



NAMA : Dika Arie Arrifky
NIM : 2341720232
KELAS : TI-2A
MATERI : Migration.

Praktikum 1 - pengaturan database:

1. Membuat database PWL_POS

Databases

Create database

PWL_POS

utf8mb4_0900_ai_ci

Create

3. Copy file .env.example menjadi .env

4. Buka file .env, dan pastikan konfigurasi **APP_KEY** bernilai.

```
P1 > Minggu 3 > PWL_POS > .env
1 APP_NAME=Laravel
2 APP_ENV=local
3 APP_KEY=base64:hm+xt+Y+tYD+8hghB/4w9xaF0t1wvYjY1J3wvW7KPo=
4 APP_DEBUG=true
5 APP_URL=http://localhost
6
7 LOG_CHANNEL=stack
8 LOG_DEPRECATIONS_CHANNEL=null
9 LOG_LEVEL=debug
10
11 DB_CONNECTION=mysql
12 DB_HOST=127.0.0.1
13 DB_PORT=3306
14 DB_DATABASE=PWL_POS
15 DB_USERNAME=root
16 DB_PASSWORD=
```

Praktikum 2.1 - Pembuatan file migrasi tanpa relasi

1. buat file migrasi untuk table m_level dengan perintah

```
C:\Windows\System32\cmd.e x + v
Microsoft Windows [Version 10.0.22631.4890]
(c) Microsoft Corporation. All rights reserved.

C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan make:migration create_m_level_table --create=m_level
```



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```
P1 > Minggu 3 > PWL_POS > database > migrations > 2025_02_28_094854_create_m_level_table.php > class > down
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('m_level', function (Blueprint $table): void {
15             $table->id();
16             $table->timestamps();
17         });
18     }
19
20     /**
21      * Reverse the migrations.
22      */
23     public function down(): void
24     {
25         Schema::dropIfExists('m_level');
26     }
27 };
28
```

2. memodifikasi database yang sudah ada

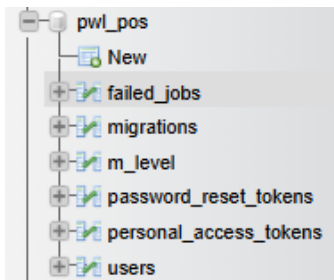
```
Codeium: Refactor | Explain | X
12 public function up(): void
13 {
14     Schema::create('m_level', function (Blueprint $table): void {
15         $table->id('level_id');
16         $table->string('level_kode', 10)->unique();
17         $table->string('level_nama', 100);
18         $table->timestamps();
19     });
20 }
```

3. kemudian ketikkan php migrate pada terminal

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan migrate
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0
INFO Preparing database.
Creating migration table ..... 15ms DONE
INFO Running migrations.
2014_10_12_000000_create_users_table ..... 20ms DONE
2014_10_12_100000_create_password_reset_tokens_table ..... 10ms DONE
2019_08_19_000000_create_failed_jobs_table ..... 23ms DONE
2019_12_14_000001_create_personal_access_tokens_table ..... 37ms DONE
2025_02_28_094854_create_m_level_table ..... 35ms DONE
C:\laragon\www\P1\Minggu 3\PWL_POS>
```



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4. Buat table *database* dengan *migration* untuk table **m_kategori** yang sama-sama tidak memiliki *foreign key*

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan make:migration create_m_level_table --create=m_kategori
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0

INFO Migration [C:\laragon\www\P1\Minggu 3\PWL_POS\database\Migrations\2025_02_28_103141_create_m_level_table.php] c
reated successfully.

C:\laragon\www\P1\Minggu 3\PWL_POS>
```

```
P1 > Minggu 3 > PWL_POS > database > migrations > 2025_02_28_103716_create_m_level_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      Codeium: Refactor | Explain | X
      public function up(): void
13      {
14          Schema::create('m_kategori', function (Blueprint $table): void {
15              $table->id();
16              $table->string('kategori_kode', 10)->unique();
17              $table->string('kategori_nama', 100);
18              $table->timestamps();
19          });
20      }
21
22      /**
23       * Reverse the migrations.
24       */
25      Codeium: Refactor | Explain | X
      public function down(): void
26      {
27          Schema::dropIfExists('m_kategori');
28      }
29  };
30
```

5. ketikkan php artisan migrate

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan migrate
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0

INFO Running migrations.

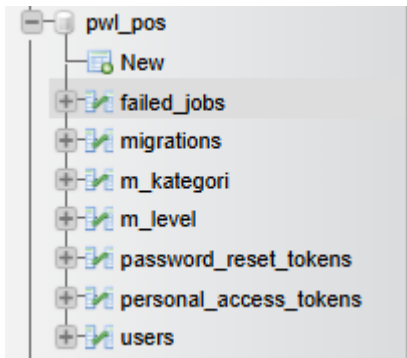
2025_02_28_103141_create_m_level_table ..... 13ms DONE

C:\laragon\www\P1\Minggu 3\PWL_POS>
```



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6. cek di database tabel yang baru dibuat



Praktikum 2.2 - Pembuatan file migrasi dengan relasi

1. Table m_user

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan make:migration create_m_user_table --table=m_user  
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0  
INFO Migration [C:\laragon\www\P1\Minggu 3\PWL_POS\database\Migrations\2025_02_28_104014_create_m_user_table.php] created successfully.  
C:\laragon\www\P1\Minggu 3\PWL_POS>
```

2. memodifikasi file

```
P1 > Minggu 3 > PWL_POS > database > migrations > 2025_02_28_104014_create_m_user_table.php > class > down  
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('m_user', function (Blueprint $table): void {  
15             $table->id('user_id');  
16             $table->unsignedBigInteger('level_id')->index(); // indexing untuk foreign key  
17             $table->string('username', 20)->unique();  
18             $table->string('nama', 100);  
19             $table->string('password');  
20             $table->timestamps();  
21  
22             //mendefinisikan foreign key pada kolom level_id mengacu pada kolom level_id di tabel m_level  
23             $table->foreign('level_id')->references('level_id')->on('m_level');  
24         });  
25     }  
26  
27     /**  
28      * Reverse the migrations.  
29      */  
30     public function down(): void  
31     {  
32         Schema::dropIfExists('m_user');  
33     }  
34 };  
35
```



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3. ketikkan php artisan migrate

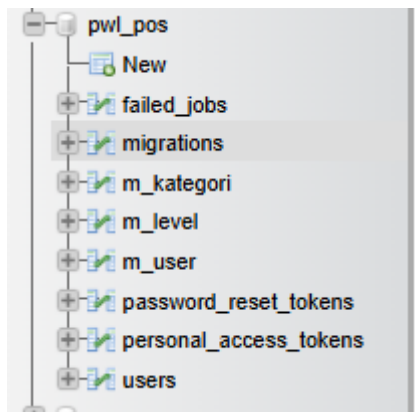
```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan migrate
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0

INFO Running migrations.

