

Rafif Tri Hartanto

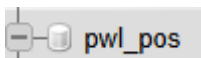
SIB 2A

26

Jobsheet 3 PWL

Praktikum 1

1.



2.

```
APP_NAME=Laravel
APP_ENV=local
APP_KEY=base64:Uo6+d1P5cjXo+s6ECvPg4LaNWL0RiH7o8D2yQG4wGGM=
APP_DEBUG=true
APP_URL=http://localhost
```

3.

```
DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=PWL_POS
DB_USERNAME=root
DB_PASSWORD=
```

Praktikum 2.1

1.

```
PS F:\PWL2025\PWL_Week2\POS> php artisan make:migration create_m_level_table --create=m_level
[INFO] Migration [F:\PWL2025\PWL_Week2\POS\database\migrations\2025_03_04_062048_create_m_level_table.php] created successfully.
```

2.

```
public function up(): void
{
    Schema::create('m_level', function (Blueprint $table) {
        $table->id('level_id');
        $table->string('level_kode', 10)->unique();
        $table->string('level_nama', 100);
        $table->timestamps();
    });
}
```

3.

```
PS F:\PWL2025\PWL_Week2\POS> php artisan migrate

INFO Preparing database.

Creating migration table .....

INFO Running migrations.

2014_10_12_000000_create_users_table .....
2014_10_12_100000_create_password_reset_tokens_table ..
2019_08_19_000000_create_failed_jobs_table .....
2019_12_14_000001_create_personal_access_tokens_table .
2025_03_04_062048_create_m_level_table .....
```

4.

	Tabel	Tindakan
<input type="checkbox"/>	failed_jobs	★
<input type="checkbox"/>	migrations	★
<input type="checkbox"/>	m_level	★
<input type="checkbox"/>	password_reset_tokens	★
<input type="checkbox"/>	personal_access_tokens	★
<input type="checkbox"/>	users	★

5.

```
+ m_kategori

<?php

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

return new class extends Migration {
    public function up(): void
    {
        Schema::create('m_kategori', function (Blueprint $table) {
            $table->id('kategori_id');
            $table->string('kategori_kode', 10)->unique();
            $table->string('kategori_nama', 100);
            $table->timestamps();
        });
    }

    public function down(): void
    {
        Schema::dropIfExists('m_kategori');
    }
};
```

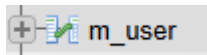
Praktikum 2.2

1.

```
public function up(): void
{
    Schema::table('m_user', function (Blueprint $table) {
        $table->id('user_id');
        $table->unsignedBigInteger('level_id')->index(); //indexing untuk foreign key
        $table->string('username', 20)->unique();
        $table->string('nama', 100);
        $table->string('password');
        $table->timestamps();

        // mendefinisikan foreign key pada kolom level_id mengacu pada kolom level_id di tabel m_level
        $table->foreign('level_id')->references('level_id')->on('m_level');
    });
}
```

2.



3.

```
return new class extends Migration {
    public function up(): void
    {
        Schema::create('m_barang', function (Blueprint $table) {
            $table->id('barang_id'); // Primary Key
            $table->unsignedBigInteger('kategori_id'); // Foreign Key ke m_kategori
            $table->string('barang_kode', 20)->unique();
            $table->string('barang_nama', 100);
            $table->integer('harga');
            $table->integer('stok')->default(0);
            $table->timestamps();

            // Foreign Key
            $table->foreign('kategori_id')->references('kategori_id')->on('m_kategori')->onDelete('cascade');
        });
    }
}

return new class extends Migration {
    public function up(): void
    {
        Schema::create('t_penjualan', function (Blueprint $table) {
            $table->id('penjualan_id'); // Primary Key
            $table->unsignedBigInteger('user_id'); // Foreign Key ke m_user
            $table->date('tanggal_penjualan');
            $table->integer('total_harga');
            $table->timestamps();

            // Foreign Key
            $table->foreign('user_id')->references('user_id')->on('m_user')->onDelete('cascade');
        });
    }
}
```

```

return new class extends Migration {
    public function up(): void
    {
        Schema::create('t_stok', function (Blueprint $table) {
            $table->id('stok_id'); // Primary Key
            $table->unsignedBigInteger('barang_id'); // Foreign Key ke m_barang
            $table->integer('stok_masuk')->default(0);
            $table->integer('stok_keluar')->default(0);
            $table->date('tanggal_stok');
            $table->timestamps();

            // Foreign Key
            $table->foreign('barang_id')->references('barang_id')->on('m_barang')->onDelete('cascade');
        });
    }
}

