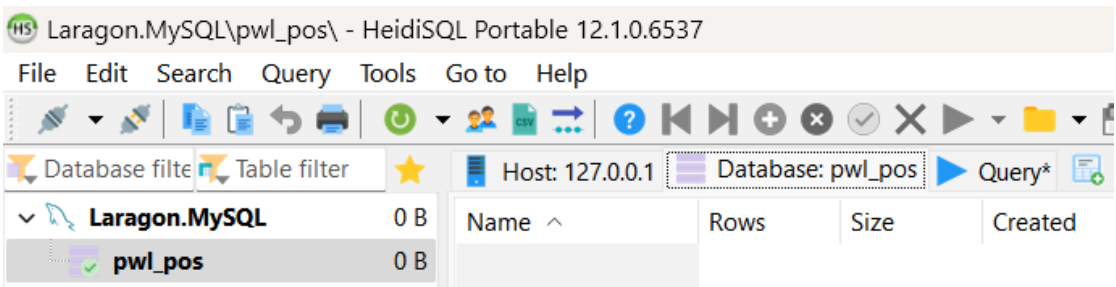
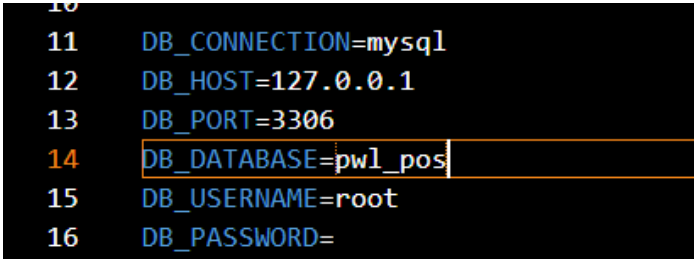
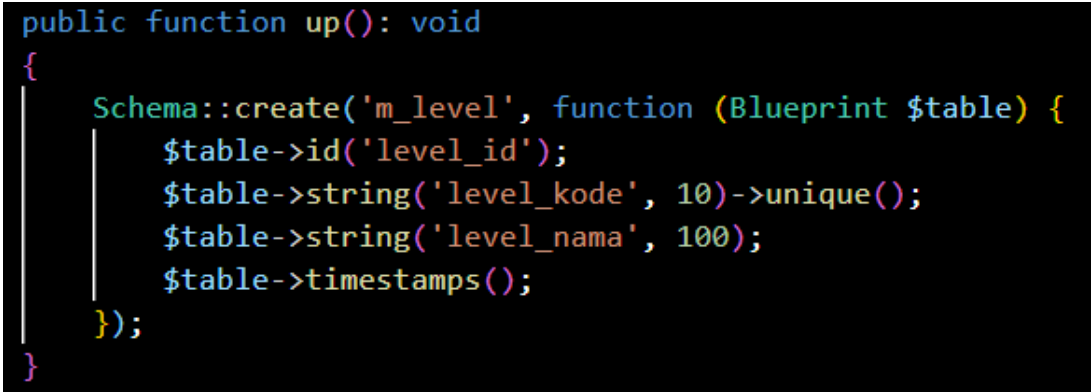




Mata Kuliah : Pemrograman Web Lanjut (PWL)
Program Studi : D4 – Teknik Informatika
Semester : 4

Kelas : TI
NIM : 2341720234
Nama : Anya Callissta Chriswantari
Jobsheet Ke- : 3

Laporan Jobsheet

Langkah	Jawaban/Deskripsi
Praktikum 1 – Pengaturan Database	
1.	
5.	
Praktikum 2.1 - Pembuatan file migrasi tanpa relasi	
4.	



5.

C:\laragon\www\WebLanjut\POS(main -> origin)

λ php artisan migrate

INFO Preparing database.

Creating migration table 356ms DONE

INFO Running migrations.

2014_10_12_000000_create_users_table 107ms DONE

2014_10_12_100000_create_password_reset_tokens_table 16ms DONE

2019_08_19_000000_create_failed_jobs_table 71ms DONE

2019_12_14_000001_create_personal_access_tokens_table 61ms DONE

2025_02_22_064751_create_m_level_table 36ms DONE

6.

Host: 127.0.0.1 Database: pwl_pos Query*

Name ^	Rows	Size	Created	Updated
failed_jobs	0	16,0 KiB	2025-02-22 13:58:...	
migrations	0	16,0 KiB	2025-02-22 13:58:...	
m_level	0	16,0 KiB	2025-02-22 13:58:...	
password_rese...	0	16,0 KiB	2025-02-22 13:58:...	
personal_acces...	0	16,0 KiB	2025-02-22 13:58:...	
users	0	16,0 KiB	2025-02-22 13:58:...	

8.

C:\laragon\www\WebLanjut\POS(main -> origin)

λ php artisan make:migration create_m_kategori_level --create=m_kategori

INFO Migration [C:\laragon\www\WebLanjut\POS\database\migrations\2025_02_22_072624_create_m_kategori_level.php] created successfully.

migrations

2014_10_12_000000_create_users_table.php

2014_10_12_100000_create_password_reset_tokens_ta...