2025_02_28_104014_create_m_user_table ..... 42ms DONE

C:\laragon\www\P1\Minggu 3\PWL_POS>
```

4. cek pada database



5.

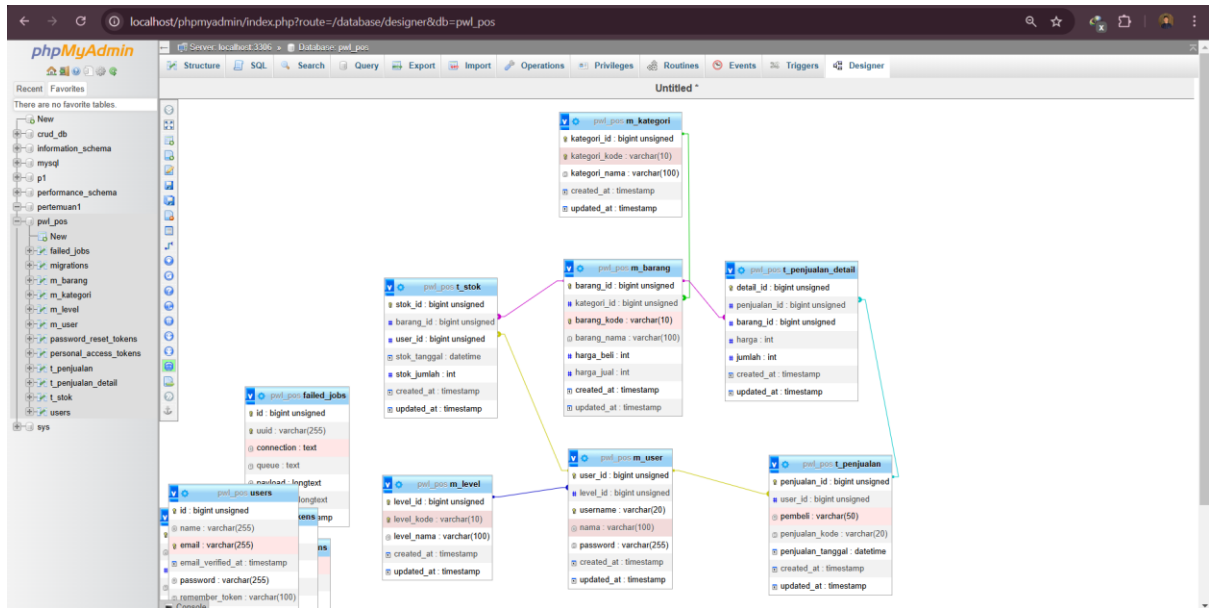
Buat table *database* dengan *migration* untuk table-tabel yang memiliki *foreign key*

m_barang
t_penjualan
t_stok
t_penjualan_detail

Jawab :



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Praktikum 3 – Membuat file seeder

1. membuat seeder

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan make:seeder LevelSeeder
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0
INFO Seeder [C:\laragon\www\P1\Minggu 3\PWL_POS\database\seeders\LevelSeeder.php] created successfully.
C:\laragon\www\P1\Minggu 3\PWL_POS>
```

```
P1 > Minggu 3 > PWL_POS > database > seeders > LevelSeeder.php > ...
1  <?php
2
3  namespace Database\Seeders;
4
5  use Illuminate\Database\Console\Seeds\WithoutModelEvents;
6  use Illuminate\Database\Seeder;
7
8  0 references | 0 implementations | Codeium: Refactor | Explain
9  class LevelSeeder extends Seeder
10 {
11     /**
12      * Run the database seeds.
13      */
14     0 references | 0 overrides | Codeium: Refactor | Explain | X
15     public function run(): void
16     {
17         //
18     }
19 }
```

2. memodif file seedernya



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MATERI : Migration.

```
5 use Illuminate\Database\Console\Seeds\WithoutModelEvents;
6 use Illuminate\Database\Seeder;
7 use Illuminate\Support\Facades\DB;
8
9 0 references | 0 implementations | Codeium: Refactor | Explain
10 class LevelSeeder extends Seeder
11 {
12     /**
13      * Run the database seeds.
14      */
15     0 references | 0 overrides | Codeium: Refactor | Explain | X
16     public function run(): void
17     {
18         //
19         $data = [
20             ['level_id' => 1, 'level_kode' => 'ADM', 'level_nama' => 'Administrator'],
21             ['level_id' => 2, 'level_kode' => 'MNG', 'level_nama' => 'Manager'],
22             ['level_id' => 3, 'level_kode' => 'STF', 'level_nama' => 'Staff/Kasir'],
23         ];
24         DB::table('m_level')->insert($data);
25     }
26 }
```

3. menjalankan file seeder

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan db:seed --class=LevelSeeder
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0
INFO Seeding database.
C:\laragon\www\P1\Minggu 3\PWL_POS>
```

4. data pada m_level sudah ada

Server: localhost:3306 » Database: pwl_pos » Table: m_level

Showing rows 0 - 2 (3 total, Query took 0.0007 seconds.)

SELECT * FROM `m_level`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

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

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view



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5. membuat UserSeeder

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan make:seeder UserSeeder  
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0  
INFO Seeder [C:\laragon\www\P1\Minggu 3\PWL_POS\database\seeders\UserSeeder.php] created successfully.  
C:\laragon\www\P1\Minggu 3\PWL_POS>
```

6. memodif file UserSeeder

```
P1 > Minggu 3 > PWL_POS > database > seeders > UserSeeder.php > ...  
1 <?php  
2  
3 namespace Database\Seeders;  
4  
5 use Illuminate\Database\Console\Seeds\WithoutModelEvents;  
6 use Illuminate\Database\Seeder;  
7 use Illuminate\Support\Facades\Hash;  
8 use Illuminate\Support\Facades\DB;  
9  
10 0 references | 0 implementations | Codeium: Refactor | Explain  
11 class UserSeeder extends Seeder  
12 {  
13     /**  
14      * Run the database seeds.  
15      */  
16     0 references | 0 overrides | Codeium: Refactor | Explain | X  
17     public function run(): void  
18     {  
19         //  
20         $data = [  
21             [  
22                 'user_id' => 1,  
23                 'level_id' => 1,  
24                 'username' => 'admin',  
25                 'nama' => 'Administrator',  
26                 'password' => Hash::make('12345'), //class untuk mengenkripsi/ hash password  
27             ],  
28             [  
29                 'user_id' => 2,  
30                 'level_id' => 2,  
31                 'username' => 'manager',  
32                 'nama' => 'Manager',  
33                 'password' => Hash::make('12345'),  
34             ],  
35             [  
36                 'user_id' => 3,  
37                 'level_id' => 3,  
38                 'username' => 'staff',  
39                 'nama' => 'Staff/Kasir',  
40                 'password' => Hash::make('12345'),  
41             ],  
42         ];  
43         DB::table('m_user')->insert($data);  
44     }  
45 }
```

7. menjalankan UserSeeder



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MATERI : Migration.

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan db:seed --class=UserSeeder  
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0  
  
INFO Seeding database.  
  
C:\laragon\www\P1\Minggu 3\PWL_POS>
```

8. data pada user sudah diisi

The screenshot shows the phpMyAdmin interface for the 'pwl_pos' database, specifically the 'm_user' table. The table contains 3 rows of data, as indicated by the status bar 'Showing rows 0 - 2 (3 total, Query took 0.0021 seconds.)'. The SQL query 'SELECT * FROM `m_user`' is displayed. The table structure is as follows:

user_id	level_id	username	nama	password	created_at	updated_at
1	1	admin	Administrator	\$2y\$12\$PzmWF3zaN6hETgSrFPJoTe3FByYpaIFep9ZFevS2ADk...	NULL	NULL
2	2	manager	Manager	\$2y\$12\$/TGf3ejseCV16FScKqrAekyH6EQdwLICKgkHazUHYd...	NULL	NULL
3	3	staff	Staff/Kasir	\$2y\$12\$IM/cXgGSyAiEYgnukQgDweMQK2EMHDqjb08xplUoZx...	NULL	NULL

Sekarang coba kalian masukkan data *seeder* untuk table yang lain, dengan ketentuan seperti berikut

No	Nama Tabel	Jumlah Data	Keterangan
1	m_kategori	5	5 kategori barang
2	m_barang	10	10 barang yang berbeda
3	t_stok	10	Stok untuk 10 barang
4	t_penjualan	10	10 transaksi penjualan
5	t_penjualan_detail	30	3 barang untuk setiap transaksi penjualan



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m_kategori

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan make:seeder KategoriSeeder

Warning: Module "pdo_mysql" is already loaded in Unknown on line 0

INFO Seeder [C:\laragon\www\P1\Minggu 3\PWL_POS\database\seeders\KategoriSeeder.php] created successfully.

C:\laragon\www\P1\Minggu 3\PWL_POS>|
```

```
P1 > Minggu 3 > PWL_POS > database > seeders > KategoriSeeder.php > PHP Intelephense > KategoriSeeder > run

1  <?php
2
3  namespace Database\Seeders;
4
5  use Illuminate\Database\Seeder; //untuk memanggil Seeder
6  use Illuminate\Support\Facades\DB; //untuk memanggil DB
7
8  0 references | 0 implementations | Codeium: Refactor | Explain
9  class KategoriSeeder extends Seeder
10 {
11     /**
12      * Run the database seeds.
13      */
14     0 references | 0 overrides | Codeium: Refactor | Explain | X
15     public function run(): void
16     {
17         $data = [
18             [
19                 'kategori_kode' => 'ELC001',
20                 'kategori_nama' => 'Elektronik',
21             ],
22             [
23                 'kategori_kode' => 'FNB002',
24                 'kategori_nama' => 'Makanan & Minuman',
25             ],
26             [
27                 'kategori_kode' => 'FRN003',
28                 'kategori_nama' => 'Furniture',
29             ],
30             [
31                 'kategori_kode' => 'CLT004',
32                 'kategori_nama' => 'Pakaian',
33             ],
34             [
35                 'kategori_kode' => 'SPR005',
36                 'kategori_nama' => 'Olahraga',
37             ],
38         ];
39
40         DB::table('m_kategori')->insert($data); //insert data
41     }
42 }
```



