

Atelier 5 : Gestion des modèles, migrations, et seeding

Créer une base de données MySQL sur un serveur distant en utilisant AlwaysData.

The screenshot shows the AlwaysData web interface for managing MySQL databases. The top navigation bar includes links for Support, Documentation, and Customer area (with email said200512345@gmail.com). The main left sidebar has sections for Disk, Web, Domains, Emails, Databases (selected), Remote access, Environment, and Advanced. Under Databases, there are MySQL, PostgreSQL, and RabbitMQ options. The right panel displays the MySQL host information: mysql-saidnnnn.alwaysdata.net, Version: 10.11 (mariadb), and phpMyAdmin. Below this are tabs for DATABASES, USERS, and PROCESSES. A button '+ Add a database' is visible. A table lists the database 'saidnnnn_laravel' with 1 user. A green notification at the bottom right says 'The saidnnnn_laravel database has been created.'

Créer un utilisateur MySQL et lui attribuer les droits nécessaires sur la base.

The screenshot shows the AlwaysData web interface for managing MySQL users. The top navigation bar and sidebar are identical to the previous screenshot. The right panel displays the MySQL host information and the USERS tab. A button '+ Add a user' is visible. A table lists two users: 'saidnnnn' and 'saidnnnn_second', each with 1 database. A green notification at the bottom right says 'The saidnnnn_second user has been created.'

Configurer la connexion à la base de données dans le fichier .env du projet Laravel.

> tests	22
> vendor	23 DB_CONNECTION=mysql
↳ .editorconfig	24 DB_HOST=mysql-saidnnnn.alwaysdata.net
↳ .env	25 DB_PORT=3306
↳ .env.example	26 DB_DATABASE=saidnnnn_laravel
↳ .gitattributes	27 DB_USERNAME=saidnnnn
↳ .gitignore	28 DB_PASSWORD=U6kZTxWEj*FgVwS
	29

Créer une migration pour la table articles.

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

powershell - atelier5 + ×

- PS C:\Users\PC\Documents\laravel-ateliers> cd "atelier5"
- PS C:\Users\PC\Documents\laravel-ateliers\atelier5> php artisan config:clear

INFO Configuration cache cleared successfully.

- PS C:\Users\PC\Documents\laravel-ateliers\atelier5> php artisan cache:clear

Illuminate\Database\QueryException

```
SQLSTATE[42S02]: Base table or view not found: 1146 Table 'saidnnnn_laravel.cache' doesn't exist (Connection: mysql, Host: mysql-saidnnnn.alwaysdata.net, Port: 3306, Database: saidnnnn_laravel, SQL: delete from `cache`)
```

at vendor\laravel\framework\src\Illuminate\Database\Connection.php:838

```
834     $exceptionType = $this->isUniqueConstraintError($e)
835         ? UniqueConstraintViolationException::class
836         : QueryException::class;
837
→ 838     throw new $exceptionType(
839         $this->getNameWithReadWriteType(),
840         $query,
841         $this->prepareBindings($bindings),
842         $e,
```

1 vendor\laravel\framework\src\Illuminate\Database\Connection.php:605

```
PDOException::("SQLSTATE[42S02]: Base table or view not found: 1146 Table 'saidnnnn_laravel.cache' doesn't exist")
```

2 vendor\laravel\framework\src\Illuminate\Database\Connection.php:605

```
PDO::prepare("delete from `cache`")
```

- PS C:\Users\PC\Documents\laravel-ateliers\atelier5> php artisan config:cache

INFO Configuration cached successfully.

PS C:\Users\PC\Documents\laravel-ateliers\atelier5>

The screenshot shows a code editor with a dark theme. The current file is `AppServiceProvider.php`, which is part of the `Providers` directory under `app`. The file contains PHP code for a service provider:

```
1 <?php
2
3 namespace App\Providers;
4
5 use Illuminate\Support\ServiceProvider;
6 use Illuminate\Support\Facades\Schema;
7
8 class AppServiceProvider extends ServiceProvider
9 {
10     /**
11      * Register any application services.
12      */
13     public function register(): void
14     {
15         //
16     }
17
18     /**
19      * Bootstrap any application services.
20      */
21     public function boot(): void
22     {
23         Schema::defaultStringLength(200);
24     }
25 }
26
```

The screenshot shows the VS Code terminal tab, titled "powershell - atelier5". It displays the output of several Laravel commands:

- `PS C:\Users\...> cd "atelier5"`
- `PS C:\Users\...> php artisan make:model Article -m`
- `[INFO] Model [c:\Users\...Models\Article.php] created successfully.`
- `[INFO] Migration [c:\Users\...database\migrations\2026_01_13_203542_create_articles_table.php] created successfully.`
- `PS C:\Users\...>`

At the bottom of the terminal, it says "sbenyaish" and shows status information: "Ln 26, Col 1" and "PHP".

The screenshot shows a code editor with a dark theme. The top bar has tabs for '.env', 'AppServiceProvider.php', and '2026_01_13_203542_create_articles_table.php'. The current file is '2026_01_13_203542_create_articles_table.php'. The code is a PHP migration class:

```
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('articles', function (Blueprint $table) {
15             $table->id();
16             $table->string('titre');
17             $table->text('contenu');
18             $table->text('image');
19             $table->timestamps();
20         });
21     }
22
23     /**
24      * Reverse the migrations.
25      */
26     public function down(): void
27     {
28         Schema::dropIfExists('articles');
29     }
30 };
31
```

Exécuter les migrations afin de créer la table dans la base de données distante.

The screenshot shows a terminal window with the following output:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS powershell - atelier5 + ×
```

```
● PS C:\Users\PC\Documents\laravel-ateliers> cd "atelier5"
● PS C:\Users\PC\Documents\laravel-ateliers\atelier5> php artisan migrate
```

```
INFO | Preparing database.

Creating migration table ..... 1s DONE
INFO | Running migrations.

0001_01_01_00000_create_users_table ..... 4s DONE
0001_01_01_00001_create_cache_table ..... 1s DONE
0001_01_01_00002_create_jobs_table ..... 2s DONE
2026_01_13_203542_create_articles_table ..... 129.15ms DONE
```

Créer un seeder pour insérer des données de test dans la table articles.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS  powershell - atelier5 + ×   ⋮ | ×  
PS C:\Users\DELL PC\Documents\laravel-ateliers> cd "atelier5"  
PS C:\Users\DELL PC\Documents\laravel-ateliers\atelier5> php artisan make:seed ArticleSeeder  
  
[INFO] Seeder [C:\Users\DELL PC\Documents\laravel-ateliers\atelier5\database\seeders\ArticleSeeder.php] created successfully.
```

```
1 <?php
2
3 namespace Database\Seeders;
4
5 use Illuminate\Database\Seeder;
6 use App\Models\Article;
7 use Faker\Factory as Faker;
8
9 class ArticleSeeder extends Seeder
10 {
11     /**
12      * Run the database seeds.
13      */
14     public function run(): void
15     {
16         $faker = Faker::create();
17
18         for ($i = 0; $i < 10; $i++) {
19             Article::create([
20                 'titre' => $faker->sentence(),
21                 'contenu' => $faker->text(300),
22                 'image' => $faker->imageUrl(),
23             ]);
24         }
25     }
26 }
27
```