2019_08_19_000000_create_failed_jobs_table.php

2019_12_14_000001_create_personal_access_tokens_t...

2025_02_22_064751_create_m_level_table.php

2025_02_22_072624_create_m_kategori_level.php

m_kategori

m_level

password_r...

personal_ac...

users

Columns:

Add Remove Up Down

#	Name	Datatype	Length/Set
1	id	BIGINT	20
2	kategori_kode	VARCHAR	10
3	kategori_nama	VARCHAR	100
4	created_at	TIMESTAMP	
5	updated_at	TIMESTAMP	

9.

2025_02_22_072624_create_m_ka...

add column "kategori_kode" and "kateg...

5 minutes ago



Praktikum 2.2 - Pembuatan File Migrasi Dengan Relasi

1.

```
C:\laragon\www\WebLanjut\POS(main -> origin)
λ php artisan make:migration create_m_user_table --table=m_user

INFO Migration [C:\laragon\www\WebLanjut\POS\database\migrations\2025_02_22_074437_create_m_user_table.php] created successfully.
```

3.

```
C:\laragon\www\WebLanjut\POS(main -> origin)
λ php artisan migrate

INFO Running migrations.

2025_02_22_074437_create_m_user_table ..... 106ms DONE
```

m_user	32,0 KiB
password_r...	16,0 KiB
personal_ac...	16,0 KiB
users	16,0 KiB

Columns: + Add × Remove ▲ Up ▼ Down			
#	Name	Datatype	Length/Set
1	user_id	BIGINT	20
2	level_id	BIGINT	20
3	username	VARCHAR	20
4	nama	VARCHAR	100
5	password	VARCHAR	255
6	created_at	TIMESTAMP	
7	updated_at	TIMESTAMP	

4.

```
C:\laragon\www\WebLanjut\POS(main -> origin)
λ php artisan make:migration create_m_barang_table --create=m_barang

INFO Migration [C:\laragon\www\WebLanjut\POS\database\migrations\2025_02_22_081006_create_m_barang_table.php] created successfully.

C:\laragon\www\WebLanjut\POS(main -> origin)
λ php artisan make:migration create_t_stok_table --create=t_stok

INFO Migration [C:\laragon\www\WebLanjut\POS\database\migrations\2025_02_22_081118_create_t_stok_table.php] created successfully.

C:\laragon\www\WebLanjut\POS(main -> origin)
λ php artisan make:migration create_t_penjualan_table --create=t_penjualan

INFO Migration [C:\laragon\www\WebLanjut\POS\database\migrations\2025_02_22_081159_create_t_penjualan_table.php] created successfully.

C:\laragon\www\WebLanjut\POS(main -> origin)
λ php artisan make:migration create_t_penjualan_detail_table --create=t_penjualan_detail

INFO Migration [C:\laragon\www\WebLanjut\POS\database\migrations\2025_02_22_081208_create_t_penjualan_detail_table.php] created successfully.
```



	m_barang	32,0 KiB
	m_kategori	16,0 KiB
	m_level	16,0 KiB
	m_user	32,0 KiB
	password_r...	16,0 KiB
	personal_ac...	16,0 KiB
	t_penjualan	32,0 KiB
	t_penjualan...	48,0 KiB
	t_stok	48,0 KiB
	users	16,0 KiB

Columns: + Add ✕ Remove ▲ Up ▼ Down				
#	Name	Datatype	Length/Set	
	1 barang_id	BIGINT	20	
	2 kategori_id	BIGINT	20	
	3 barang_kode	VARCHAR	10	
	4 barang_nama	VARCHAR	100	
	5 harga_beli	INT	10	
	6 harga_jual	INT	10	
	7 created_at	TIMESTAMP		
	8 updated_at	TIMESTAMP		

	password_r...	16,0 KiB
	personal_ac...	16,0 KiB
	t_penjualan	32,0 KiB
	t_penjualan...	48,0 KiB
	t_stok	48,0 KiB
	users	16,0 KiB

Columns: + Add ✕ Remove ▲ Up ▼ Down			
#	Name	Datatype	
	1 penjualan_id	BIGINT	
	2 user_id	BIGINT	
	3 pembeli	VARCHAR	
	4 penjualan_kode	VARCHAR	
	5 penjualan_tan...	DATETIME	
	6 created_at	TIMESTAMP	
	7 updated_at	TIMESTAMP	

	password_r...	16,0 KiB
	personal_ac...	16,0 KiB
	t_penjualan	32,0 KiB
	t_penjualan...	48,0 KiB
	t_stok	48,0 KiB
	users	16,0 KiB

Columns: + Add ✕ Remove ▲ Up ▼ Down			
#	Name	Datatype	
	1 stok_id	BIGINT	
	2 barang_id	BIGINT	
	3 user_id	BIGINT	
	4 stok_tanggal	DATETIME	
	5 stok_jumlah	INT	
	6 created_at	TIMESTAMP	
	7 updated_at	TIMESTAMP	



