

Presque toutes les applications Web modernes interagissent avec une base de données.

Laravel rend l'interaction avec les bases de données extrêmement simple sur une variété de bases de données prises en charge à l'aide de SQL brut, d'un [générateur de requêtes fluide](#) et de l'[ORM Eloquent](#) . Actuellement, Laravel fournit un support de première partie pour cinq bases de données :

- MariaDB 10.3+ ([Politique de version](#))
- MySQL 5.7+ ([politique de version](#))
- PostgreSQL 10.0+ ([politique de version](#))
- SQLite 3.8.8+
- SQL Server 2017+ ([politique de version](#))

Les modèles Laravel



Name

Email

Phone

Section

Classe PHP **Student** = **Modèle Objet**

```
class Student{
    public $name;
    public $email;
    public $section;
    //constructeur
    public function __construct($nm , $em , $sec){
        $this->name     = $nm;
        $this->email     = $em;
        $this->section   = $sec;
    }
}
```

Les modèles Laravel



Name

Email

Phone

Section

C R U D

Create Student

Show

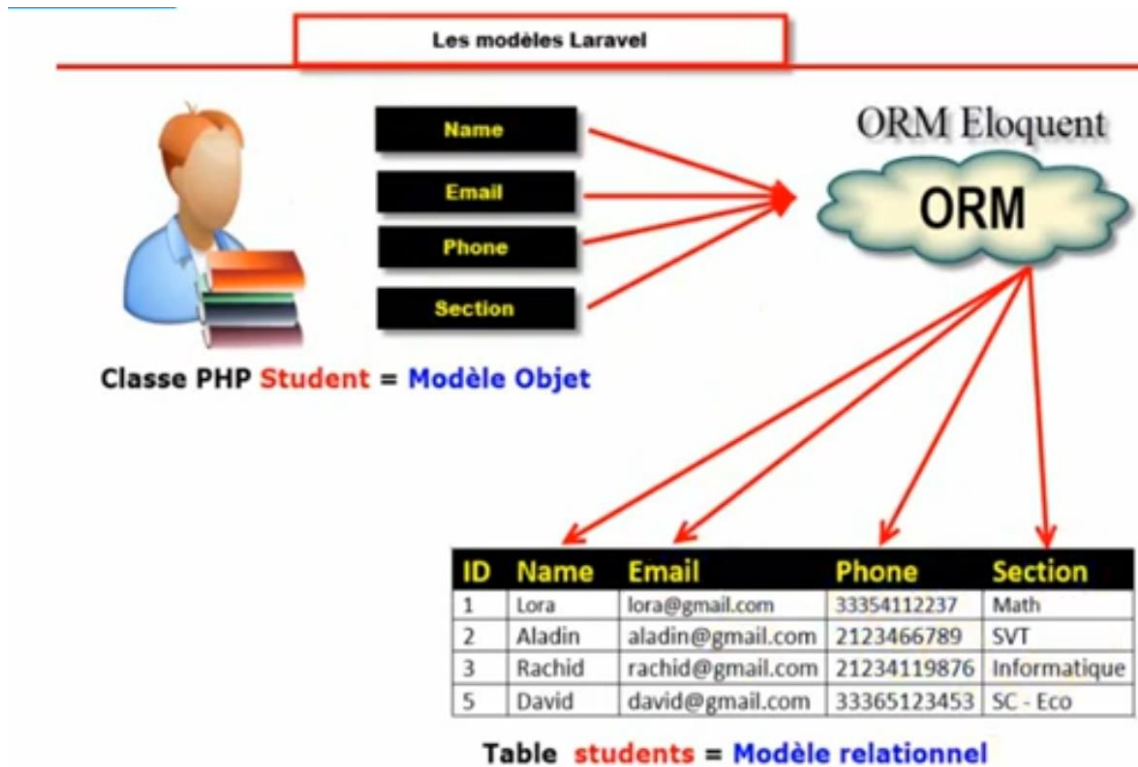
Edit

Delete

Classe PHP **Student** = **Modèle Objet**

ID	Name	Email	Phone	Section
1	Lora	lora@gmail.com	33354112237	Math
2	Aladin	aladin@gmail.com	2123466789	SVT
3	Rachid	rachid@gmail.com	21234119876	Informatique
5	David	david@gmail.com	33365123453	SC - Eco