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Server: localhost:3306 > Database: pwl_pos > Table: m_kategori

Showing rows 0 - 4 (5 total, Query took 0.0016 seconds)

SELECT * FROM `m_kategori`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

		kategori_id	kategori_kode	kategori_nama	created_at	updated_at
<input type="checkbox"/>	Edit Copy Delete	1	ELC001	Elektronik	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	2	FNB002	Makanan & Minuman	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	3	FRN003	Furniture	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	4	CLT004	Pakaian	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	5	SPR005	Olahraga	NULL	NULL

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

m_barang

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan make:seeder BarangSeeder
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0
INFO Seeder [C:\laragon\www\P1\Minggu 3\PWL_POS\database\seeders\BarangSeeder.php] created successfully.
```

```
P1 > Minggu 3 > PWL_POS > database > seeders > BarangSeeder.php > PHP Intelephense > BarangSeeder > run
1 <?php
2
3 namespace Database\Seeders;
4
5 use Illuminate\Database\Seeder;
6 use Illuminate\Support\Facades\DB;
7
8 class BarangSeeder extends Seeder
9 {
10     /**
11      * Run the database seeds.
12      */
13     public function run(): void
14     {
15         $data = [
16             [
17                 'kategori_id' => 1, // Elektronik
18                 'barang_kode' => 'TV001',
19                 'barang_nama' => 'Televisi LED 32 inch',
20                 'harga_beli' => 2500000,
21                 'harga_jual' => 3000000,
22             ],
23             [
24                 'kategori_id' => 1, // Elektronik
25                 'barang_kode' => 'HP002',
26                 'barang_nama' => 'Smartphone Android',
27                 'harga_beli' => 3500000,
28                 'harga_jual' => 4000000,
29             ],
30             [
31                 'kategori_id' => 2, // Makanan & Minuman
32                 'barang_kode' => 'SNK003',
33                 'barang_nama' => 'Snack Coklat',
34                 'harga_beli' => 10000,
35                 'harga_jual' => 15000,
36             ],
37             [
38                 'kategori_id' => 2, // Makanan & Minuman
39                 'barang_kode' => 'DRK004',
40                 'barang_nama' => 'Minuman Soda',
41                 'harga_beli' => 5000,
42                 'harga_jual' => 8000,
43             ],
44         ];
```



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```
48         'harga_beli' => 1200000,  
49         'harga_jual' => 1500000,  
50     ],  
51     [  
52         'kategori_id' => 3, // Furniture  
53         'barang_kode' => 'CH006',  
54         'barang_nama' => 'Kursi Sofa',  
55         'harga_beli' => 800000,  
56         'harga_jual' => 1000000,  
57     ],  
58     [  
59         'kategori_id' => 4, // Pakaian  
60         'barang_kode' => 'SHR007',  
61         'barang_nama' => 'Kemeja Formal Pria',  
62         'harga_beli' => 150000,  
63         'harga_jual' => 200000,  
64     ],  
65     [  
66         'kategori_id' => 4, // Pakaian  
67         'barang_kode' => 'JNS008',  
68         'barang_nama' => 'Celana Jeans',  
69         'harga_beli' => 200000,  
70         'harga_jual' => 250000,  
71     ],  
72     [  
73         'kategori_id' => 5, // Olahraga  
74         'barang_kode' => 'RKT009',  
75         'barang_nama' => 'Raket Badminton',  
76         'harga_beli' => 500000,  
77         'harga_jual' => 600000,  
78     ],  
79     [  
80         'kategori_id' => 5, // Olahraga  
81         'barang_kode' => 'BLS010',  
82         'barang_nama' => 'Bola Sepak',  
83         'harga_beli' => 150000,  
84         'harga_jual' => 180000,  
85     ],  
86 ];  
87  
88 DB::table('m_barang')->insert($data);  
89 }  
90 }
```

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan db:seed --class=BarangSeeder
```

Warning: Module "pdo_mysql" is already loaded in Unknown on line 0

INFO Seeding database.

```
C:\laragon\www\P1\Minggu 3\PWL_POS>
```

Server: localhost:3306 » Database: pwl_pos » Table: m_barang

Showing rows 0 - 9 (10 total, Query took 0.0026 seconds)

SELECT * FROM `m_barang`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	barang_id	kategori_id	barang_kode	barang_nama	harga_beli	harga_jual	created_at	updated_at
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	1	TV001	Televisi LED 32 inch	2500000	3000000	NULL	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	1	HP002	Smartphone Android	3500000	4000000	NULL	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	2	SNK003	Snack Coklat	10000	15000	NULL	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	2	DRK004	Minuman Soda	5000	8000	NULL	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	3	TBL005	Meja Kayu Jati	1200000	1500000	NULL	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	3	CH006	Kursi Sofa	800000	1000000	NULL	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	4	SHR007	Kemeja Formal Pria	150000	200000	NULL	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	4	JNS008	Celana Jeans	200000	250000	NULL	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	5	RKT009	Raket Badminton	500000	600000	NULL	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10	5	BLS010	Bola Sepak	150000	180000	NULL	NULL

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view



NAMA : Dika Arie Arrifky
NIM : 2341720232
KELAS : TI-2A
MATERI : Migration.

t_stok

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan make:seeder StokSeeder

Warning: Module "pdo_mysql" is already loaded in Unknown on line 0

INFO Seeder [C:\laragon\www\P1\Minggu 3\PWL_POS\database\seeders\StokSeeder.php] created successfully.

C:\laragon\www\P1\Minggu 3\PWL_POS>
```

```
P1 > Minggu 3 > PWL_POS > database > seeders > StokSeeder.php > ...
1  <?php
2
3  namespace Database\Seeders;
4
5  use Illuminate\Database\Seeder;
6  use Illuminate\Support\Facades\DB;
7  use Carbon\Carbon;
8
9  0 references | 0 implementations | Codeium: Refactor | Explain
10 class StokSeeder extends Seeder
11 {
12     /**
13      * Run the database seeds.
14      */
15     0 references | 0 overrides | Codeium: Refactor | Explain | X
16     public function run(): void
17     {
18         $data = [
19             [
20                 'barang_id' => 1, // Televisi LED
21                 'user_id' => 1, // Admin
22                 'stok_tanggal' => Carbon::now(),
23                 'stok_jumlah' => 10,
24             ],
25             [
26                 'barang_id' => 2, // Smartphone Android
27                 'user_id' => 2, // Manager
28                 'stok_tanggal' => Carbon::now()->subDays(1),
29                 'stok_jumlah' => 15,
30             ],
31             [
32                 'barang_id' => 3, // Snack Coklat
33                 'user_id' => 3, // Staff
34                 'stok_tanggal' => Carbon::now()->subDays(2),
35                 'stok_jumlah' => 50,
36             ],
37             [
38                 'barang_id' => 4, // Minuman Soda
39                 'user_id' => 1,
40                 'stok_tanggal' => Carbon::now()->subDays(3),
41                 'stok_jumlah' => 40,
42             ],
43             [
44                 'barang_id' => 5, // Meja Kayu Jati
45                 'user_id' => 2,
46                 'stok_tanggal' => Carbon::now()->subDays(4),
47             ],
48         ];
49
50         DB::table('stok')->insert($data);
51     }
52 }
```