```

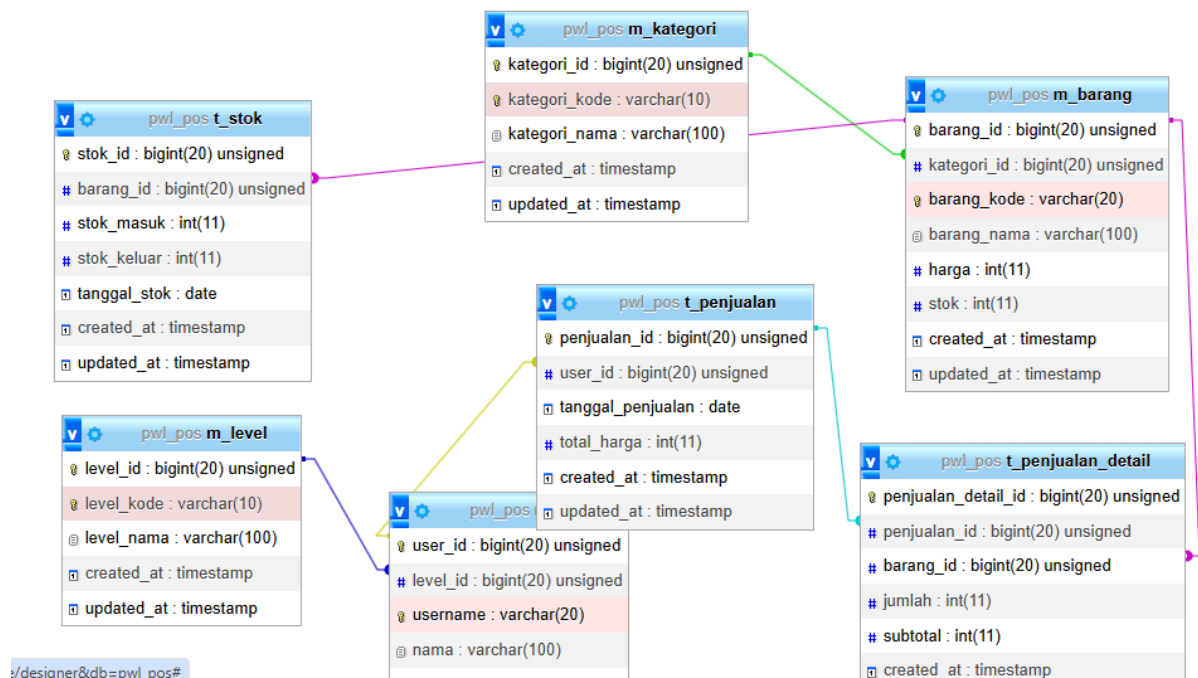
```

return new class extends Migration {
    public function up(): void
    {
        Schema::create('t_penjualan_detail', function (Blueprint $table) {
            $table->id('penjualan_detail_id'); // Primary Key
            $table->unsignedBigInteger('penjualan_id'); // Foreign Key ke t_penjualan
            $table->unsignedBigInteger('barang_id'); // Foreign Key ke m_barang
            $table->integer('jumlah');
            $table->integer('subtotal');
            $table->timestamps();

            // Foreign Keys
            $table->foreign('penjualan_id')->references('penjualan_id')->on('t_penjualan')->onDelete('cascade');
            $table->foreign('barang_id')->references('barang_id')->on('m_barang')->onDelete('cascade');
        });
    }
}

```

4.



Praktikum 3

1.










```
<?php

namespace Database\Seeders;

use Illuminate\Database\Console\Seeds\WithoutModelEvents;
use Illuminate\Database\Seeder;
use Illuminate\Support\Facades\DB;

class LevelSeeder extends Seeder
{
    /**
     * Run the database seeds.
     */
    public function run(): void
    {
        $data = [
            ['level_id' => 1, 'level_kode' => 'ADM', 'level_nama' => 'Administrator'],
            ['level_id' => 2, 'level_kode' => 'MNG', 'level_nama' => 'Manager'],
            ['level_id' => 3, 'level_kode' => 'STF', 'level_nama' => 'Staff/Kasir'],
        ];
        DB::table('m_level')->insert($data);
    }
}
```

2.