	<div><div><div><div><div><div></div><div>password_r...</div><div>16,0 KiB</div></div><div><div></div><div>personal_ac...</div><div>16,0 KiB</div></div><div><div></div><div>t_penjualan</div><div>32,0 KiB</div></div><div><div></div><div>t_penjuala...</div><div>48,0 KiB</div></div><div><div></div><div>t_stok</div><div>48,0 KiB</div></div><div><div></div><div>users</div><div>16,0 KiB</div></div></div></div></div></div>	<div><div><div>#</div><div>Name</div><div>Datatype</div></div><div><div><div></div><div>1</div><div>detail_id</div><div>BIGINT</div></div><div><div><div></div><div>2</div><div>penjualan_id</div><div>BIGINT</div></div><div><div><div></div><div>3</div><div>barang_id</div><div>BIGINT</div></div><div><div><div></div><div>4</div><div>harga</div><div>INT</div></div><div><div><div></div><div>5</div><div>jumlah</div><div>INT</div></div><div><div><div></div><div>6</div><div>created_at</div><div>TIMESTAMP</div></div><div><div><div></div><div>7</div><div>updated_at</div><div>TIMESTAMP</div></div></div></div></div></div></div></div></div></div>
6.	<div><div><div><div><div><div><div></div><div>anyacallissta</div><div>committed 7 minutes ago</div></div></div><div><div>create migration</div><div><div><div></div><div>main</div></div></div></div></div></div></div></div>	
<div><div>Praktikum 3- Membuat File Seeder</div></div>		
1.	<div><div><div><div><div><div>C:\laragon\www\WebLanjut\POS(main -> origin)</div><div>λ php artisan make:seeder LevelSeeder</div><div>INFO Seeder [C:\laragon\www\WebLanjut\POS\database\seeders\LevelSeeder.php] created successfully.</div></div></div><div><div><div>seeders</div><div><div><div></div><div>DatabaseSeeder.php</div></div><div><div></div><div>LevelSeeder.php</div><div>U</div></div></div></div></div></div></div></div>	



3.

```
C:\laragon\www\WebLanjut\POS(main -> origin)
λ php artisan db:seed --class=LevelSeeder
```

INFO Seeding database.

4.

Laragon.MySQL304,0 KiB

✓pwl_pos304,0 KiB

failed_jobs16,0 KiB

migrations16,0 KiB

m_barang32,0 KiB

m_kategori16,0 KiB

m_level16,0 KiB

pwl_pos.m_level: 3 rows total (approximately)

level_id	level_kode	level_nama	created_at	updated_at
1	ADM	Administrator	(NULL)	(NULL)
2	MNG	Manager	(NULL)	(NULL)
3	STF	Staff/Kasir	(NULL)	(NULL)

5.

```
C:\laragon\www\WebLanjut\POS(main -> origin)
λ php artisan make:seeder UserSeeder
```

INFO Seeder [C:\laragon\www\WebLanjut\POS\database\seeders\UserSeeder.php] created successfully.

seeders

DatabaseSeeder.php

LevelSeeder.phpU

UserSeeder.phpU

7.

```
C:\laragon\www\WebLanjut\POS(main -> origin)
λ php artisan db:seed --class=UserSeeder
```

INFO Seeding database.

8.

Laragon.MySQL304,0 KiB

✓pwl_pos304,0 KiB

failed_jobs16,0 KiB

migrations16,0 KiB

m_barang32,0 KiB

m_kategori16,0 KiB

m_level16,0 KiB

m_user32,0 KiB

pwl_pos.m_user: 3 rows total (approximately)

user_id	level_id	username	nama	password
1	1	admin	Administrator	\$2y\$12\$Pge1XOURPD41w9SZn3oFQuuCI/qh0F...
2	2	manager	Manager	\$2y\$12\$hsgOXg31tLqC7InTmvI3KOz4lDap6PcLE..
3	3	staff	Staff	\$2y\$12\$Xu7BF81bqqWGOCmW/tLOcO5zjFIUtm..



10.

```
C:\laragon\www\WebLanjut\POS(main -> origin)
λ php artisan make:seeder MKategoriSeeder

INFO Seeder [C:\laragon\www\WebLanjut\POS\database\seeders\MKategoriSeeder.php] created successfully.

C:\laragon\www\WebLanjut\POS(main -> origin)
λ php artisan make:seeder MBarangSeeder

INFO Seeder [C:\laragon\www\WebLanjut\POS\database\seeders\MBarangSeeder.php] created successfully.

C:\laragon\www\WebLanjut\POS(main -> origin)
λ php artisan make:seeder TStokSeeder

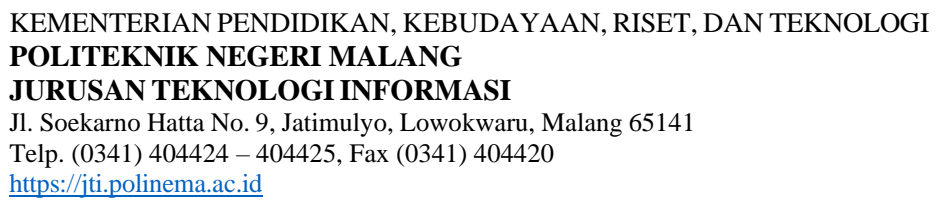
INFO Seeder [C:\laragon\www\WebLanjut\POS\database\seeders\TStokSeeder.php] created successfully.

C:\laragon\www\WebLanjut\POS(main -> origin)
λ php artisan make:seeder TPenjualanSeeder

INFO Seeder [C:\laragon\www\WebLanjut\POS\database\seeders\TPenjualanSeeder.php] created successfully.

C:\laragon\www\WebLanjut\POS(main -> origin)
λ php artisan make:seeder TPenjualanDetailSeeder

INFO Seeder [C:\laragon\www\WebLanjut\POS\database\seeders\TPenjualanDetailSeeder.php] created successfully.
```

