

# Foreign key CRUD in LARAVEL

## MIGRATION Page –

Command :

php artisan make:migration create\_tablename\_table

php artisan migrate

php artisan migrate:refresh

## class table Page –

```
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up(): void
    {
        Schema::create('class_data', function (Blueprint $table) {
            $table->cid();
            $table->string('class',50);
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     */
    public function down(): void
    {
        Schema::dropIfExists('class_data');
    }
};
```

## student table Page –

```
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

return new class extends Migration
{
```

```

/**
 * Run the migrations.
 */

public function up(): void
{
    Schema::create('student_data', function (Blueprint $table) {
        $table->integer('id');
        $table->string('fname',20);
        $table->string('lname',20);
        $table->string('email',50);
        $table->string('password',20);
        $table->string('confpassword',20);
        $table->unsignedBigInteger('class');
        $table->foreign('class')->references('id')->on('class_data')->
        >onUpdate('cascade')->onDelete('cascade');
        $table->string('gender',10);
        $table->text('address');
        $table->string('phone');
        $table->timestamps();
    });
}

/**
 * Reverse the migrations.
 */
public function down(): void
{
    Schema::dropIfExists('student_data');
}
};

```

### Controller Page –

Command:

php artisan make:controller StudentController

```

<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;
use Illuminate\Support\Facades\DB;

class StudentController extends Controller
{
    public function addstudentform()
    {
        $student = DB::table('class_data')->get();
        return view('add',['data' => $student]);
    }
}

```

```

}
public function addStudent(Request $req)
{
    $req->validate([
        'fname'=>'required',
        'lname'=>'required',
        'email'=>'required|email',
        'password'=>'required|min:8',
        'confpassword'=>'required|same:password|min:8',
        'gender'=>'required',
        'address'=>'required',
        'class'=>'required',
        'phone'=>'required|numeric|digits:10',

    ]);
    $student = DB::table('student_data')->insert(
        [

            'id'=>rand(111,999999999),
            'fname'=>$req->fname,
            'lname'=>$req->lname,
            'email'=>$req->email,
            'password'=>$req->password,
            'confpassword'=>$req->confpassword,
            'gender'=>$req->gender,
            'address'=>$req->address,
            'class'=>$req->class,
            'phone'=>$req->phone,

        ]
    );

    if ($student)
    {
        return redirect()->route('home')->with('success', 'Student Added Successfully');
    }

}

public function ShowStudent()
{
    $student = DB::table('student_data')->join('class_data', 'student_data.class', '=', 'class_data.cid')->get();
    return view('index', ['data' => $student]);
}

public function deleteStudent(string $id)
{
    $student = DB::table('student_data')->where('id', $id)->delete();
    if ($student)
    {

```

```

        return redirect()->route('home')->with('denger', 'Student Deleted
Successfully');
    }

}

public function singleStudent(string $id)
{
    $student = DB::table('student_data')->
>join('class_data','student_data.class','=','class_data.cid')->find($id);
    return view('view',['student' => $student]);
}

public function updatePage(string $id)
{
    $student = DB::table('student_data')->find($id);
    $student1 = DB::table('class_data')->get();
    return view('update',['data' => $student,'data1' => $student1]);
}

public function updateStudent(Request $req , $id)
{
    $req->validate([
        'fname'=>'required',
        'lname'=>'required',
        'email'=>'required|email',
        'password'=>'required|min:8',
        'confpassword'=>'required|min:8',
        'gender'=>'required',
        'address'=>'required',
        'class'=>'required',
        'phone'=>'required|numeric|digits:10',

    ]);

    $student = DB::table('student_data')
        ->where('id', $id)
        ->update(
            [
                'fname'=>$req->fname,
                'lname'=>$req->lname,
                'email'=>$req->email,
                'password'=>$req->password,
                'confpassword'=>$req->confpassword,
                'gender'=>$req->gender,
                'address'=>$req->address,
                'class'=>$req->class,
                'phone'=>$req->phone,
            ]
        )
}

```

```

        );

        if ($student)
        {
            return redirect()->route('home')->with('success', 'Student Updated
Successfully');
        }
    }
}
}

```

### route Page –

```

<?php

use App\Http\Controllers\StudentController;
use Illuminate\Support\Facades\Route;

/*
|-----
| Web Routes
|-----
|
| Here is where you can register web routes for your application. These
| routes are loaded by the RouteServiceProvider and all of them will
| be assigned to the "web" middleware group. Make something great!
|
*/

// Route::get('/add', function () {
//     return view('add');
// }->name('add'));

route::get('/add',[StudentController::class,'addstudentform']->name('add'));

route::post('/addStudent',[StudentController::class,'addStudent']->name('addStudent'));

route::get('/singleStudent/{id}',[StudentController::class,'singleStudent']->
>name('singleStudent'));

route::get('/',[StudentController::class,'ShowStudent']->name('home'));

route::get('/delete/{id}',[StudentController::class,'deleteStudent']->
>name('deleteStudent'));

route::get('/updatePage/{id}',[StudentController::class,'updatePage']->
>name('updatePage'));

route::post('/updateStudent/{id}',[StudentController::class,'updateStudent']->
>name('updateStudent'));