				level_id	level_kode	level_nama	created_at	updated_at
<input type="checkbox"/>	 Ubah	 Salin	 Hapus	1	ADM	Administrator	NULL	NULL
<input type="checkbox"/>	 Ubah	 Salin	 Hapus	2	MNG	Manager	NULL	NULL
<input type="checkbox"/>	 Ubah	 Salin	 Hapus	3	STF	Staff/Kasir	NULL	NULL

3.

```
<?php

namespace Database\Seeders;

use Illuminate\Database\Seeder;
use Illuminate\Support\Facades\DB;
use Illuminate\Support\Facades\Hash; |
```

```








class UserSeeder extends Seeder

/**
 * Run the database seeds.
 */
public function run(): void
{
    $data = [
        [
            'user_id' => 1,
            'level_id' => 1,
            'username' => 'admin',
            'nama' => 'Administrator',
            'password' => Hash::make('12345'), // Hash password
        ],
        [
            'user_id' => 2,
            'level_id' => 2,
            'username' => 'manager',
            'nama' => 'Manager',
            'password' => Hash::make('12345'),
        ],
        [
            'user_id' => 3,
            'level_id' => 3,
            'username' => 'staff',
            'nama' => 'Staff/Kasir',
            'password' => Hash::make('12345'),
        ],
    ];

    DB::table('m_user')->insert($data);
}

```

4.

			user_id	level_id	username	nama	password	created_at	updated_at	
<input type="checkbox"/>	 Ubah	 Salin	 Hapus	1	1	admin	Administrator	\$2y\$12\$cbaN4Sh/xhCv/K13KjnkNO.5KbwlbhFRVFzUiyGYsB...	NULL	NULL
<input type="checkbox"/>	 Ubah	 Salin	 Hapus	2	2	manager	Manager	\$2y\$12\$gdAoqf.2h2JpP..Fu0gGnOUfBjZpAJu.k0FX.s.sUzM...	NULL	NULL
<input type="checkbox"/>	 Ubah	 Salin	 Hapus	3	3	staff	Staff/Kasir	\$2y\$12\$ALjnlhjiITM1bd0pLXntXuULKQa6ywy3qzL/6J/ B3b...	NULL	NULL

5.

```
<?php

namespace Database\Seeders;

use Illuminate\Database\Seeder;
use Illuminate\Support\Facades\DB;

class KategoriSeeder extends Seeder
{
    public function run(): void
    {
        $data = [
            ['kategori_id' => 1, 'kategori_kode' => 'FB', 'kategori_nama' => 'Food & Beverage'],
            ['kategori_id' => 2, 'kategori_kode' => 'BH', 'kategori_nama' => 'Beauty & Health'],
            ['kategori_id' => 3, 'kategori_kode' => 'HC', 'kategori_nama' => 'Home Care'],
            ['kategori_id' => 4, 'kategori_kode' => 'BK', 'kategori_nama' => 'Baby & Kid'],
            ['kategori_id' => 5, 'kategori_kode' => 'EL', 'kategori_nama' => 'Electronics'],
        ];

        DB::table('m_kategori')->insert($data);
    }
}
```

				kategori_id	kategori_kode	kategori_nama	created_at	updated_at	
<input type="checkbox"/>		Ubah	 Salin	 Hapus	1	FB	Food & Beverage	NULL	NULL
<input type="checkbox"/>		Ubah	 Salin	 Hapus	2	BH	Beauty & Health	NULL	NULL
<input type="checkbox"/>		Ubah	 Salin	 Hapus	3	HC	Home Care	NULL	NULL
<input type="checkbox"/>		Ubah	 Salin	 Hapus	4	BK	Baby & Kid	NULL	NULL
<input type="checkbox"/>		Ubah	 Salin	 Hapus	5	EL	Electronics	NULL	NULL

```
<?php

namespace Database\Seeders;

use Illuminate\Database\Seeder;
use Illuminate\Support\Facades\DB;

class BarangSeeder extends Seeder
{
    public function run(): void
    {
        $data = [
            ['barang_id' => 1, 'kategori_id' => 1, 'barang_kode' => 'B001', 'barang_nama' => 'Nasi Goreng', 'harga' => 10000],
            ['barang_id' => 2, 'kategori_id' => 1, 'barang_kode' => 'B002', 'barang_nama' => 'Mie Ayam', 'harga' => 10000],
            ['barang_id' => 3, 'kategori_id' => 1, 'barang_kode' => 'B003', 'barang_nama' => 'Teh Botol', 'harga' => 10000],
            ['barang_id' => 4, 'kategori_id' => 2, 'barang_kode' => 'B004', 'barang_nama' => 'Shampoo', 'harga' => 20000],
            ['barang_id' => 5, 'kategori_id' => 2, 'barang_kode' => 'B005', 'barang_nama' => 'Sabun Mandi', 'harga' => 20000],
            ['barang_id' => 6, 'kategori_id' => 3, 'barang_kode' => 'B006', 'barang_nama' => 'Detergen', 'harga' => 20000],
            ['barang_id' => 7, 'kategori_id' => 3, 'barang_kode' => 'B007', 'barang_nama' => 'Pewangi Ruangan', 'harga' => 20000],
            ['barang_id' => 8, 'kategori_id' => 4, 'barang_kode' => 'B008', 'barang_nama' => 'Susu Formula', 'harga' => 20000],
            ['barang_id' => 9, 'kategori_id' => 4, 'barang_kode' => 'B009', 'barang_nama' => 'Pampers', 'harga' => 20000],
            ['barang_id' => 10, 'kategori_id' => 5, 'barang_kode' => 'B010', 'barang_nama' => 'Headset', 'harga' => 20000],
        ];

        DB::table('m_barang')->insert($data);
    }
}
```