NAMA : Dika Arie Arrifky
NIM : 2341720232
KELAS : TI-2A
MATERI : Migration.

```
P1 > Minggu 3 > PWL_POS > database > seeders > StokSeeder.php > ...
 9  class StokSeeder extends Seeder
14      public function run(): void
37          'user_id' => 1,
38          'stok_tanggal' => Carbon::now()->subDays(3),
39          'stok_jumlah' => 40,
40      ],
41      [
42          'barang_id' => 5, // Meja Kayu Jati
43          'user_id' => 2,
44          'stok_tanggal' => Carbon::now()->subDays(4),
45          'stok_jumlah' => 5,
46      ],
47      [
48          'barang_id' => 6, // Kursi Sofa
49          'user_id' => 3,
50          'stok_tanggal' => Carbon::now()->subDays(5),
51          'stok_jumlah' => 8,
52      ],
53      [
54          'barang_id' => 7, // Kemeja Formal Pria
55          'user_id' => 1,
56          'stok_tanggal' => Carbon::now()->subDays(6),
57          'stok_jumlah' => 20,
58      ],
59      [
60          'barang_id' => 8, // Celana Jeans
61          'user_id' => 2,
62          'stok_tanggal' => Carbon::now()->subDays(7),
63          'stok_jumlah' => 25,
64      ],
65      [
66          'barang_id' => 9, // Raket Badminton
67          'user_id' => 3,
68          'stok_tanggal' => Carbon::now()->subDays(8),
69          'stok_jumlah' => 12,
70      ],
71      [
72          'barang_id' => 10, // Bola Sepak
73          'user_id' => 1,
74          'stok_tanggal' => Carbon::now()->subDays(9),
75          'stok_jumlah' => 30,
76      ],
77  ];
78
79  DB::table('t_stok')->insert($data);
```

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan db:seed --class=StokSeeder
```

```
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0
```

```
INFO Seeding database.
```

```
C:\laragon\www\P1\Minggu 3\PWL_POS>
```



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NIM : 2341720232
KELAS : TI-2A
MATERI : Migration.

Server: localhost:3306 » Database: pwl_pos » Table: t_stok

Showing rows 0 - 9 (10 total, Query took 0.0004 seconds.)

`SELECT * FROM `t_stok``

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

		stok_id	barang_id	user_id	stok_tanggal	stok_jumlah	created_at	updated_at
<input type="checkbox"/>	Edit Copy Delete	1	1	1	2025-03-01 10:15:23	10	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	2	2	2	2025-02-28 10:15:23	15	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	3	3	3	2025-02-27 10:15:23	50	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	4	4	1	2025-02-26 10:15:23	40	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	5	5	2	2025-02-25 10:15:23	5	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	6	6	3	2025-02-24 10:15:23	8	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	7	7	1	2025-02-23 10:15:23	20	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	8	8	2	2025-02-22 10:15:23	25	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	9	9	3	2025-02-21 10:15:23	12	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	10	10	1	2025-02-20 10:15:23	30	NULL	NULL

☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

t_penjualan

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan make:seeder PenjualanSeeder
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0
INFO Seeder [C:\laragon\www\P1\Minggu 3\PWL_POS\database\seeders\PenjualanSeeder.php] created successfully.
```



NAMA : Dika Arie Arrifky
NIM : 2341720232
KELAS : TI-2A
MATERI : Migration.

```
P1 > Minggu 3 > PWL_POS > database > seeders > PenjualanSeeder.php > PHP > PenjualanSeeder > run()
1  <?php
2
3  namespace Database\Seeders;
4
5  use Illuminate\Database\Seeder;
6  use Illuminate\Support\Facades\DB;
7  use Carbon\Carbon;
8
9  0 references | 0 implementations | Codeium: Refactor | Explain
10 class PenjualanSeeder extends Seeder
11 {
12     /**
13      * Run the database seeds.
14      */
15     0 references | 0 overrides | Codeium: Refactor | Explain | X
16     public function run(): void
17     {
18         $data = [
19             [
20                 'user_id' => 1, // Admin
21                 'pembeli' => 'Budi Santoso',
22                 'penjualan_kode' => 'PJ001',
23                 'penjualan_tanggal' => Carbon::now()->subDays(1),
24             ],
25             [
26                 'user_id' => 2, // Manager
27                 'pembeli' => 'Siti Aminah',
28                 'penjualan_kode' => 'PJ002',
29                 'penjualan_tanggal' => Carbon::now()->subDays(2),
30             ],
31             [
32                 'user_id' => 3, // Staff
33                 'pembeli' => 'Andi Wijaya',
34                 'penjualan_kode' => 'PJ003',
35                 'penjualan_tanggal' => Carbon::now()->subDays(3),
36             ],
37             [
38                 'user_id' => 1,
39                 'pembeli' => 'Dewi Lestari',
40                 'penjualan_kode' => 'PJ004',
41                 'penjualan_tanggal' => Carbon::now()->subDays(4),
42             ],
43             [
44                 'user_id' => 2,
```

```
P1 > Minggu 3 > PWL_POS > database > seeders > PenjualanSeeder.php > PHP > PenjualanSeeder > run()
9  class PenjualanSeeder extends Seeder
10 {
11     public function run(): void
12     {
13         $data = [
14             [
15                 'user_id' => 1,
16                 'pembeli' => 'Dewi Lestari',
17                 'penjualan_kode' => 'PJ004',
18                 'penjualan_tanggal' => Carbon::now()->subDays(4),
19             ],
20             [
21                 'user_id' => 2,
22                 'pembeli' => 'Rizky Pratama',
23                 'penjualan_kode' => 'PJ005',
24                 'penjualan_tanggal' => Carbon::now()->subDays(5),
25             ],
26             [
27                 'user_id' => 3,
28                 'pembeli' => 'Nurul Hidayah',
29                 'penjualan_kode' => 'PJ006',
30                 'penjualan_tanggal' => Carbon::now()->subDays(6),
31             ],
32             [
33                 'user_id' => 1,
34                 'pembeli' => 'Fajar Saputra',
35                 'penjualan_kode' => 'PJ007',
36                 'penjualan_tanggal' => Carbon::now()->subDays(7),
37             ],
38             [
39                 'user_id' => 2,
40                 'pembeli' => 'Lina Kartika',
41                 'penjualan_kode' => 'PJ008',
42                 'penjualan_tanggal' => Carbon::now()->subDays(8),
43             ],
44             [
45                 'user_id' => 3,
46                 'pembeli' => 'Arif Rahman',
47                 'penjualan_kode' => 'PJ009',
48                 'penjualan_tanggal' => Carbon::now()->subDays(9),
49             ],
50             [
51                 'user_id' => 1,
52                 'pembeli' => 'Hana Sari',
53                 'penjualan_kode' => 'PJ010',
54                 'penjualan_tanggal' => Carbon::now()->subDays(10),
55             ],
56         ];
57     }
58 }
59
60 DB::table('penjualan')->insert($data);
```




NAMA : Dika Arie Arrifky
NIM : 2341720232
KELAS : TI-2A
MATERI : Migration.