Laragon.MySQL 304,0 KiB

- pwl_pos** 304,0 KiB
 - failed_jobs 16,0 KiB
 - migrations 16,0 KiB
 - m_barang 32,0 KiB
 - m_kategori** 16,0 KiB
 - m_level 16,0 KiB

kategori_id	kategori_kode	kategori_nama	created_at	updated_at
1	FNB	Food & Beverage	(NULL)	(NULL)
2	BEAUTY	Beauty & Health	(NULL)	(NULL)
3	HOME	Home Care	(NULL)	(NULL)
4	BABY	Baby & Kid	(NULL)	(NULL)
5	ELEC	Electronics	(NULL)	(NULL)

Laragon.MySQL 304,0 KiB

- pwl_pos** 304,0 KiB
 - failed_jobs 16,0 KiB
 - migrations 16,0 KiB
 - m_barang** 32,0 KiB
 - m_kategori 16,0 KiB
 - m_level 16,0 KiB
 - m_user 32,0 KiB
 - password_r... 16,0 KiB
 - personal_ac... 16,0 KiB
 - t_penjualan 32,0 KiB

pwl_pos.m_barang: 10 rows total (approximately)

barang_id	kategori_id	barang_kode	barang_nama	harga_beli	harga_jual	created_at	updated_at
1	1	B001	Kopi	5.000	7.000	(NULL)	(NULL)
2	1	B002	Teh	4.000	6.000	(NULL)	(NULL)
3	2	B003	Sabun Mandi	8.000	12.000	(NULL)	(NULL)
4	2	B004	Shampoo	10.000	15.000	(NULL)	(NULL)
5	3	B005	Detergen	12.000	18.000	(NULL)	(NULL)
6	3	B006	Pembersih Lantai	9.000	13.000	(NULL)	(NULL)
7	4	B007	Susu Formula	25.000	35.000	(NULL)	(NULL)
8	4	B008	Popok Bayi	50.000	70.000	(NULL)	(NULL)
9	5	B009	Smartphone	2.000.000	2.500.000	(NULL)	(NULL)
10	5	B010	Laptop	6.000.000	7.500.000	(NULL)	(NULL)



✓ pwl_pos	304,0 KiB
failed_jobs	16,0 KiB
migrations	16,0 KiB
m_barang	32,0 KiB
m_kategori	16,0 KiB
m_level	16,0 KiB
m_user	32,0 KiB
password_r...	16,0 KiB
personal_ac...	16,0 KiB
t_penjualan	32,0 KiB
t_penjualan...	48,0 KiB
t_stok	48,0 KiB

stok_id	barang_id	user_id	stok_tanggal	stok_jumlah	created_at	updated_at
1	1	1	2025-02-22 09:26:35	10	(NULL)	(NULL)
2	2	2	2025-02-22 09:26:35	27	(NULL)	(NULL)
3	3	3	2025-02-22 09:26:35	20	(NULL)	(NULL)
4	4	4	2025-02-22 09:26:35	47	(NULL)	(NULL)
5	5	1	2025-02-22 09:26:35	20	(NULL)	(NULL)
6	6	1	2025-02-22 09:26:35	12	(NULL)	(NULL)
7	7	1	2025-02-22 09:26:35	47	(NULL)	(NULL)
8	8	1	2025-02-22 09:26:35	13	(NULL)	(NULL)
9	9	1	2025-02-22 09:26:35	37	(NULL)	(NULL)
10	10	1	2025-02-22 09:26:35	21	(NULL)	(NULL)

Laragon.MySQL	304,0 KiB
✓ pwl_pos	304,0 KiB
failed_jobs	16,0 KiB
migrations	16,0 KiB
m_barang	32,0 KiB
m_kategori	16,0 KiB
m_level	16,0 KiB
m_user	32,0 KiB
password_r...	16,0 KiB
personal_ac...	16,0 KiB
t_penjualan	32,0 KiB
t_penjualan...	48,0 KiB
























pwl_pos.t_penjualan: 10 rows total (approximately)

penjualan_id	user_id	pembeli	penjualan_kode	penjualan_tanggal	created_at	updated_at
1	1	Customer 1	TRX001	2025-02-22 09:26:50	(NULL)	(NULL)
2	1	Customer 2	TRX002	2025-02-22 09:26:50	(NULL)	(NULL)
3	1	Customer 3	TRX003	2025-02-22 09:26:50	(NULL)	(NULL)
4	1	Customer 4	TRX004	2025-02-22 09:26:50	(NULL)	(NULL)
5	1	Customer 5	TRX005	2025-02-22 09:26:50	(NULL)	(NULL)
6	1	Customer 6	TRX006	2025-02-22 09:26:50	(NULL)	(NULL)
7	1	Customer 7	TRX007	2025-02-22 09:26:50	(NULL)	(NULL)
8	1	Customer 8	TRX008	2025-02-22 09:26:50	(NULL)	(NULL)
9	1	Customer 9	TRX009	2025-02-22 09:26:50	(NULL)	(NULL)
10	1	Customer 10	TRX010	2025-02-22 09:26:50	(NULL)	(NULL)