		barang_id	kategori_id	barang_kode	barang_nama	harga	stok	created_at	updated_at
<input type="checkbox"/>	Ubah Salin Hapus	1	1	B001	Nasi Goreng	20000	0	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	2	1	B002	Mie Ayam	18000	0	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	3	1	B003	Teh Botol	5000	0	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	4	2	B004	Shampoo	25000	0	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	5	2	B005	Sabun Mandi	10000	0	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	6	3	B006	Detergen	15000	0	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	7	3	B007	Pewangi Ruangan	18000	0	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	8	4	B008	Susu Formula	50000	0	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	9	4	B009	Pampers	55000	0	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	10	5	B010	Headset	75000	0	NULL	NULL

```

namespace Database\Seeders;

use Illuminate\Database\Seeder;
use Illuminate\Support\Facades\DB;
use Carbon\Carbon;

class StokSeeder extends Seeder
{
    public function run(): void
    {
        $data = [
            ['barang_id' => 1, 'stok_masuk' => 30, 'stok_keluar' => 5, 'tanggal_stok' => Carbon::now()],
            ['barang_id' => 2, 'stok_masuk' => 56, 'stok_keluar' => 10, 'tanggal_stok' => Carbon::now()],
            ['barang_id' => 3, 'stok_masuk' => 64, 'stok_keluar' => 8, 'tanggal_stok' => Carbon::now()],
            ['barang_id' => 4, 'stok_masuk' => 92, 'stok_keluar' => 15, 'tanggal_stok' => Carbon::now()],
            ['barang_id' => 5, 'stok_masuk' => 92, 'stok_keluar' => 12, 'tanggal_stok' => Carbon::now()],
            ['barang_id' => 6, 'stok_masuk' => 79, 'stok_keluar' => 20, 'tanggal_stok' => Carbon::now()],
            ['barang_id' => 7, 'stok_masuk' => 85, 'stok_keluar' => 18, 'tanggal_stok' => Carbon::now()],
            ['barang_id' => 8, 'stok_masuk' => 10, 'stok_keluar' => 2, 'tanggal_stok' => Carbon::now()],
            ['barang_id' => 9, 'stok_masuk' => 38, 'stok_keluar' => 5, 'tanggal_stok' => Carbon::now()],
            ['barang_id' => 10, 'stok_masuk' => 68, 'stok_keluar' => 7, 'tanggal_stok' => Carbon::now()],
        ];

        DB::table('t_stok')->insert($data);
    }
}

```

		stok_id	barang_id	stok_masuk	stok_keluar	tanggal_stok	created_at	updated_at
<input type="checkbox"/>	Ubah Salin Hapus	1	1	30	5	2025-03-05	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	2	2	56	10	2025-03-05	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	3	3	64	8	2025-03-05	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	4	4	92	15	2025-03-05	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	5	5	92	12	2025-03-05	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	6	6	79	20	2025-03-05	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	7	7	85	18	2025-03-05	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	8	8	10	2	2025-03-05	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	9	9	38	5	2025-03-05	NULL	NULL
<input type="checkbox"/>	Ubah Salin Hapus	10	10	68	7	2025-03-05	NULL	NULL


```

<?php

namespace Database\Seeders;

use Illuminate\Database\Seeder;
use Illuminate\Support\Facades\DB;
use Carbon\Carbon;

class PenjualanSeeder extends Seeder
{
    public function run(): void
    {
        $data = [];

        for ($i = 1; $i <= 10; $i++) {
            $data[] = [
                'user_id' => rand(1, 3),
                'tanggal_penjualan' => Carbon::now()->subDays(rand(1, 30))->toDateString(),
                'total_harga' => rand(50000, 200000),
                'created_at' => Carbon::now(),
                'updated_at' => Carbon::now(),
            ];
        }

        DB::table('t_penjualan')->insert($data);
    }
}