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan db:seed --class=PenjualanSeeder
```

```
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0
```

```
INFO Seeding database.
```

```
C:\laragon\www\P1\Minggu 3\PWL_POS>
```

Server: localhost:3306 » Database: pwl_pos » Table: t_penjualan

Showing rows 0 - 9 (10 total, Query took 0.0017 seconds)

SELECT * FROM `t_penjualan`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	penjualan_id	user_id	pembeli	penjualan_kode	penjualan_tanggal	created_at	updated_at
<input type="checkbox"/> Edit Copy Delete	1	1	Budi Santoso	PJ001	2025-02-28 10:23:55	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	2	2	Siti Aminah	PJ002	2025-02-27 10:23:55	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	3	3	Andi Wijaya	PJ003	2025-02-26 10:23:55	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	4	1	Dewi Lestari	PJ004	2025-02-25 10:23:55	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	5	2	Rizky Pratama	PJ005	2025-02-24 10:23:55	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	6	3	Nurul Hidayah	PJ006	2025-02-23 10:23:55	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	7	1	Fajar Saputra	PJ007	2025-02-22 10:23:55	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	8	2	Lina Kartika	PJ008	2025-02-21 10:23:55	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	9	3	Arif Rahman	PJ009	2025-02-20 10:23:55	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	10	1	Hana Sari	PJ010	2025-02-19 10:23:55	NULL	NULL

Check all | With selected: Edit Copy Delete Export

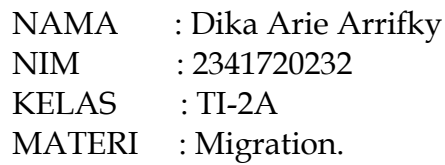
Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

t_penjualan_detail

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan make:seeder PenjualanDetailSeeder
```

```
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0
```

```
INFO Seeder [C:\laragon\www\P1\Minggu 3\PWL_POS\database\seeders\PenjualanDetailSeeder.php] created successfully.
```



```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan db:seed --class=PenjualanDetailSeeder
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0

INFO Seeding database.

C:\laragon\www\P1\Minggu 3\PWL_POS>
```

Server: localhost:3306 » Database: pwt_pos » Table: t_penjualan_detail

Browse	Structure	SQL	Search	Insert	Export	Import	Privileges	Operations	Triggers
detail_id penjualan_id barang_id harga jumlah created_at updated_at									
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	1	1	3000000	4	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	1	4	8000	5	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	1	6	1000000	2	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	4	1	3000000	3	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	4	3	15000	5	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	4	10	180000	1	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	7	1	3000000	2	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	7	2	4000000	3	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	7	5	1500000	3	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10	10	2	4000000	4	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	11	10	3	15000	4	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	12	10	10	180000	3	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	13	2	5	1500000	1	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	14	2	6	1000000	5	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	15	2	8	250000	3	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	16	5	8	250000	4	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	17	5	9	600000	3	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	18	5	10	180000	4	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	19	8	1	3000000	2	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	20	8	3	15000	5	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	21	8	9	600000	3	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	22	3	2	4000000	2	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	23	3	3	15000	2	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	24	3	9	600000	1	2025-03-01 10:28:34	2025-03-01 10:28:34		
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	25	6	1	3000000	3	2025-03-01 10:28:34	2025-03-01 10:28:34		



NAMA : Dika Arie Arrifky
NIM : 2341720232
KELAS : TI-2A
MATERI : Migration.

Praktikum 4 – Implementasi DB Façade

1. membuat LevelController

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan make:Controller LevelController  
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0  
INFO Controller [C:\laragon\www\P1\Minggu 3\PWL_POS\app\Http\Controllers\LevelController.php] created successfully.  
C:\laragon\www\P1\Minggu 3\PWL_POS>
```

2. memodif isi file rout web dulu

```
P1 > Minggu 3 > PWL_POS > routes > web.php > ...  
1 <?php  
2  
3 use App\Http\Controllers\LevelController;  
4 use Illuminate\Support\Facades\Route;  
5  
6 /*  
7 |-----  
8 | Web Routes  
9 |-----  
10 |  
11 | Here is where you can register web routes for your application. These  
12 | routes are loaded by the RouteServiceProvider and all of them will  
13 | be assigned to the "web" middleware group. Make something great!  
14 |  
15 |*/  
16  
17 Route::get('/', function () { Factory|View {  
18     return view(view: 'welcome');  
19 });  
20  
21 Route::get('/level', [LevelController::class, 'index']);  
22
```

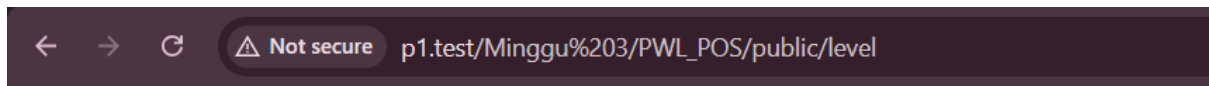
3. modifikasi file LevelController untuk menambahkan 1 data ke table m_level

```
P1 > Minggu 3 > PWL_POS > app > Http > Controllers > LevelController.php > PHP Intelephense > LevelController > index  
1 <?php  
2  
3 namespace App\Http\Controllers;  
4  
5 use Illuminate\Http\Request;  
6 use Illuminate\Support\Facades\DB;  
7  
8 2 references | 0 implementations | Codeium: Refactor | Explain  
9 class LevelController extends Controller  
10 {  
11     //  
12     1 reference | 0 overrides | Codeium: Refactor | Explain | Generate Function Comment | X  
13     public function index(): string  
14     {  
15         DB::insert('insert into m_level(level_kode, level_nama, created_at) values (?, ?)', ['CUS', 'Pelanggan', now()]);  
16         return 'Insert data baru berhasil';  
17     }  
18 }
```

4. running di browsernya

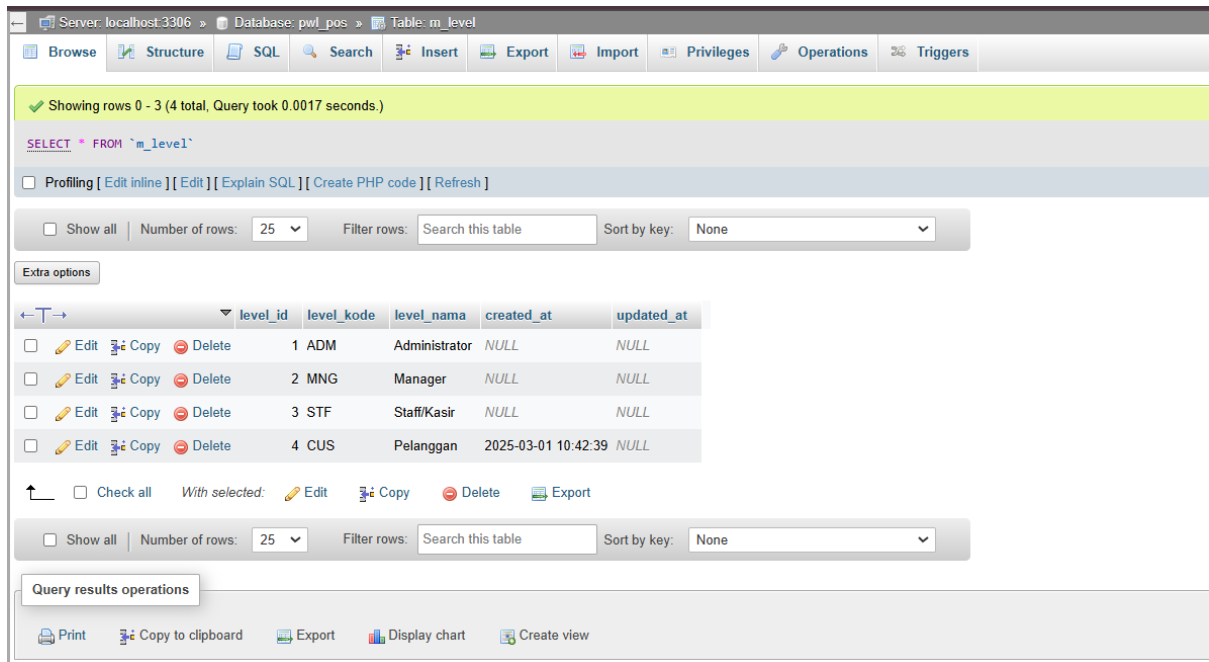


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NIM : 2341720232
KELAS : TI-2A
MATERI : Migration.



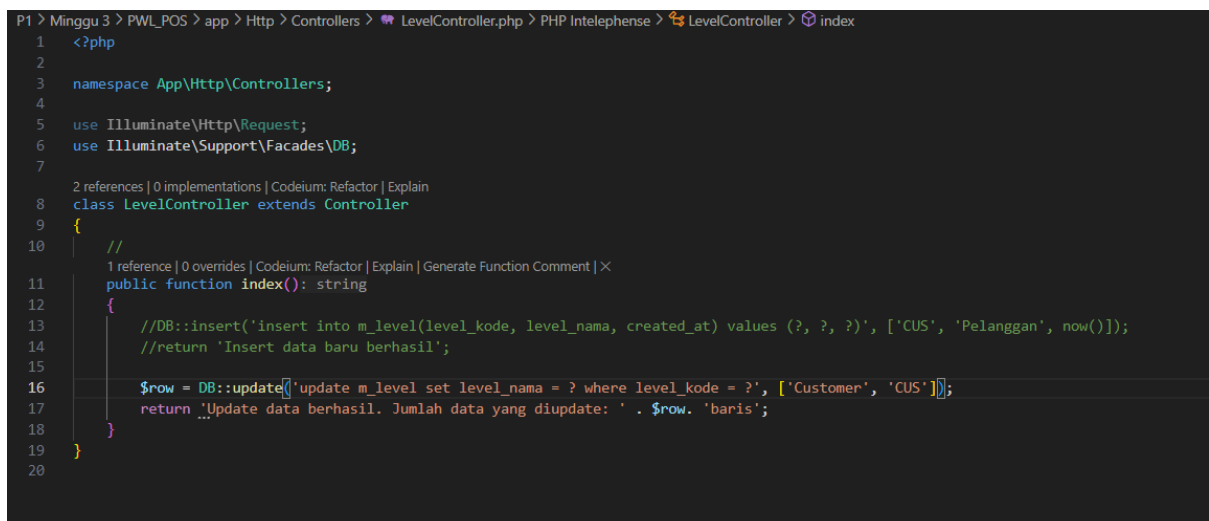
Insert data baru berhasil

5. dan cek pada databasenya



Berhasil menambah data baru Cus dan tanggal waktu

6. modifikasi lagi file LevelController untuk meng-update data di table m_level seperti berikut





NAMA : Dika Arie Arrifky
NIM : 2341720232
KELAS : TI-2A
MATERI : Migration.

7. running lagi di web nya



8. terjadi perubahan tadinya pelanggan sekarang menjadi customer

				level_id	level_kode	level_nama	created_at	updated_at
<input type="checkbox"/>	Edit	Copy	Delete	1	ADM	Administrator	NULL	NULL
<input type="checkbox"/>	Edit	Copy	Delete	2	MNG	Manager	NULL	NULL
<input type="checkbox"/>	Edit	Copy	Delete	3	STF	Staff/Kasir	NULL	NULL
<input type="checkbox"/>	Edit	Copy	Delete	4	CUS	Customer	2025-03-01 10:42:39	NULL

9. Method terakhir yang kita coba adalah untuk menampilkan data yang ada di table m_level. Kita modifikasi file LevelController seperti berikut