✓ pwl_pos	304,0 KiB
failed_jobs	16,0 KiB
migrations	16,0 KiB
m_barang	32,0 KiB
m_kategori	16,0 KiB
m_level	16,0 KiB
m_user	32,0 KiB
password_r...	16,0 KiB
personal_ac...	16,0 KiB
t_penjualan	32,0 KiB
t_penjuala...	48,0 KiB
t_stok	48,0 KiB
users	16,0 KiB

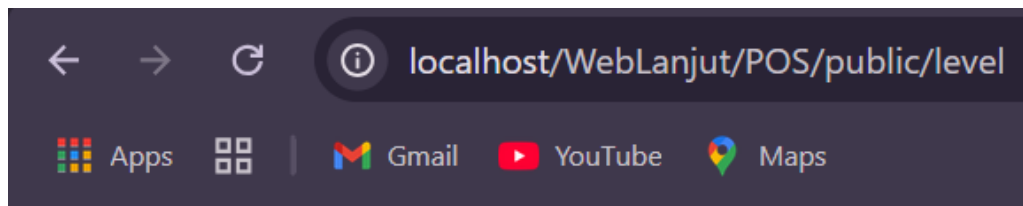
detail_id	penjualan_id	barang_id	harga	jumlah	created_at	updated_at
1	1	1	5.695.415	3	(NULL)	(NULL)
2	1	2	3.503.190	3	(NULL)	(NULL)
3	1	3	4.893.689	3	(NULL)	(NULL)
4	2	1	5.090.985	3	(NULL)	(NULL)
5	2	4	471.995	1	(NULL)	(NULL)
6	2	6	1.946.341	1	(NULL)	(NULL)
7	3	1	3.542.269	4	(NULL)	(NULL)
8	3	2	7.486.219	2	(NULL)	(NULL)
9	3	6	4.118.423	3	(NULL)	(NULL)
10	4	7	3.656.318	5	(NULL)	(NULL)
11	4	1	5.113.240	2	(NULL)	(NULL)
12	4	8	6.381.630	3	(NULL)	(NULL)
13	5	8	2.732.318	5	(NULL)	(NULL)
14	5	7	6.269.214	3	(NULL)	(NULL)
15	5	9	6.354.733	1	(NULL)	(NULL)
16	6	8	5.715.799	2	(NULL)	(NULL)
17	6	4	1.265.959	2	(NULL)	(NULL)
18	6	7	5.189.522	5	(NULL)	(NULL)
19	7	3	2.548.170	3	(NULL)	(NULL)
20	7	8	7.143.061	1	(NULL)	(NULL)
21	7	2	7.331.952	1	(NULL)	(NULL)
22	8	8	3.183.078	3	(NULL)	(NULL)
23	8	10	305.874	2	(NULL)	(NULL)
24	8	1	2.356.628	3	(NULL)	(NULL)
25	9	1	3.838.805	2	(NULL)	(NULL)
26	9	9	6.489.155	2	(NULL)	(NULL)
27	9	6	2.601.270	4	(NULL)	(NULL)
28	10	6	545.117	4	(NULL)	(NULL)
29	10	10	1.408.025	5	(NULL)	(NULL)
30	10	3	7.280.821	5	(NULL)	(NULL)