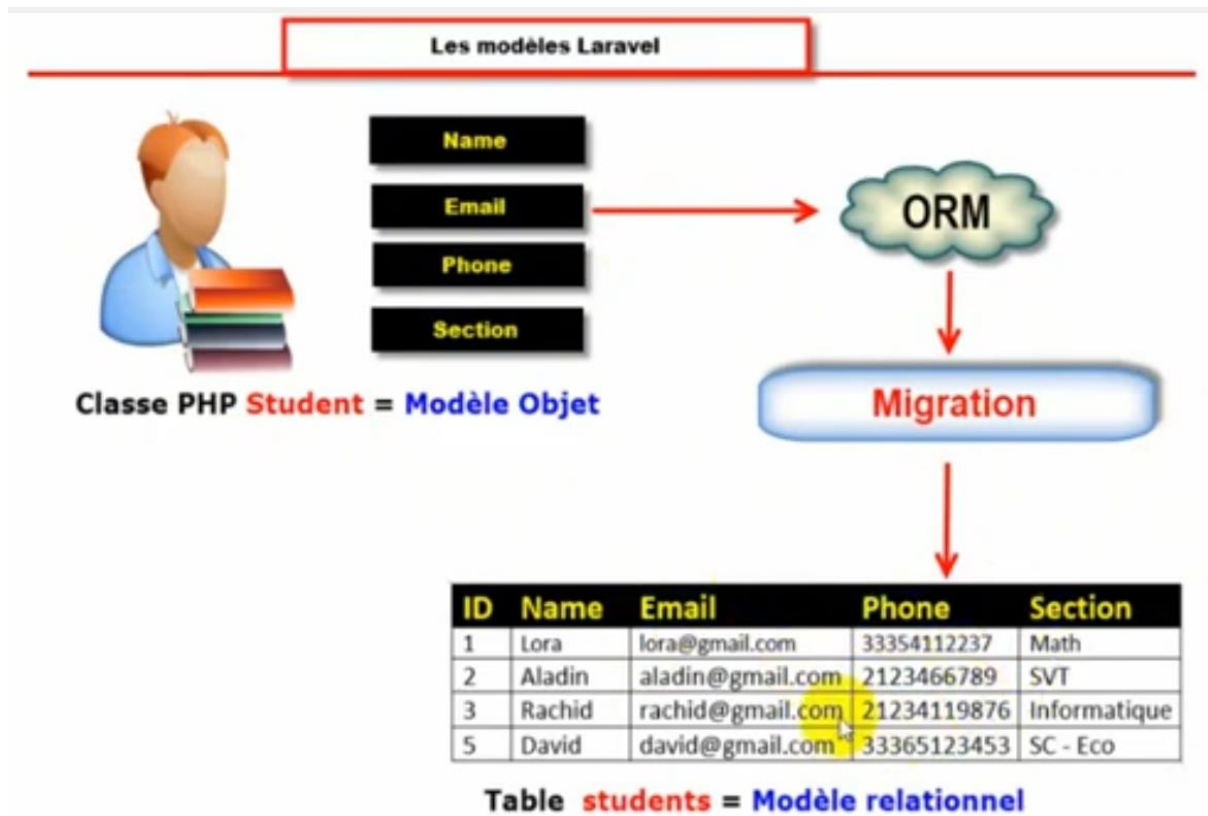
Table **students** = **Modèle relationnel**

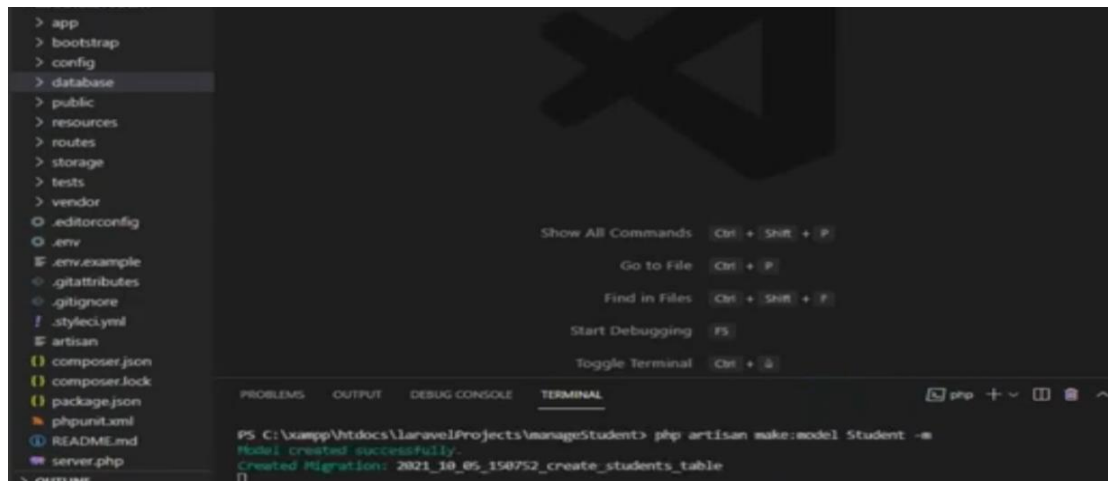


Laravel inclut Eloquent, un mappeur relationnel objet (ORM) qui rend agréable l'interaction avec votre base de données.

