

Laravel

Database

Region(1)

```
public function up(): void
{
    Schema::create('regions', function (Blueprint $table) {
        $table->id();
        $table->string("name");
        $table->timestamps();
    });
}
```

Costume(M)

```
public function up(): void
{
    Schema::create('costumes', function (Blueprint $table) {
        $table->id();
        $table->string("name");
        $table->string("job");
        $table->string("img");
        $table->decimal("price", 8, 2);
        $table->unsignedBigInteger("region_id");
        $table->timestamps();

        $table->foreign("region_id")->references("id")->on("regions")->onUpdate("cascade")->onDelete("cascade");
    });
}
```

Model

Region(1)

```
class Region extends Model
{
  use HasFactory;

  protected $fillable = ["name"];

  public function costumes(){
    return $this->hasMany(Costume::class);
  }
}
```

Costume(M)

```
class Costume extends Model
{
  use HasFactory;

  protected $fillable = ["name", "job", "img", "price", "
    region_id"];

  public function region(){
    return $this->belongsTo(Region::class);
  }
}
```

Route

```
Route::get('/', function () {
  return view('welcome');
});

Route::resource("regions", RegionController::class);

Route::resource("costumes", CostumeController::class);

Route::post("costumes/Arlecchino", [CostumeController::class
  , "Arlecchino"]);
Route::post("costumes/Pulcinella", [CostumeController::class
  , "Pulcinella"]);
```

View

Welcome.blade.php

```
<html>
  <body>
    <h2>Welcome</h2>
    <a href="{{route('regions.index')}}"><button>Regions
      </button></a>
    <a href="{{route('costumes.index')}}"><button>
      Costumes</button></a>
  </body>
</html>
```

Region(1)

Index.blade.php

```
<html>
  <body>
    <h2>Index</h2>

    @foreach($regions as $r)
    <form>
      <p>Name: {{$r->name}}</p>
      <button formation="{{route('regions.show', $r)
        }}">Show more</button>
      <button formation="{{route('regions.edit', $r)
        }}">Edit now</button>
    </form>
    @endforeach

    <br>

    <form action="{{route('regions.create')}}" method="
      GET">
      <button>Create new</button>
    </form>

    <br><a href="/"><button>Back to Welcome</button></a>
  </body>
</html>
```

Create.blade.php

```
<html>
<body>
    <h2>Create</h2>

    <form action="{{route('regions.store')}}" method="
        POST">
        @csrf
        Name: <input name="name" required>
        <button>Create</button>
    </form>

    <br><a href="{{route('regions.index')}}"><button>
        Back To Home</button></a>
</body>
</html>
```

Show.blade.php

```
<html>
<body>
    <h2>Show</h2>

    <p>ID: {{$r->id}}</p>
    <p>Name: {{$r->name}}</p>
    <p>Costumes:</p>
    @foreach($r->costumes as $c)
    <ul>
        <li>
            Name: {{$c->name}} - Image: 

        </li>
    </ul>
    @endforeach

    <br>

    <form action="{{route('regions.destroy', $r)}}"
        method="POST">
        @csrf
        @method("DELETE")
        <button>Delete</button>
    </form>

    <br><a href="{{route('regions.index')}}"><button>
        Back To Home</button></a>
</body>
</html>
```

Edit.blade.php

```
<html>
  <body>
    <h2>Edit</h2>

    <form action="{{route('regions.update', $r)}}"
      method="POST">
      @csrf
      @method("PUT")
      Name: <input name="name" value="{{ $r->name }}">
      <button>Edit</button>
    </form>

    <br><a href="{{route('regions.index')}}"><button>
      Back To Home</button></a>
  </body>
</html>
```

Costume(M)

Index.blade.php

```
<html>
  <body>
    <h2>Index</h2>

    @foreach($costumes as $c)
      <form>
        <p>Name: {{ $c->name }}</p>
        <button formation="{{ route('costumes.show', $c)
        }}">Show more</button>
        <button formation="{{ route('costumes.edit', $c)
        }}">Edit now</button>
      </form>
    @endforeach

    <br>

    <h3>Dimezza tutti i prezzi</h3>
    <form action="costumes/Arlecchino" method="POST">
      @csrf
      <button>Arlecchino</button>
    </form>

    <h3>Raddoppia tutti i prezzi</h3>
    <form action="costumes/Pulcinella" method="POST">
      @csrf
      <button>Pulcinella</button>
    </form>

    <br>

    <form action="{{ route('costumes.create') }}" method="
    GET">
      <button>Create new</button>
    </form>

    <br><a href="/"><button>Back to Welcome</button></a>
  </body>
</html>
```