11.	<div><div><div> MBarangSeeder.php</div><div>create seeder</div><div>1 minute ago</div></div><div><div> MKategoriSeeder.php</div><div>create seeder</div><div>1 minute ago</div></div><div><div> TPenjualanDetailSeeder.php</div><div>create seeder</div><div>1 minute ago</div></div><div><div> TPenjualanSeeder.php</div><div>create seeder</div><div>1 minute ago</div></div><div><div> TStokSeeder.php</div><div>create seeder</div><div>1 minute ago</div></div></div>																																				
	Praktikum 4 – Implementasi DB Facade																																				
	1.	<pre>C:\laragon\www\WebLanjut\POS(main -> origin) λ php artisan make:controller LevelController INFO Controller [C:\laragon\www\WebLanjut\POS\app\Http\Controllers\LevelController.php] created successfully.</pre>																																			
	4.	<div>pwl_pos.m_level: 4 rows total (approximately)</div> <table><tr><th>level_id</th><th></th><th>level_kode</th><th></th><th>level_nama</th><th>created_at</th><th>updated_at</th></tr><tr><td>1</td><td></td><td>ADM</td><td></td><td>Administrator</td><td>(NULL)</td><td>(NULL)</td></tr><tr><td>2</td><td></td><td>MNG</td><td></td><td>Manager</td><td>(NULL)</td><td>(NULL)</td></tr><tr><td>3</td><td></td><td>STF</td><td></td><td>Staff/Kasir</td><td>(NULL)</td><td>(NULL)</td></tr><tr><td>4</td><td></td><td>CUS</td><td></td><td>Pelanggan</td><td>2025-02-22 09:46:43</td><td>(NULL)</td></tr></table>	level_id		level_kode		level_nama	created_at	updated_at	1		ADM		Administrator	(NULL)	(NULL)	2		MNG		Manager	(NULL)	(NULL)	3		STF		Staff/Kasir	(NULL)	(NULL)	4		CUS		Pelanggan	2025-02-22 09:46:43	(NULL)
	level_id		level_kode		level_nama	created_at	updated_at																														
1		ADM		Administrator	(NULL)	(NULL)																															
2		MNG		Manager	(NULL)	(NULL)																															
3		STF		Staff/Kasir	(NULL)	(NULL)																															
4		CUS		Pelanggan	2025-02-22 09:46:43	(NULL)																															
6.	<div>pwl_pos.m_level: 4 rows total (approximately)</div> <table><tr><th>level_id</th><th></th><th>level_kode</th><th></th><th>level_nama</th><th>created_at</th><th>updated_at</th></tr><tr><td>1</td><td></td><td>ADM</td><td></td><td>Administrator</td><td>(NULL)</td><td>(NULL)</td></tr><tr><td>2</td><td></td><td>MNG</td><td></td><td>Manager</td><td>(NULL)</td><td>(NULL)</td></tr><tr><td>3</td><td></td><td>STF</td><td></td><td>Staff/Kasir</td><td>(NULL)</td><td>(NULL)</td></tr><tr><td>4</td><td></td><td>CUS</td><td></td><td>Customer</td><td>2025-02-22 09:46:43</td><td>(NULL)</td></tr></table>	level_id		level_kode		level_nama	created_at	updated_at	1		ADM		Administrator	(NULL)	(NULL)	2		MNG		Manager	(NULL)	(NULL)	3		STF		Staff/Kasir	(NULL)	(NULL)	4		CUS		Customer	2025-02-22 09:46:43	(NULL)	
level_id		level_kode		level_nama	created_at	updated_at																															
1		ADM		Administrator	(NULL)	(NULL)																															
2		MNG		Manager	(NULL)	(NULL)																															
3		STF		Staff/Kasir	(NULL)	(NULL)																															
4		CUS		Customer	2025-02-22 09:46:43	(NULL)																															
7.	<div>pwl_pos.m_level: 3 rows total (approximately)</div> <table><tr><th>level_id</th><th></th><th>level_kode</th><th></th><th>level_nama</th><th>created_at</th><th>updated_at</th></tr><tr><td>1</td><td></td><td>ADM</td><td></td><td>Administrator</td><td>(NULL)</td><td>(NULL)</td></tr><tr><td>2</td><td></td><td>MNG</td><td></td><td>Manager</td><td>(NULL)</td><td>(NULL)</td></tr><tr><td>3</td><td></td><td>STF</td><td></td><td>Staff/Kasir</td><td>(NULL)</td><td>(NULL)</td></tr></table>	level_id		level_kode		level_nama	created_at	updated_at	1		ADM		Administrator	(NULL)	(NULL)	2		MNG		Manager	(NULL)	(NULL)	3		STF		Staff/Kasir	(NULL)	(NULL)								
level_id		level_kode		level_nama	created_at	updated_at																															
1		ADM		Administrator	(NULL)	(NULL)																															
2		MNG		Manager	(NULL)	(NULL)																															
3		STF		Staff/Kasir	(NULL)	(NULL)																															



10.



Data Level Pengguna

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

Kode pada controller digunakan untuk mengakses view yang kemudian menampilkan data pengguna yang tersimpan di database dalam bentuk tabel.

Praktikum 5 – Implementasi Query Builder

1.

```
C:\laragon\www\WebLanjut\POS(main -> origin)
λ php artisan make:controller KategoriController

INFO Controller [C:\laragon\www\WebLanjut\POS\app\Http\Controllers\KategoriController.php] created successfully.
```

4.

pwl_pos.m_kategori: 6 rows total (approximately)

kategori_id	kategori_kode	kategori_nama	created_at	updated_at
1	FNB	Food & Beverage	(NULL)	(NULL)
2	BEAUTY	Beauty & Health	(NULL)	(NULL)
3	HOME	Home Care	(NULL)	(NULL)
4	BABY	Baby & Kid	(NULL)	(NULL)
5	ELEC	Electronics	(NULL)	(NULL)
6	SNK	Snack/Makanan Ringan	2025-02-22 10:21:59	(NULL)



6.

pwl_pos.m_kategori: 6 rows total (approximately)

kategori_id	kategori_kode	kategori_nama	created_at	updated_at
1	FNB	Food & Beverage	(NULL)	(NULL)
2	BEAUTY	Beauty & Health	(NULL)	(NULL)
3	HOME	Home Care	(NULL)	(NULL)
4	BABY	Baby & Kid	(NULL)	(NULL)
5	ELEC	Electronics	(NULL)	(NULL)
6	SNK	Camilan	2025-02-22 10:21:59	(NULL)

7.

pwl_pos.m_kategori: 5 rows total (approximately)

kategori_id	kategori_kode	kategori_nama	created_at	updated_at
1	FNB	Food & Beverage	(NULL)	(NULL)
2	BEAUTY	Beauty & Health	(NULL)	(NULL)
3	HOME	Home Care	(NULL)	(NULL)
4	BABY	Baby & Kid	(NULL)	(NULL)
5	ELEC	Electronics	(NULL)	(NULL)

10.

