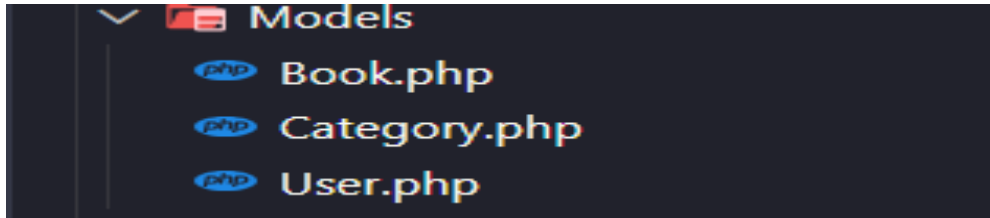


Nama : Richard Caesar
Nim : 09020282428031



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
<input type="checkbox"/> books	★ Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	4	InnoDB	utf8mb4_unicode_ci	32.0 KB	-
<input type="checkbox"/> cache	★ Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	0	InnoDB	utf8mb4_unicode_ci	32.0 KB	-
<input type="checkbox"/> cache_locks	★ Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	0	InnoDB	utf8mb4_unicode_ci	32.0 KB	-
<input type="checkbox"/> categories	★ Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	6	InnoDB	utf8mb4_unicode_ci	32.0 KB	-
<input type="checkbox"/> failed_jobs	★ Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	0	InnoDB	utf8mb4_unicode_ci	32.0 KB	-
<input type="checkbox"/> jobs	★ Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	0	InnoDB	utf8mb4_unicode_ci	32.0 KB	-
<input type="checkbox"/> job_batches	★ Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	0	InnoDB	utf8mb4_unicode_ci	16.0 KB	-
<input type="checkbox"/> migrations	★ Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	6	InnoDB	utf8mb4_unicode_ci	16.0 KB	-
<input type="checkbox"/> password_reset_tokens	★ Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	0	InnoDB	utf8mb4_unicode_ci	16.0 KB	-
<input type="checkbox"/> sessions	★ Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	0	InnoDB	utf8mb4_unicode_ci	48.0 KB	-
<input type="checkbox"/> 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

11 tabel Jumlah 16 InnoDB utf8mb4_general_ci 320.0 KB 0 B

BOOKS

Extra options

	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: Ubah Salin Hapus Ekspor

Categories

☐ Tampilkan semua | Jumlah baris: 25 | Saring baris: Cari di tabel ini | Sort by key: Tidak ada

Extra options

		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

☐ Pilih Semua | Dengan pilihan: Ubah Salin Hapus Ekspor

MIGRATIONS

```

2026_02_15_072555_add_deskripsi_to_categories_table.php 2026_02_15_064352_create_categories_table.php X 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   };
  
```

```
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
26     /**
27      * Reverse the migrations.
28      */
29     public function down(): void
30     {
31         Schema::dropIfExists('books');
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
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 class BookSeeder extends Seeder
11 {
12     public function run()
13     {
14         Book::insert([
15             [
16                 'category_id' => 1,
17                 'judul' => 'Laravel Dasar',
18                 'penulis' => 'Taylor',
19                 'tahun_terbit' => 2024,
20                 'stok' => 5
21             ],
22             [
23                 'category_id' => 2,
24                 'judul' => 'Fisika Modern',
25                 'penulis' => 'Einstein',
26                 'tahun_terbit' => 2020,
27                 'stok' => 3
28             ]
29         ]);
30     }
31 }
32
```

```
.php User.php CategorySeeder.php X 2026_02_15_064427_create_books_table.php BookSeeder.php
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
10 class CategorySeeder extends Seeder
11 {
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 ...
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
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
```