

# 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 'MySQL databases' management page in the AlwaysData console. The left sidebar contains navigation options: Disk, Web, Domains, Emails, Databases (selected), Remote access, Environment, and Advanced. The 'Databases' section is expanded, showing 'MySQL' as the selected database type. The main content area displays the MySQL host information: 'mysql-saidnnnn.alwaysdata.net', Version: 10.11 (mariadb), and phpMyAdmin. Below this, there are tabs for 'DATABASES', 'USERS', and 'PROCESSES'. The 'DATABASES' tab is active, showing a table with columns 'Name' and 'Users'. The table contains one entry: 'saidnnnn\_laravel' with '1' user. A '+ Add a database' button is visible. A green notification banner at the bottom right states: 'The saidnnnn\_laravel database has been created.'

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

The screenshot shows the 'MySQL users' management page in the AlwaysData console. The left sidebar is identical to the previous screenshot, with 'Databases' selected. The main content area displays the MySQL host information: 'mysql-saidnnnn.alwaysdata.net', Version: 10.11 (mariadb), and phpMyAdmin. Below this, there are tabs for 'DATABASES', 'USERS', and 'PROCESSES'. The 'USERS' tab is active, showing a table with columns 'Name' and 'Databases'. The table contains two entries: 'saidnnnn' and 'saidnnnn\_second', both with '1' database. A '+ Add a user' button is visible. A green notification banner at the bottom right states: 'The saidnnnn\_second user has been created.'

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

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

Créer une migration pour la table articles.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS powershell - atelier5 + - [ ] [ ] ... [X]
• PS C:\Users\Dell PC\Documents\laravel-ateliers> cd "atelier5"
• PS C:\Users\Dell PC\Documents\laravel-ateliers\atelier5> php artisan config:clear

INFO Configuration cache cleared successfully.

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

INFO Configuration cached successfully.

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

```
.env AppServiceProvider.php X
atelier5 > app > Providers > AppServiceProvider.php > AppServiceProvider > boot
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
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS powershell - atelier5 + - - - | X
• PS C:\Users\Dell PC\Documents\laravel-ateliers> cd "atelier5"
• PS C:\Users\Dell PC\Documents\laravel-ateliers\atelier5> php artisan make:model Article -m

[INFO] Model [C:\Users\Dell PC\Documents\laravel-ateliers\atelier5\app\Models\Article.php] created successfully.

[INFO] Migration [C:\Users\Dell PC\Documents\laravel-ateliers\atelier5\database\migrations\2026_01_13_203542_create_articles_table.php] created successfully.

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

henyaishc Ln 26, Col 1 Spaces: 4 UTF-8 LF ( ) PHP  Go Live
```

```
.env AppServiceProvider.php 2026_01_13_203542_create_articles_table.php X
atelier5 > database > migrations > 2026_01_13_203542_create_articles_table.php > class > up
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.

```
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 migrate

INFO Preparing database.

Creating migration table ..... 1s DONE

INFO Running migrations.

0001_01_01_000000_create_users_table ..... 4s DONE
0001_01_01_000001_create_cache_table ..... 1s DONE
0001_01_01_000002_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 + v [ ] [ ] ... | x
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.
```

```
2026_01_13_203542_create_articles_table.php Article.php ArticleSeeder.php x [ ] ...
atelier5 > database > seeders > ArticleSeeder.php > ...
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
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS powershell - atelier5 + v [ ] [ ] ... | x
● PS C:\Users\Dell PC\Documents\laravel-ateliers> cd "atelier5"
● PS C:\Users\Dell PC\Documents\laravel-ateliers\atelier5> php artisan db:seed --class=ArticleSeeder

INFO Seeding database.
```