```
P1 > Minggu 3 > PWL_POS > app > Http > Controllers > LevelController.php > PHP Intelephense > LevelController > index
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6  use Illuminate\Support\Facades\DB;
7
8  2 references | 0 implementations | Codeium: Refactor | Explain
9  class LevelController extends Controller
10 {
11     //
12     1 reference | 0 overrides | Codeium: Refactor | Explain | Generate Function Comment | X
13     public function index(): Factory|View
14     {
15         //DB::insert('insert into m_level(level_kode, level_nama, created_at) values (?, ?, ?)', ['CUS', 'Pelanggan', now()]);
16         //return 'Insert data baru berhasil';
17
18         //DB::update('update m_level set level_nama = ? where level_kode = ?', ['Customer', 'CUS']);
19         //return 'Update data berhasil. Jumlah data yang diupdate: ' . $row. 'baris';
20
21         $data = DB::select('select * from m_level');
22         return view('level', data: ['data' => $data]);
23     }
24 }
```

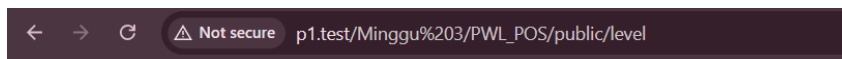
10. membuat level.blade.php



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NIM : 2341720232
KELAS : TI-2A
MATERI : Migration.

```
P1 > Minggu 3 > PWL_POS > resources > views > level.blade.php > html > body > table > tr
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Data Level Pengguna</title>
7 </head>
8 <body>
9 <h1>Data Level Pengguna</h1>
10 <table border="1" cellpadding = '2' cellspacing = '0'>
11 <tr>
12 <th>ID</th>
13 <th>Kode</th>
14 <th>Nama</th>
15 </tr>
16 @foreach ($data as $d)
17 <tr>
18 <td>{{ $d->level_id }}</td>
19 <td>{{ $d->level_kode }}</td>
20 <td>{{ $d->level_nama }}</td>
21 </tr>
22 @endforeach
23 </table>
24 </body>
25 </html>
```

11. running di browser dan tampak ada tabel data



Data Level Pengguna

ID	Kode	Nama
1	ADM	Administrator
2	MNG	Manager
3	STF	Staff/Kasir
4	CUS	Customer



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KELAS : TI-2A
MATERI : Migration.

Praktikum 5 – Implementasi *Query Builder*

1. membuat KategoriKontroller

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan make:Controller KategoriController
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0
[INFO] Controller [C:\laragon\www\P1\Minggu 3\PWL_POS\app\Http\Controllers\KategoriController.php] created successfully.
C:\laragon\www\P1\Minggu 3\PWL_POS>
```

2. memodif isi file route web.php

```
P1 > Minggu 3 > PWL_POS > routes > web.php > ...
1 <?php
2
3 use App\Http\Controllers\KategoriController;
4 use App\Http\Controllers\LevelController;
5 use Illuminate\Support\Facades\Route;
6
7 /*
8 |-----
9 | Web Routes
10 |-----
11 |
12 | Here is where you can register web routes for your application. These
13 | routes are loaded by the RouteServiceProvider and all of them will
14 | be assigned to the "web" middleware group. Make something great!
15 |
16 */
17
18 Route::get('/', function () { return view('welcome'); });
19
20
21
22 Route::get('/level', [LevelController::class, 'index']);
23 Route::get('/kategori', [KategoriController::class, 'index']);
```

3. memodifikasi isi file KategoriKontroller

```
P1 > Minggu 3 > PWL_POS > app > Http > Controllers > KategoriController.php > PHP Intelephense > KategoriController > index
1 <?php
2
3 namespace App\Http\Controllers;
4
5 use Illuminate\Http\Request;
6 use Illuminate\Support\Facades\DB;
7 class KategoriController extends Controller
8 {
9     //
10     public function index(): string
11     {
12         $data = [
13             'kategori_kode' => 'SNK',
14             'kategori_nama' => 'Snack',
15             'created_at' => now(),
16         ];
17         DB::table('m_kategori')->insert($data);
18         return 'Insert data baru berhasil';
19     }
20 }
```

4. jalankan pada web browser



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NIM : 2341720232
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MATERI : Migration.

← → ↻ ⚠ Not secure p1.test/Minggu%203/PWL_POS/public/kategori

Insert data baru berhasil

5. cek pada tabel database dan sudah nambah 1

Server: localhost:3306 » Database: pwl_pos » Table: m_kategori

Showing rows 0 - 5 (6 total, Query took 0.0002 seconds.)

SELECT * FROM `m_kategori`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

		kategori_id	kategori_kode	kategori_nama	created_at	updated_at
<input type="checkbox"/>	Edit Copy Delete	1	ELC001	Elektronik	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	2	FNB002	Makanan & Minuman	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	3	FRN003	Furniture	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	4	CLT004	Pakaian	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	5	SPR005	Olahraga	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	6	SNK	Snack	2025-03-01 12:25:05	NULL

6. modifikasi biar bisa update

```
14 // 'created_at' => now(),
15 // ];
16 // DB::table('m_kategori')->insert($data);
17 // return 'Insert data baru berhasil';
18
19 $row = DB::table('m_kategori')->where('kategori_kode', 'SNK')->update(['kategori_nama' => 'Camilan']);
20 return 'Update data berhasil. Jumlah data yang diupdate: ' . $row . 'baris';
21
22 // $data = DB::select('select * from m_kategori');
23 // return view('kategori', ['data' => $data]);
24
25
```

7. running pada browser

← → ↻ ⚠ Not secure p1.test/Minggu%203/PWL_POS/public/kategori

Update data berhasil. Jumlah data yang diupdate: 1baris

8. tampilan pada database berubah

<input type="checkbox"/>	Edit Copy Delete	6	SNK	Camilan	2025-03-01 12:25:05	NULL
--------------------------	------------------	---	-----	---------	---------------------	------