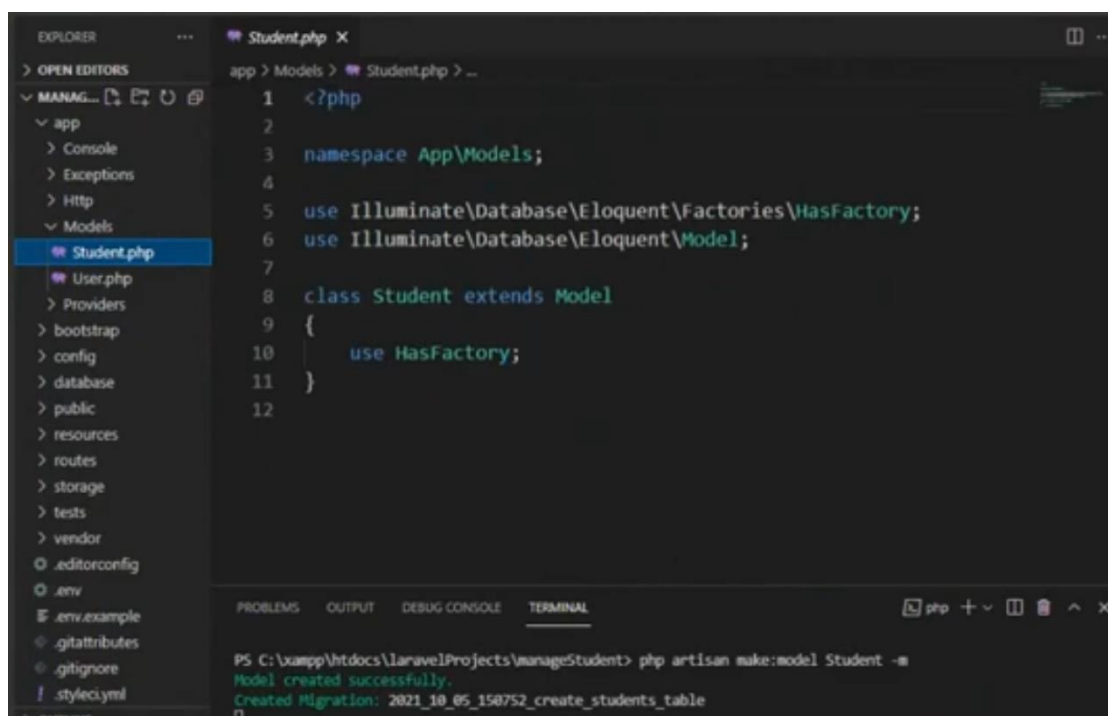
Lors de l'utilisation d'Eloquent, chaque table de base de données a un "modèle" correspondant qui est utilisé pour interagir avec cette table.

En plus de récupérer des enregistrements de la table de base de données, les modèles Eloquent vous permettent également d'insérer, de mettre à jour et de supprimer des enregistrements de la table.





➤ `php artisan make :model student -m`



Création de modèles (tables)

The screenshot shows a VS Code editor with a file explorer on the left. The file explorer is open to the 'migrations' directory, showing several files. The file '2021_10_05_150752_create_students_table.php' is selected. The editor displays the content of this file, which is a PHP migration class. The code includes a comment 'Run the migrations.', a return statement, and a public function 'up()' that uses the 'Schema::create()' method to create a table named 'students'. The table has columns for 'id', 'name', 'email', 'phone', 'section', 'image', and 'timestamps'. A blue circle highlights the closing brace of the 'up()' function. The terminal window at the bottom shows the command 'php artisan make:model Student' and the output 'Model created successfully. Created Migration: 2021_10_05_150752_create_students_table'.

```

10  * Run the migrations.
11  *
12  * @return void
13  */
14  public function up()
15  {
16      Schema::create('students', function (Blueprint $table) {
17          $table->id();
18          $table->string('name');
19          $table->string('email');
20          $table->integer('phone');
21          $table->string('section');
22          $table->string('image');
23          $table->timestamps();
24      });
25  }
26

```

PS C:\xampp\htdocs\laravel\Projects\manageStudent> php artisan make:model Student -m
Model created successfully.
Created Migration: 2021_10_05_150752_create_students_table
PS C:\xampp\htdocs\laravel\Projects\manageStudent>