```

▼  				penjualan_id	user_id	tanggal_penjualan	total_harga	created_at	updated_at
<input type="checkbox"/>				1	3	2025-02-13	198617	2025-03-05 03:29:47	2025-03-05 03:29:47
<input type="checkbox"/>				2	2	2025-02-12	54827	2025-03-05 03:29:47	2025-03-05 03:29:47
<input type="checkbox"/>				3	2	2025-02-15	97334	2025-03-05 03:29:47	2025-03-05 03:29:47
<input type="checkbox"/>				4	2	2025-02-11	161645	2025-03-05 03:29:47	2025-03-05 03:29:47
<input type="checkbox"/>				5	1	2025-02-05	178713	2025-03-05 03:29:47	2025-03-05 03:29:47
<input type="checkbox"/>				6	2	2025-02-04	163429	2025-03-05 03:29:47	2025-03-05 03:29:47
<input type="checkbox"/>				7	1	2025-02-08	179855	2025-03-05 03:29:47	2025-03-05 03:29:47
<input type="checkbox"/>				8	1	2025-02-21	126795	2025-03-05 03:29:47	2025-03-05 03:29:47
<input type="checkbox"/>				9	1	2025-02-06	115251	2025-03-05 03:29:47	2025-03-05 03:29:47
<input type="checkbox"/>				10	2	2025-02-15	161904	2025-03-05 03:29:47	2025-03-05 03:29:47

```

class PenjualanDetailSeeder extends Seeder
{
    public function run(): void
    {
        $data = [];

        for ($penjualan_id = 1; $penjualan_id <= 10; $penjualan_id++) {
            // Setiap transaksi memiliki 3 barang yang berbeda
            for ($i = 0; $i < 3; $i++) {
                $barang_id = rand(1, 10); // Barang ID acak dari 1-10
                $jumlah = rand(1, 5); // Jumlah barang acak (1-5)
                $harga_satuan = rand(10000, 50000); // Harga per barang acak
                $subtotal = $jumlah * $harga_satuan;

                $data[] = [
                    'penjualan_id' => $penjualan_id,
                    'barang_id' => $barang_id,
                    'jumlah' => $jumlah,
                    'subtotal' => $subtotal,
                    'created_at' => Carbon::now(),
                    'updated_at' => Carbon::now(),
                ];
            }
        }

        // Masukkan 30 data ke dalam tabel t_penjualan_detail
        DB::table('t_penjualan_detail')->insert($data);
    }
}

```

		penjualan_detail_id	penjualan_id	barang_id	jumlah	subtotal	created_at	updated_at
<input type="checkbox"/>	Ubah Salin Hapus	1	1	3	2	71388	2025-03-05 03:33:24	2025-03-05 03:33:24
<input type="checkbox"/>	Ubah Salin Hapus	2	1	4	1	29090	2025-03-05 03:33:24	2025-03-05 03:33:24
<input type="checkbox"/>	Ubah Salin Hapus	3	1	3	5	74490	2025-03-05 03:33:24	2025-03-05 03:33:24
<input type="checkbox"/>	Ubah Salin Hapus	4	2	2	3	31224	2025-03-05 03:33:24	2025-03-05 03:33:24
<input type="checkbox"/>	Ubah Salin Hapus	5	2	3	5	236855	2025-03-05 03:33:24	2025-03-05 03:33:24
<input type="checkbox"/>	Ubah Salin Hapus	6	2	6	5	125100	2025-03-05 03:33:24	2025-03-05 03:33:24
<input type="checkbox"/>	Ubah Salin Hapus	7	3	7	4	65956	2025-03-05 03:33:24	2025-03-05 03:33:24
<input type="checkbox"/>	Ubah Salin Hapus	8	3	2	1	40405	2025-03-05 03:33:24	2025-03-05 03:33:24
<input type="checkbox"/>	Ubah Salin Hapus	9	3	10	4	107892	2025-03-05 03:33:24	2025-03-05 03:33:24
<input type="checkbox"/>	Ubah Salin Hapus	10	4	4	5	163785	2025-03-05 03:33:24	2025-03-05 03:33:24
<input type="checkbox"/>	Ubah Salin Hapus	11	4	9	1	43342	2025-03-05 03:33:24	2025-03-05 03:33:24
<input type="checkbox"/>	Ubah Salin Hapus	12	4	4	2	41950	2025-03-05 03:33:24	2025-03-05 03:33:24
<input type="checkbox"/>	Ubah Salin Hapus	13	5	10	4	178060	2025-03-05 03:33:24	2025-03-05 03:33:24
<input type="checkbox"/>	Ubah Salin Hapus	14	5	7	3	89319	2025-03-05 03:33:24	2025-03-05 03:33:24
<input type="checkbox"/>	Ubah Salin Hapus	15	5	5	5	84750	2025-03-05 03:33:24	2025-03-05 03:33:24
<input checked="" type="checkbox"/>	Konsol Ubah Salin Hapus	16	6	9	4	189172	2025-03-05 03:33:24	2025-03-05 03:33:24