← → ↺ ⓘ localhost/WebLanjut/POS/public/kategori

Apps | Gmail YouTube Maps

Data Kategori Barang

ID	Kode Kategori	Nama Kategori
1	FNB	Food & Beverage
2	BEAUTY	Beauty & Health
3	HOME	Home Care
4	BABY	Baby & Kid
5	ELEC	Electronics

Kode pada controller digunakan untuk mengakses view yang kemudian menampilkan data pengguna yang tersimpan di database dalam bentuk tabel.



11.

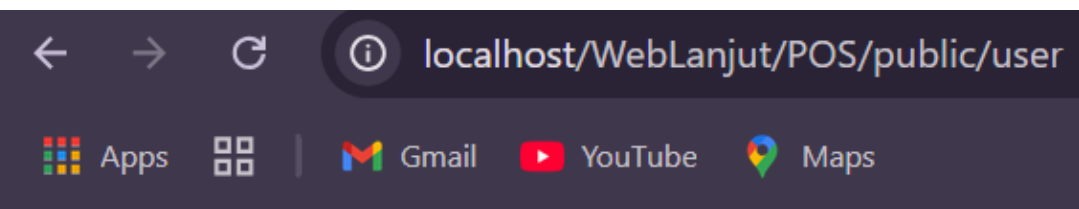
app	create kategori controller	1 minute ago
bootstrap	first commit	6 hours ago
config	first commit	6 hours ago
database	create seeder	1 hour ago
public	first commit	6 hours ago
resources	create view for kategori	now
routes	create route for kategori	now

Praktikum 6 – Implementasi Eloquent ORM

1

```
C:\laragon\www\WebLanjut\POS(main -> origin)
λ php artisan make:model UserModel
INFO Model [C:\laragon\www\WebLanjut\POS\app\Models\UserModel.php] created successfully.
```

7.

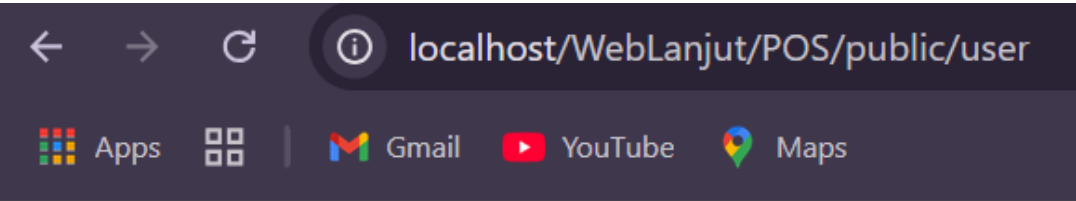


Data User

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



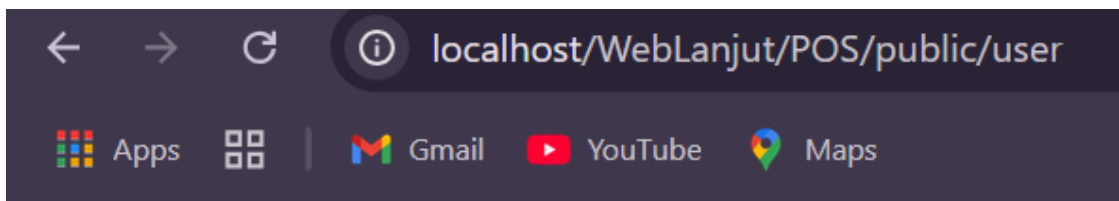
9.



Data User

ID	Username	Nama	ID Level Pengguna
1	admin	Administrator	1
2	manager	Manager	2
3	staff	Staff	3
7	customer-1	Pelanggan	5

11.



Data User

ID	Username	Nama	ID Level Pengguna
1	admin	Administrator	1
2	manager	Manager	2
3	staff	Staff	3
7	customer-1	Pelanggan Pertama	5



12.

Name	Last commit message	Last commit date
..		
app	create model for user	4 minutes ago
bootstrap	first commit	7 hours ago
config	first commit	7 hours ago
database	create seeder	2 hours ago
public	first commit	7 hours ago
resources	create view user for jobsheet 3	4 minutes ago
routes	create route user for jobsheet 3	3 minutes ago

Pertanyaan

1.

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

- Untuk mengenkripsi dan mendekripsi data, seperti session dan cookies.
- Memastikan data hanya bisa dibaca oleh aplikasi yang memilikinya, sehingga mencegah akses atau manipulasi oleh pihak yang tidak berwenang.
- Untuk membuat hash yang aman, misalnya pada token reset password.





2.

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

- Menggunakan 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?