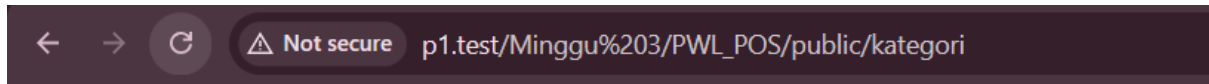


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9. modifikasi agar bisa melakukan proses hapus data

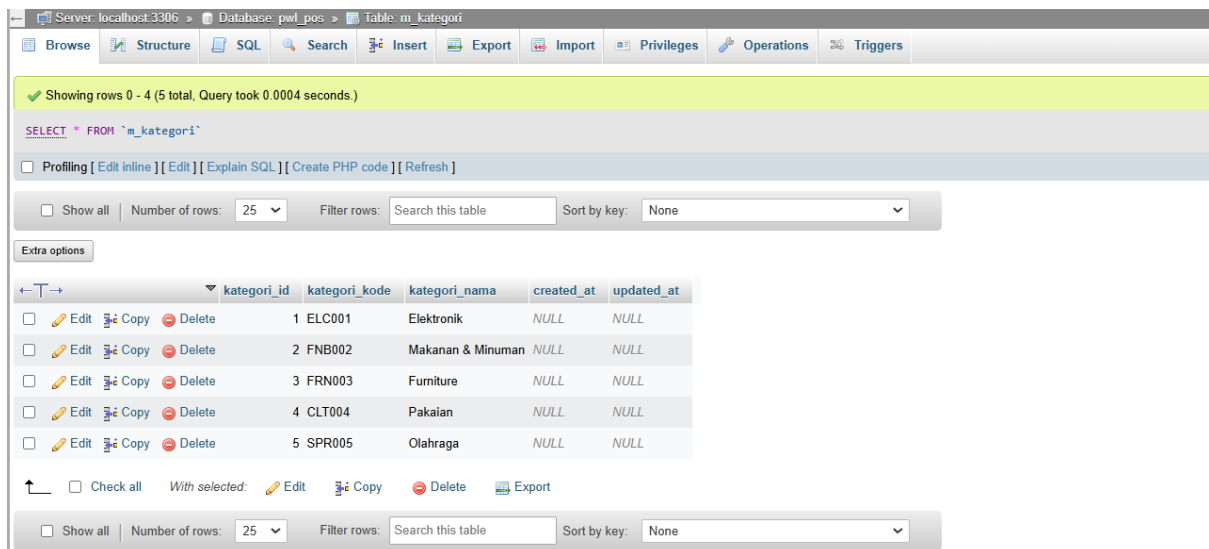
```
21  
22     $row = DB::table('m_kategori')->where('kategori_kode', 'SNK')->delete();  
23     return 'Delete data berhasil. Jumlah data yang dihapus: ' . $row->count();  
24
```

10. jalankan pada browser



Delete data berhasil. Jumlah data yang dihapus: 1 baris

11. cek pada tabel database dan data SNK sudah terhapus



12. modifikasi agar bisa menampilkan data

```
$data = DB::select('select * from m_kategori');  
return view('kategori', data: ['data' => $data]);
```

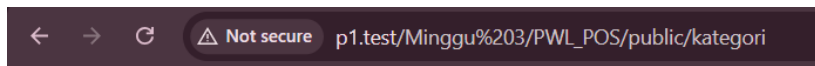
13. buat kontroller.blade.php



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NIM : 2341720232
KELAS : TI-2A
MATERI : Migration.

```
P1 > Minggu 3 > PWL_POS > resources > views > kategori.blade.php > html > body > table > tr > td
1 <!DOCTYPE html>
2 <html lang="id">
3
4 <head>
5     <meta charset="UTF-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1.0">
7     <title>Daftar Kategori Barang</title>
8 </head>
9
10 <body>
11
12     <h1>Daftar Kategori Barang</h1>
13
14     <table border="1" cellpadding="2" cellspacing="0">
15         <tr>
16             <th>ID Kategori</th>
17             <th>Kode Kategori</th>
18             <th>Nama Kategori</th>
19         </tr>
20
21         @foreach($data as $d)
22             <tr>
23                 <td>{{ $d->kategori_id }}</td>
24                 <td>{{ $d->kategori_kode }}</td>
25                 <td>{{ $d->kategori_nama }}</td>
26             </tr>
27         @endforeach
28     </table>
29
30
31 </body>
32
33 </html>
```

14. jalankan pada browser



Daftar Kategori Barang

ID Kategori	Kode Kategori	Nama Kategori
1	ELC001	Elektronik
2	FNB002	Makanan & Minuman
3	FRN003	Furniture
4	CLT004	Pakaian
5	SPR005	Olahraga



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NIM : 2341720232
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MATERI : Migration.

Praktikum 6 – Implementasi Eloquent ORM

1. membuat user model dengan perintah

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan make:model UserModel  
  
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0  
  
INFO Model [C:\laragon\www\P1\Minggu 3\PWL_POS\app\Models\UserModel.php] created successfully.  
  
C:\laragon\www\P1\Minggu 3\PWL_POS>
```

2. modifikasi file UserModel

```
P1 > Minggu 3 > PWL_POS > app > Models > UserModel.php > PHP Intelephense > UserModel  
1 <?php  
2  
3 namespace App\Models;  
4  
5 use Illuminate\Database\Eloquent\Factories\HasFactory;  
6 use Illuminate\Database\Eloquent\Model;  
7  
8 0 references | 0 implementations | Codeium: Refactor | Explain  
9 class UserModel extends Model  
10 |  
11 | use HasFactory;  
12 |  
13 | 0 references  
14 | protected $table = 'm_user'; //mendefinisikan nama tabel yang digunakan oleh model ini  
15 | 0 references  
16 | protected $primaryKey = 'user_id'; //mendefinisikan primary key tabel yang digunakan oleh model ini  
17 |  
18 |  
19 |  
20 |  
21 |  
22 |  
23 |  
24 |  
25 |
```

3. modifikasi route web untuk bisa ke controller UserController

```
P1 > Minggu 3 > PWL_POS > routes > web.php > ...  
1 <?php  
2  
3 use App\Http\Controllers\KategoriController;  
4 use App\Http\Controllers\LevelController;  
5 use Illuminate\Support\Facades\Route;  
6 use App\Http\Controllers\UserController;  
7  
8 /*  
9 | Web Routes  
10 |  
11 |  
12 | Here is where you can register web routes for your application. These  
13 | routes are loaded by the RouteServiceProvider and all of them will  
14 | be assigned to the "web" middleware group. Make something great!  
15 |  
16 |*/  
17  
18 Route::get('/', function () { Factory|View {  
19 | return view(view: 'welcome');  
20 | });  
21  
22 Route::get('/level', [LevelController::class, 'index']);  
23 Route::get('/kategori', [KategoriController::class, 'index']);  
24 Route::get('/user', [UserController::class, 'index']);
```

4. buat dan modifikasi UserController



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NIM : 2341720232
KELAS : TI-2A
MATERI : Migration.