Praktikum 4

1.

```
use Illuminate\Support\Facades\Route;
use App\Http\Controllers\LevelController;

/*
|-----
| Web Routes
|-----
|
| Here is where you can register web routes for your application.
| routes are loaded by the RouteServiceProvider and all of them will
| be assigned to the "web" middleware group. Make something great.
|
*/











Route::get('/', function () {
    return view('welcome');
});

Route::get('/level/', [LevelController::class, 'index']);
```

2.

Insert data baru berhasil

3.

				level_id	level_kode	level_nama	created_at	updated_at
<input type="checkbox"/>				1	ADM	Administrator	NULL	NULL
<input type="checkbox"/>				2	MNG	Manager	NULL	NULL
<input type="checkbox"/>				3	STF	Staff/Kasir	NULL	NULL
<input type="checkbox"/>				4	CUS	Pelanggan	2025-03-05 05:14:30	2025-03-05 05:14:30

4.

Update data berhasil. Jumlah data yang di update: 1 baris

5.

Delete data berhasil. Jumlah data yang dihapus: 1 baris

6.

Data Level Pengguna

ID	Kode Level	Nama Level
1	ADM	Administrator
2	MNG	Manager
3	STF	Staff/Kasir

Praktikum 5

1.

```
<?php

use Illuminate\Support\Facades\Route;
use App\Http\Controllers\LevelController;
use App\Http\Controllers\KategoriController;

/*
|-----
| Web Routes
|-----
|
| Here is where you can register web routes for your application
| routes are loaded by the RouteServiceProvider and all of them
| be assigned to the "web" middleware group. Make something great
|
*/

Route::get('/', function () {
    return view('welcome');
});

Route::get('/level/', [LevelController::class, 'index']);
Route::get('/kategori', [KategoriController::class, 'index']);
```

2.

```
<?php

namespace App\Http\Controllers;
use Illuminate\Support\Facades\DB;
use Illuminate\Http\Request;

class KategoriController extends Controller
{
    public function index(){
        $data = [
            'kategori_kode' => 'SNK',
            'kategori_nama' => 'Snack/Makanan Ringan',
            'created_at' => now()
        ];
        DB::table('m_kategori')->insert($data);
        return 'Insert data baru berhasil';
    }
}
```

Insert data baru berhasil

				kategori_id	kategori_kode	kategori_nama	created_at	updated_at
<input type="checkbox"/>				1	FB	Food & Beverage	NULL	NULL
<input type="checkbox"/>				2	BH	Beauty & Health	NULL	NULL
<input type="checkbox"/>				3	HC	Home Care	NULL	NULL
<input type="checkbox"/>				4	BK	Baby & Kid	NULL	NULL
<input type="checkbox"/>				5	EL	Electronics	NULL	NULL
<input type="checkbox"/>				6	SNK	Snack/Makanan Ringan	2025-03-05 05:46:57	NULL

3.

```
class KategoriController extends Controller
{
    public function index()  
    {  
        /*$data = [  
            'kategori_kode' => 'SNK',  
            'kategori_nama' => 'Snack/Makanan Ringan',  
            'created_at' => now()  
        ];  
        DB::table('m_kategori')->insert($data);  
        return 'Insert data baru berhasil'; */  
  
        $row =DB::table('m_kategori')->where('kategori_kode', 'SNK')->update(['kategori_nama'=> 'Camilan']);  
        return 'Update data berhasil. Jumlah data yang diupdate: '. $row.' baris';  
    }  
}
```