-  2014_10_12_000000_create_users_table.php
-  2014_10_12_100000_create_password_reset_tokens_table.php
-  2019_08_19_000000_create_failed_jobs_table.php
-  2019_12_14_000001_create_personal_access_tokens_table.php

Terdapat 4 file tersebut.

File 2014_10_12_000000_create_users_table.php digunakan untuk membuat tabel users yang digunakan untuk menyimpan informasi akun pengguna.

File 2014_10_12_100000_create_password_reset_tokens_table.php untuk membuat tabel password reset tokens untuk menyimpan token reset password sementara yang memungkinkan pengguna mereset password dengan aman.

File 2019_08_19_000000_create_failed_jobs_table.php untuk membuat tabel failef jobs yang mencatat pekerjaan yang gagal diproses dalam queue sehingga



	<p>mempermudah pemantauan dan debugging antrian yang gagal.</p> <p>File 2019_12_14_000001_create_personal_access_tokens_table.php untuk membuat tabel personal access tokens untuk menyimpan token akses pribadi dan memungkinkan autentikasi API yang aman.</p>
4.	<p>Secara default, file migrasi terdapat kode <code>\$table->timestamps();</code>, apa tujuan/output dari fungsi tersebut?</p> <ul style="list-style-type: none">• Untuk menambahkan kolom <code>created_at</code> (menyimpan kapan dilakukan insert data) dan <code>updated_at</code>. (menyimpan kapan data terakhir diperbarui).
5.	<p>Pada File Migrasi, terdapat fungsi <code>\$table->id();</code> Tipe data apa yang dihasilkan dari fungsi tersebut?</p> <ul style="list-style-type: none">• Tipe data yang dihasilkan yaitu <code>Unsigned Big Integer</code> yang memungkinkan untuk menyimpan nilai numerik yang lebih besar dari <code>INT</code> biasa.
6.	<p>Apa bedanya hasil migrasi pada table <code>m_level</code>, antara menggunakan <code>\$table->id();</code> dengan menggunakan <code>\$table->id('level_id');</code>?</p> <ul style="list-style-type: none">• Perbedaan antara kedua kode tersebut yaitu nama kolom <code>Primary Key</code> yang dihasilkan. <code>\$table->id();</code> menghasilkan nama kolom <code>id</code>, sedangkan <code>\$table->id('level_id');</code> menghasilkan nama kolom <code>level_id</code>.
7.	<p>Pada migration, Fungsi <code>->unique()</code> digunakan untuk apa?</p> <ul style="list-style-type: none">• Untuk menetapkan kolom sebagai kode unik sehingga tidak boleh ada nilai duplikat.
8.	<p>Pada Praktikum 2.2 - Tahap 2, kenapa kolom <code>level_id</code> pada tabel <code>m_user</code> menggunakan <code>\$table->unsignedBigInteger('level_id')</code>, sedangkan kolom <code>level_id</code> pada tabel <code>m_level</code> menggunakan <code>\$table->id('level_id')</code> ?</p> <ul style="list-style-type: none">• Karena pada <code>m_level</code>, <code>level_id</code> sebagai <code>primary key</code> sehingga menggunakan <code>Unsigned BigInt</code> dan <code>auto increment</code>, sedangkan pada <code>m_user</code>, <code>level_id</code> adalah <code>foreign key</code> yang merujuk pada <code>level_id</code> pada <code>m_level</code>.
9.	<p>Pada Praktikum 3 - Tahap 6, apa tujuan dari Class Hash? dan apa maksud dari kode program <code>Hash::make('1234');</code>?</p> <ul style="list-style-type: none">• Class Hash digunakan untuk mengamankan data sensitif dengan cara melakukan hashing, terutama pada password pengguna. Hashing mengubah data menjadi kode unik yang tidak bisa dikembalikan ke bentuk aslinya.
10.	<p>Pada Praktikum 4 - Tahap 3/5/7, pada query builder terdapat tanda tanya (?), apa kegunaan dari tanda tanya (?) tersebut?</p> <ul style="list-style-type: none">• Digunakan untuk memasukkan nilai ke dalam query secara dinamis dan



	meningkatkan keamanan dengan mencegah SQL Injection.
11.	<p>Pada Praktikum 6 - Tahap 3, apa tujuan penulisan kode <code>protected \$table = 'm_user';</code> dan <code>protected \$primaryKey = 'user_id';</code> ?</p> <ul style="list-style-type: none">• <code>protected \$table = 'm_user';</code> untuk memberitahu laravel bahwa model tersebut menggunakan tabel <code>m_user</code> di database, sedangkan <code>protected \$primaryKey = 'user_id';</code> untuk mendefinisikan nama <code>primary_key</code> yang digunakan jika tidak menggunakan nama default dari <code>primary key</code>.
12.	<p>Menurut kalian, lebih mudah menggunakan mana dalam melakukan operasi CRUD ke database (DB Façade / Query Builder / Eloquent ORM) ? jelaskan</p> <ul style="list-style-type: none">• Lebih mudah menggunakan Query Builder karena kode yang digunakan mirip seperti query database sehingga lebih familiar dan lebih mudah dipahami.