```

```
// route::post('/adddata',[CrudController::class,'adduser'])->name('adduser');
```

[view Page –](#)

[Header.blade.php –](#)

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <title>CRUD</title>
    <link rel="stylesheet" href="/css/style.css">
</head>
<body>
    <div id="wrapper">
        <div id="header">
            <h1>Crud</h1>
        </div>
        <div id="menu">
            <ul>
                <li>
                    <a href="{{route('home')}}">Home</a>
                </li>
                <li>
                    <a href="{{route('add')}}">Add</a>
                </li>
            </ul>
        </div>
    </div>
```

[add.blade.php –](#)

```
@include ('header')
<div id="main-content">
    <h2>Add New Record</h2>
    <form class="post-form" action="{{route('addStudent')}}" method="POST">
        @csrf
        <div class="form-group">
            <label>First Name</label>
            <input type="text" name="fname" value="{{old('fname')}}"/>
            <span style="color:red;">@error('fname'){{$message}}@enderror</span>
        </div>
        <div class="form-group">
            <label>Last Name</label>
            <input type="text" name="lname" value="{{old('lname')}}"/>
            <span style="color:red;">@error('lname'){{$message}}@enderror</span>
        </div>
        <div class="form-group">
```

```

        <label>Email</label>
        <input type="email" name="email" value="{{old('email')}}"/>
        <span style="color:red;">@error('email'){{$message}}@enderror</span>
    </div>
    <div class="form-group">
        <label>Password</label>
        <input type="password" name="password" value="{{old('password')}}"/>
        <span style="color:red;">@error('password'){{$message}}@enderror</span>
    </div>
    <div class="form-group">
        <label>Confirm Password</label>
        <input type="password" name="confpassword" value="{{old('confpassword')}}"/>
        <span style="color:red;">@error('confpassword'){{$message}}@enderror</span>
    </div>
    <div class="form-group">
        <label>gender</label>
        <input type="text" name="gender" value="{{old('gender')}}"/>
        <span style="color:red;">@error('gender'){{$message}}@enderror</span>
    </div>
    <div class="form-group">
        <label>Address</label>
        <textarea name="address" cols="30" rows="10" >{{old('address')}}</textarea>
        <span style="color:red;">@error('address'){{$message}}@enderror</span>
    </div>
    <div class="form-group">
        <label>Class</label>
        <select name="class">
            <option value="" selected disabled>Select Class</option>
            @foreach($data as $student)
                <option value="{{ $student->cid }}" {{ old('class') == $student->cid ?
'selected' : '' }}>{{ $student->class }}</option>
            @endforeach
        </select>
        <span style="color:red;">@error('class'){{$message}}@enderror</span>
    </div>
    <div class="form-group">
        <label>Phone</label>
        <input type="number" name="phone" value="{{old('phone')}}"/>
        <span style="color:red;">@error('phone'){{$message}}@enderror</span>
    </div>
    <input class="submit" type="submit" value="Save" />
</form>
</div>
</div>
</body>
</html>

```





```

        <td> <a href={{route('deleteStudent',$student->id)}} onclick="return
confirm('Are you sure ?')">Delete</a></td>
    </tr>
    @endforeach

</tbody>
</table>
</div>
</div>
</body>
</html>

```

### update.blade.php –

```

@include('header')
<div id="main-content">
    <h2>Update Record</h2>
    <form class="post-form" action="{{route('updateStudent',$data->id)}}" method="post">
        @csrf
        <div class="form-group">
            <label>First Name</label>
            <input type="text" name="fname" value="{{ $data->fname }}" />
            <span style="color:red;">@error('fname'){{ $message }}@enderror</span>
        </div>
        <div class="form-group">
            <label>Last Name</label>
            <input type="text" name="lname" value="{{ $data->lname }}" />
            <span style="color:red;">@error('lname'){{ $message }}@enderror</span>
        </div>
        <div class="form-group">
            <label>Email</label>
            <input type="email" name="email" value="{{ $data->email }}" />
            <span style="color:red;">@error('email'){{ $message }}@enderror</span>
        </div>
        <div class="form-group">
            <label>Password</label>
            <input type="password" name="password" value="{{ $data->password }}" />
            <span style="color:red;">@error('password'){{ $message }}@enderror</span>
        </div>
        <div class="form-group">
            <label>Confirm Password</label>
            <input type="password" name="confpassword" value="{{ $data->confpassword }}" />
            <span style="color:red;">@error('confpassword'){{ $message }}@enderror</span>
        </div>
        <div class="form-group">
            <label>gender</label>
            <input type="text" name="gender" value="{{ $data->gender }}" />
            <span style="color:red;">@error('gender'){{ $message }}@enderror</span>
        </div>
    </form>
</div>

```