Create.blade.php

```
<html>
<body>
    <h2>Create</h2>

    <form action="{{route('costumes.store')}}" method="
        POST">
        @csrf
        Name: <input name="name" required>
        Job: <input name="job" required>
        Img: <input name="img" required>
        Price: <input name="price" required>
        Region_id:
        <select name="region_id" required>
            @foreach($regions as $r)
                <option value="{{ $r->id }}" {{ $r->name }}</
                    option>
            @endforeach
        </select>
        <button>Create</button>
    </form>

    <br><a href="{{route('costumes.index')}}"><button>
        Back To Home</button></a>
</body>
</html>
```

Show.blade.php

```
<html>
<body>
    <h2>Show</h2>

    <p>ID: {{ $c->id }}</p>
    <p>Name: {{ $c->name }}</p>
    <p>Job: {{ $c->job }}</p>
    <p>Img: </p>
    <p>Price: {{ $c->price }}</p>
    <p>Region_id: {{ $c->region_id }}</p>

    <br>

    <form action="{{route('costumes.destroy', $c)}}"
        method="POST">
        @csrf
        @method("DELETE")
        <button>Delete</button>
    </form>
```

```

        <br><a href="{{route('costumes.index')}}"><button>
            Back To Home</button></a>
    </body>
</html>

```

Edit.blade.php

```

<html>
<body>
    <h2>Edit</h2>

    <form action="{{route('costumes.update', $c)}}"
        method="POST">
        @csrf
        @method("PUT")
        Name: <input name="name" value="{{ $c->name }}">
        Job: <input name="job" value="{{ $c->job }}">
        Img: <input name="img" value="{{ $c->img }}">
        Price: <input name="price" value="{{ $c->price }}"
        >
        Region_id:
        <select name="region_id">
            @foreach($regions as $r)
                <option value="{{ $r->id }}">{{ $r->name }}</
                    option>
            @endforeach
        </select>
        <button>Edit</button>
    </form>

    <br><a href="{{route('costumes.index')}}"><button>
        Back To Home</button></a>
    </body>
</html>

```


Controller

Region(1)

```
class RegionController extends Controller
{
  public function index()
  {
    return view("regions.index", ["regions" => Region::
      all()]);
  }

  public function create()
  {
    return view("regions.create");
  }

  public function store(Request $request)
  {
    Region::create($request->all());
    return redirect()->route("regions.index");
  }

  public function show(Region $region)
  {
    return view("regions.show", ["r" => $region]);
  }

  public function edit(Region $region)
  {
    return view("regions.edit", ["r" => $region]);
  }

  public function update(Request $request, Region $region)
  {
    $region->update($request->all());
    return redirect()->route("regions.index");
  }

  public function destroy(Region $region)
  {
    $region->delete();
    return redirect()->route("regions.index");
  }
}
```

Costume(M)

```
class CostumeController extends Controller
{
  public function index()
  {
    return view("costumes.index", ["costumes" => Costume
      ::all()]);
  }

  public function create()
  {
    return view("costumes.create", ["regions" => Region
      ::all()]);
  }

  public function store(Request $request)
  {
    Costume::create($request->all());
    return redirect()->route("costumes.index");
  }

  public function show(costume $costume)
  {
    return view("costumes.show", ["c" => $costume]);
  }

  public function edit(costume $costume)
  {
    return view("costumes.edit", ["c" => $costume, "
      regions" => Region::all()]);
  }

  public function update(Request $request, costume
    $costume)
  {
    $costume->update($request->all());
    return redirect()->route("costumes.index");
  }

  public function destroy(costume $costume)
  {
    $costume->delete();
    return redirect()->route("costumes.index");
  }
}
```

```

public function Arlecchino()
{
    $costumes = Costume::all();
    foreach($costumes as $c)
    {
        $c->price /= 2;
        $c->save();
    }
    return redirect()->route("costumes.index");
}

public function Pulcinella()
{
    $costumes = Costume::all();
    foreach($costumes as $c)
    {
        $c->price *= 2;
        $c->save();
    }
    return redirect()->route("costumes.index");
}

/* UTILITIES

public function filter()
{
    $filtered = River::where('length', '>=', 3000)->get
        ();
    return view("rivers.index", ["rivers" => $filtered])
        ;
}
*/
}

```