Update data berhasil. Jumlah data yang diupdate: 1 baris

←T→				kategori_id	kategori_kode	kategori_nama	created_at	updated_at
<input type="checkbox"/>				1	FB	Food & Beverage	NULL	NULL
<input type="checkbox"/>				2	BH	Beauty & Health	NULL	NULL
<input type="checkbox"/>				3	HC	Home Care	NULL	NULL
<input type="checkbox"/>				4	BK	Baby & Kid	NULL	NULL
<input type="checkbox"/>				5	EL	Electronics	NULL	NULL
<input type="checkbox"/>				6	SNK	Camilan	2025-03-05 05:46:57	NULL

4.

```
class KategoriController extends Controller
{
    public function index()  
    {  
        /*$data = [  
            'kategori_kode' => 'SNK',  
            'kategori_nama' => 'Snack/Makanan Ringan',  
            'created_at' => now()  
        ];  
        DB::table('m_kategori')->insert($data);  
        return 'Insert data baru berhasil'; */  
  
        //$row =DB::table('m_kategori')->where('kategori_kode', 'SNK')->update(['kategori_nama'=> 'Camilan']);  
        //return 'Update data berhasil. Jumlah data yang diupdate: '. $row.' baris'  
  
        $row =DB::table('m_kategori')->where('kategori_kode', 'SNK')->delete();  
        return 'Delete data berhasil. Jumlah data yang dihapus: '. $row.' baris';  
    }  
}
```

Delete data berhasil. Jumlah data yang dihapus: 1 baris

<input type="checkbox"/>				5	EL	Electronics	NULL	NULL
--------------------------	--	--	--	---	----	-------------	------	------

5.

```
class KategoriController extends Controller
{
    public function index()  
    {  
        /*$data = [  
            'kategori_kode' => 'SNK',  
            'kategori_nama' => 'Snack/Makanan Ringan',  
            'created_at' => now()  
        ];  
        DB::table('m_kategori')->insert($data);  
        return 'Insert data baru berhasil'; */  
  
        //$row =DB::table('m_kategori')->where('kat  
        //return 'Update data berhasil. Jumlah data  
  
        //$row =DB::table('m_kategori')->where('kat  
        //return 'Delete data berhasil. Jumlah data  
  
        $data= DB::table('m_kategori')->get();  
        return view('kategori', ['data'=> $data]);  
    }  
}
```

```
<!DOCTYPE html>  
<html>  
    <head>  
        <title>Data Kategori Barang</title>  
    </head>  
    <body>  
        <h1>Data Kategori Barang</h1>  
        <table border="1" cellpadding="2" cellspacing="0">  
            <tr>  
                <th>ID</th>  
                <th>Kode Kategori</th>  
                <th>Nama Kategori</th>  
            </tr>  
            @foreach ($data as $d)  
                <tr>  
                    <th>{{ $d-> kategori_id }}</th>  
                    <th>{{ $d-> kategori_kode }}</th>  
                    <th>{{ $d-> kategori_nama }}</th>  
                </tr>  
            @endforeach  
        </table>  
    </body>  
</html>
```

Data Kategori Barang

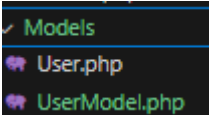
ID	Kode Kategori	Nama Kategori
1	FB	Food & Beverage
2	BH	Beauty & Health
3	HC	Home Care
4	BK	Baby & Kid
5	EL	Electronics

Praktikum 6

1.

```
PS F:\PWL2025\PWL_Week3\PWL_POS> php artisan make:model UserModel
```

INFO Model [F:\PWL2025\PWL_Week3\PWL_POS\app\Models\UserModel.php] created successfully.



2.

```
<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class UserModel extends Model
{
    use HasFactory;

    protected $table = 'm_user'; //menedefinisikan nama tabel yang digunakan oleh model ini
    protected $primaryKey = 'user_id'; //menedefinisikan primary key dari tabel yang digunakan
}
```

3.

```
<?php

use Illuminate\Support\Facades\Route;
use App\Http\Controllers\LevelController;
use App\Http\Controllers\KategoriController;
use App\Http\Controllers\UserController;

/*
|-----
| Web Routes
|-----
|
| Here is where you can register web routes for your application
| routes are loaded by the RouteServiceProvider and all of them
| be assigned to the "web" middleware group. Make something great
|
*/

Route::get('/', function () {
    return view('welcome');
});

Route::get('/level/', [LevelController::class, 'index']);
Route::get('/kategori', [KategoriController::class, 'index']);
Route::get('/user', [UserController::class, 'index']);
```