```
C:\laragon\www\P1\Minggu 3\PWL_POS>php artisan make:Controller UserController
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0
INFO Controller [C:\laragon\www\P1\Minggu 3\PWL_POS\app\Http\Controllers\UserController.php] created successfully.
C:\laragon\www\P1\Minggu 3\PWL_POS>
```

```
P1 > Minggu 3 > PWL_POS > app > Http > Controllers > UserController.php > PHP Intelephense > UserController > index
1 <?php
2
3 namespace App\Http\Controllers;
4
5 use Illuminate\Http\Request;
6 use App\Models\UserModel;
7
8 4 references | 0 implementations | Codeium: Refactor | Explain
9 class UserController extends Controller
10 {
11     //
12     1 reference | 0 overrides | Codeium: Refactor | Explain | Generate Function Comment | X
13     public function index(): Factory\View
14     {
15         //mencoba akses model UserModel
16         $users = userModel::all();
17         return view('user.index', data: compact('users'));
18     }
19 }
```

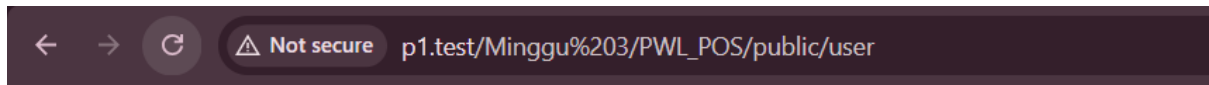
5. membuat view user.blade.php

```
web.php M LevelController.php level.blade.php KategoriController.php kategori.blade.php UserModel.php U
P1 > Minggu 3 > PWL_POS > resources > views > user.blade.php > html > body > table > tr > th
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5     <meta charset="UTF-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1.0">
7     <title>Data User</title>
8 </head>
9
10 <body>
11     <h1>Data User</h1>
12     <table border="1" cellpadding="1" cellspacing="0">
13         <tr>
14             <th>ID</th>
15             <th>Username</th>
16             <th>Nama</th>
17             <th>ID Level Pengguna</th>
18         </tr>
19         @foreach ($data as $d)
20             <tr>
21                 <th>{{ $d->user_id }}</th>
22                 <th>{{ $d->user_username }}</th>
23                 <th>{{ $d->user_nama }}</th>
24                 <th>{{ $d->user_level_id }}</th>
25             </tr>
26         @endforeach
27     </table>
28 </body>
29
30 </html>
```



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NIM : 2341720232
KELAS : TI-2A
MATERI : Migration.

6. jalankan pada browser



Data User

ID	Username	Nama	ID Level Pengguna
1	admin	Administrator	1
2	manager	Manager	2
3	staff	Staff/Kasir	3

Ada 3 data pada tabel

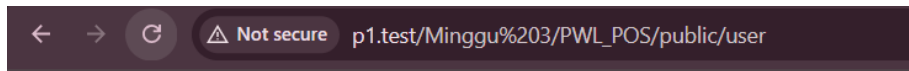
7. kita modifikasi lagi file UserController

```
P1 > Minggu 3 > PWL_POS > app > Http > Controllers > UserController.php > ...
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6  use App\Models\UserModel;
7  use Illuminate\Support\Facades\DB;
8  use Illuminate\Support\Facades\Hash;
9
10 4 references | 0 implementations | Codeium: Refactor | Explain
11 class UserController extends Controller
12 {
13     //
14     1 reference | 0 overrides | Codeium: Refactor | Explain | Generate Function Comment | X
15     public function index(): Factory|View
16     {
17         $data = [
18             'username' => 'customer-1',
19             'nama' => 'Pelanggan',
20             'Password' => Hash::make('12345'),
21             'level_id' => 4
22         ];
23         UserModel::insert($data); // tambahkan ke tabel m_user
24
25         //mencoba akses model UserModel
26         $users = UserModel::all(); // ambil semua data dari tabel m_user
27         return view('user', data: ['data' => $users]);
28     }
29 }
```



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NIM : 2341720232
KELAS : TI-2A
MATERI : Migration.

8. jalankan pada browser dan data bertambah 1



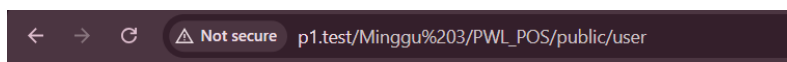
Data User

ID	Username	Nama	ID Level Pengguna
1	admin	Administrator	1
2	manager	Manager	2
3	staff	Staff/Kasir	3
8	customer-1	Pelanggan	4

9. modifikasi lagi file UserController menjadi seperti di bawah agar bisa update

```
26
27     $data = [
28         'nama' => 'Pelanggan Pertama',
29     ];
30     UserModel::where('username', 'customer-1')->update($data); //update data user
31
32     //coba akses model UserModel
33     $users = UserModel::all(); //ambil semua data dari tabel m_user
34     return view('user', data: ['data' => $users]);
35 }
36
37
```

10. jalankan di browser dan data nama Pelanggan berganti menjadi Pelanggan Pertama



Data User

ID	Username	Nama	ID Level Pengguna
1	admin	Administrator	1
2	manager	Manager	2
3	staff	Staff/Kasir	3
8	customer-1	Pelanggan Pertama	4



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NIM : 2341720232
KELAS : TI-2A
MATERI : Migration.

G. Penutup

Jawablah pertanyaan berikut sesuai pemahaman materi di atas

1. Pada Praktikum 1 - Tahap 5, apakah fungsi dari APP_KEY pada file setting .env Laravel?

Jawab : digunakan untuk enkripsi data sensitif di Laravel, seperti session dan password reset token

2. Pada Praktikum 1, bagaimana kita men-generate nilai untuk APP_KEY?

Jawab : untuk menghasilkan APP_KEY, gunakan perintah php artisan key:generate

3. Pada Praktikum 2.1 - Tahap 1, secara default Laravel memiliki berapa file migrasi? dan untuk apa saja file migrasi tersebut?

Jawab : laravel secara default memiliki 4 file migrasi yaitu create_users_table, create_password_reset_tokens_table, create_failed_jobs_table, dan create_personal_access_tokens_table yang digunakan untuk mengelola pengguna, reset password, pencatatan kegagalan pekerjaan, dan token akses personal

4. Secara default, file migrasi terdapat kode \$table->timestamps();, apa tujuan/output dari fungsi tersebut?

Jawab : \$table->timestamps(); secara otomatis menambahkan kolom created_at dan updated_at untuk mencatat waktu pembuatan dan pembaruan data

5. Pada File Migrasi, terdapat fungsi \$table->id(); Tipe data apa yang dihasilkan dari fungsi tersebut?

Jawab : \$table->id(); menghasilkan kolom id dengan tipe data bigInteger (unsigned) auto-increment

6. Apa bedanya hasil migrasi pada table m_level, antara menggunakan \$table->id(); dengan menggunakan \$table->id('level_id'); ?

Jawab : \$table->id() otomatis membuat primary key id sedangkan \$table->id('level_id'); membuat primary key dengan nama level_id tanpa perlu didefinisikan secara manual

7. Pada migration, Fungsi ->unique() digunakan untuk apa?

Jawab : ->unique() digunakan untuk memastikan nilai dalam kolom tersebut tidak ada yang duplikat



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MATERI : Migration.

8. Pada Praktikum 2.2 - Tahap 2, kenapa kolom level_id pada tabel m_user menggunakan \$table->unsignedBigInteger('level_id'), sedangkan kolom level_id pada tabel m_level menggunakan \$table->id('level_id') ?

Jawab : \$table->unsignedBigInteger('level_id') digunakan di m_user karena sebagai foreign key sedangkan di m_level \$table->id('level_id') digunakan sebagai primary key

9. Pada Praktikum 3 - Tahap 6, apa tujuan dari Class Hash? dan apa maksud dari kode program Hash::make('1234');?

Jawab : Class Hash digunakan untuk mengenkripsi password, dan Hash::make('1234'); mengubah string "1234" menjadi hash yang aman

10. Pada Praktikum 4 - Tahap 3/5/7, pada query builder terdapat tanda tanya (?), apa kegunaan dari tanda tanya (?) tersebut?

Jawab : tanda tanya(?) pada query builder digunakan sebagai binding parameter untuk mencegah SQL Injection dengan menggantinya secara aman saat query dijalankan

11. Pada Praktikum 6 - Tahap 3, apa tujuan penulisan kode protected \$table = 'm_user'; dan protected \$primaryKey = 'user_id'; ?

Jawab : protected \$table = 'm_user'; menentukan tabel yang digunakan oleh model, dan protected \$primaryKey = 'user_id'; menentukan primary key dari tabel tersebut

12. Menurut kalian, lebih mudah menggunakan mana dalam melakukan operasi CRUD ke database (DB Façade / Query Builder / Eloquent ORM) ? jelaskan

Jawab : menurut saya yaitu Eloquent ORM lebih mudah digunakan karena berbasis OOP, lebih ringkas dan otomatis menangani hubungan antar tabel dibandingkan DB Façade dan Query Builder yang lebih manual tetapi lebih fleksibel untuk query kompleks