➤ Configuration du fichier .env

The screenshot shows a VS Code editor with a file explorer on the left. The file explorer is open to the '.env' file. The editor displays the content of the '.env' file, which contains configuration for the application. The configuration includes the application URL, log channel, log level, database connection, host, port, database name, username, password, broadcast driver, cache driver, filesystem driver, queue connection, session driver, and session lifetime. A blue circle highlights the 'DB_PASSWORD=' line. The terminal window at the bottom shows the command 'php artisan make:model Student' and the output 'Model created successfully. Created Migration: 2021_10_05_150752_create_students_table'.

```

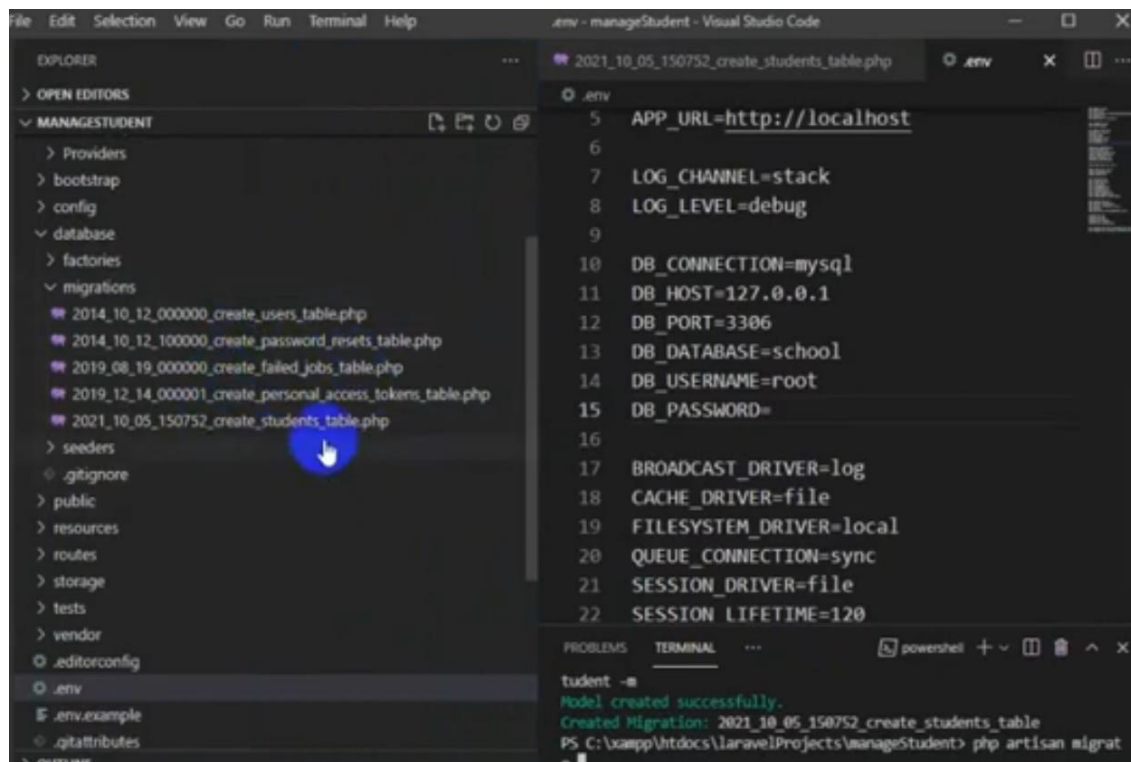
5  APP_URL=http://localhost
6
7  LOG_CHANNEL=stack
8  LOG_LEVEL=debug
9
10 DB_CONNECTION=mysql
11 DB_HOST=127.0.0.1
12 DB_PORT=3306
13 DB_DATABASE=school
14 DB_USERNAME=root
15 DB_PASSWORD=
16
17 BROADCAST_DRIVER=log
18 CACHE_DRIVER=file
19 FILESYSTEM_DRIVER=local
20 QUEUE_CONNECTION=sync
21 SESSION_DRIVER=file
22 SESSION_LIFETIME=120

```

PS C:\xampp\htdocs\laravel\Projects\manageStudent> php artisan make:model Student -m
Model created successfully.
Created Migration: 2021_10_05_150752_create_students_table
PS C:\xampp\htdocs\laravel\Projects\manageStudent>

Partir sur mysql pour créer le nom de la BD avant de migrer les modèles (tables)

➤ php artisan migrate



- Ouvrir mysql pour vérifier si les tables apparaissent