4.

```
<?php

namespace App\Http\Controllers;

use App\Models\UserModel;
use Illuminate\Http\Request;

class UserController extends Controller
{
    public function index()
    {
        //coba akses model userModel
        $user = UserModel::all(); // ambil semua data dari tabel m_user
        return view('user', ['data'=> $user]);
    }
}
```


5.

```
<!DOCTYPE html>
<html>
  <head>
    <title>Data User</title>
  </head>
  <body>
    <h1>Data User</h1>
    <table border="1" cellpadding="2" cellspacing="0">
      <tr>
        <th>ID</th>
        <th>Username</th>
        <th>ID Level Pengguna</th>
      </tr>
      @foreach ($data as $d)
        <tr>
          <th>{{ $d-> user_id }}</th>
          <th>{{ $d-> username }}</th>
          <th>{{ $d-> nama }}</th>
          <th>{{ $d-> level_id }}</th>
        </tr>
      @endforeach
    </table>
  </body>
</html>
```

6.

```
<?php

namespace App\Http\Controllers;

use App\Models\UserModel;
use Illuminate\Http\Request;
use Illuminate\Support\Facades\Hash;

class UserController extends Controller
{
    public function index()
    {
        // tambah data user dengan eloquent model
        $data = [
            'username' => 'customer-1',
            'nama' => 'Pelanggan',
            'password' => Hash::make('12345'),
            'level_id' => 4
        ];
        UserModel::insert($data); // tambahkan data ke tabel m_user

        //coba akses model userModel
        $user = UserModel::all(); // ambil semua data dari tabel m_user
        return view('user', ['data'=> $user]);
    }
}
```

7.

```
<?php

namespace App\Http\Controllers;

use App\Models\UserModel;
use Illuminate\Http\Request;
use Illuminate\Support\Facades\Hash;

class UserController extends Controller
{
    public function index(){

        // tambah data user dengan eloquent model
        $data = [
            'nama' => 'Pelanggan Pertama',
        ];
        UserModel::where('username', 'customer-1')->update($data); //update dat user

        //coba akses model userModel
        $user = UserModel::all(); // ambil semua data dari tabel m_user
        return view('user', ['data'=> $user]);
    }
}
```

8.

Data User

ID	Username	ID Level Pengguna	
1	admin	Administrator	1
2	manager	Manager	2
3	staff	Staff/Kasir	3
6	customer-1	Pelanggan Pertama	3

Penutup

1. Laravel tidak dapat berjalan dengan benar jika APP_KEY tidak diatur
2. php artisan key:generate
3. Secara default, Laravel memiliki tiga file migrasi, yaitu:
create_users_table.php: Membuat tabel users
create_password_resets_table.php: Membuat tabel password_resets (untuk reset password)

create_failed_jobs_table.php : Membuat tabel failed_jobs (untuk mencatat job yang gagal)

4. Tujuannya untuk mencatat waktu setiap perubahan data secara otomatis
5. Menghasilkan
Tipe data: BIGINT (20) UNSIGNED
Auto Increment: Ya
Primary Key: Ya
6. \$table->id(); Membuat kolom **id** sebagai primary key, sedangkan \$table->id('level_id'); Membuat kolom **level_id** sebagai primary key
7. ->unique() digunakan untuk memastikan bahwa nilai dalam kolom tersebut tidak boleh duplikat.
8. \$table->id('level_id'); pada m_level: Primary key otomatis dengan tipe BIGINT UNSIGNED.
\$table->unsignedBigInteger('level_id'); pada m_user: Foreign key yang merujuk ke level_id pada m_level.
Karena foreign key harus cocok dengan tipe data primary key-nya, maka level_id di m_user harus unsignedBigInteger.
9. Class Hash digunakan untuk mengamankan password dengan hashing.
Kode Hash::make('1234'); akan menghasilkan hash dari password 1234, sehingga tidak bisa dibaca langsung di database.
10. Tanda ? adalah parameter binding, yang digunakan untuk mencegah SQL Injection.
11. protected \$table = 'm_user'; Memberi tahu Eloquent bahwa model ini terhubung ke tabel m_user, bukan users (default Laravel).
protected \$primaryKey = 'user_id'; Menentukan bahwa primary key dari tabel ini adalah user_id, bukan id (default Laravel).
12. Eloquent ORM karena paling mudah dibaca dan digunakan Otomatis mengelola model dan relasi. Lebih aman dari SQL Injection