```

<div class="form-group">
  <label>Address</label>
  <textarea name="address" cols="30" rows="10">{{$data->address}}</textarea>
  <span style="color:red;">@error('address'){{$message}}@enderror</span>
</div>
<div class="form-group">
  <label>Class</label>
  <select name="class">
    <option value="" selected disabled>Select Class</option>
    @foreach($data1 as $student)
      <option value="{{$student->cid}}" @if($data->class == $student->cid)
selected @endif>{{$student->class}}</option>
    @endforeach
  </select>
  <span style="color:red;">@error('class'){{$message}}@enderror</span>
</div>
<div class="form-group">
  <label>Phone</label>
  <input type="number" name="phone" value="{{$data->phone}}"/>
  <span style="color:red;">@error('phone'){{$message}}@enderror</span>
</div>
<input class="submit" type="submit" value="Update" />
</form>
</div>
</div>
</body>
</html>

```

[View page](#)

```

@include('header')
<div id="main-content" align='center'>
  <h2>Single Record</h2>
  <table cellpadding="7px" style="width:50%; text-align:center;">
    <tbody>

      <tr>
        <th>Id :</th>
        <td>{{$student->id}}</td>
      </tr>
      <tr>
        <th>First Name :</th>
        <td>{{$student->fname}}</td>
      </tr>
      <tr>
        <th>Last Name :</th>
        <td>{{$student->lname}}</td>
      </tr>
      <tr>
        <th>Password :</th>
        <td>{{$student->password}}</td>
      </tr>
    </tbody>
  </table>

```

```
</tr>
<tr>
  <th>Conf Password :</th>
  <td>{{ $student->confpassword }}</td>
</tr>
<tr>
  <th>Email :</th>
  <td>{{ $student->email }}</td>
</tr>
<tr>
  <th>Class :</th>
  <td>{{ $student->class }}</td>
</tr>
<tr>
  <th>Gender :</th>
  <td>{{ $student->gender }}</td>
</tr>
<tr>
  <th>Phone :</th>
  <td>{{ $student->phone }}</td>
</tr>
<tr>
  <th>Address :</th>
  <td>{{ $student->address }}</td>
</tr>
</tbody>
</table>
</div>
</div>
</body>
</html>
```

## Frontend –

### Index

The screenshot shows a web browser window with the URL `127.0.0.1:8000`. The page has a green header with the text "CRUD" and a navigation bar with "HOME" and "ADD" links. Below the header, there is a section titled "All Records" containing a table with the following data:

ID	FIRST NAME	LAST NAME	PASSWORD	CONF PASSWORD	EMAIL	CLASS	GENDER	PHONE	ADDRESS	VIEW	EDIT	DELETE
123456789	vishal	maurya	vk000000	vk000000	vm12@gmail.com	BSC	male	9511081531	nldmnikmasd,am,dmsa,m	<a href="#">VIEW</a>	<a href="#">EDIT</a>	<a href="#">DELETE</a>
133937082	Vishal	maurya	vm00000000	vm00000000	alul@123gmail.com	B.TECH	Male	9511081531	Police line , ramaipatti mirzapur	<a href="#">VIEW</a>	<a href="#">EDIT</a>	<a href="#">DELETE</a>

The browser's taskbar at the bottom shows the Windows logo, a search bar, and several application icons. The system clock indicates 04:23 AM on 24-02-2024.

### Add

The screenshot shows the "Add" page of the CRUD application. The browser address bar displays `127.0.0.1:8000/add`. The page features a green header with "CRUD" and a navigation bar with "HOME" and "ADD" links. The main content area is titled "Add New Record" and contains a form with the following fields:

- First Name
- Last Name
- Email
- Password
- Confirm Password
- gender
- Address
- Class (dropdown menu with "Select Class" selected)
- Phone

A "SAVE" button is located at the bottom of the form. The browser's taskbar at the bottom shows the Windows logo, a search bar, and several application icons. The system clock indicates 04:31 AM on 24-02-2024.

## Update

Browser tabs: (16) Best of / localhost / 127.0.0.1:8000 / CRUD / how to work old / CRUD / 0.5 Kbps / 0.4 Kbps / CRUD

Address bar: 127.0.0.1:8000/updatePage/133937082

Browser bookmarks: Gmail, YouTube, WordPress Themes..., Inventory Managem..., cleaning live website, Government polyte..., localhost/school-m..., Users, पापधन सूची हिंदी में |..., All Bookmarks

### CRUD

HOME ADD

#### Update Record

First Name	<input type="text" value="Vishal"/>
Last Name	<input type="text" value="maurya"/>
Email	<input type="text" value="alul@123gmail.com"/>
Password	<input type="password" value="*****"/>
Confirm Password	<input type="password" value="*****"/>
gender	<input type="text" value="Male"/>
Address	<div>Police line , ranaipatti mirzapur</div>
Class	<input type="text" value="B.TECH"/>
Phone	<input type="text" value="9511081531"/>
<input type="button" value="UPDATE"/>	

Windows taskbar: Type here to search, Taskbar icons (File Explorer, Edge, Chrome, VS Code, etc.), System tray (Network, Volume, Date/Time: 04:31 AM, 24-02-2024, Language: ENG)