



20 Laravel Eloquent Tips and Tricks



OCTOBER 27, 2018 / **POVILASKOROP**

Eloquent ORM seems like a simple mechanism, but under the hood, there's a lot of semi-hidden functions and less-known ways to achieve more with it. In this article, I will show you a few tricks.

1. Increments and Decrements

Instead of this:

```
$article = Article::find($article_id);  
$article->read_count++;
```



You can do this:

```
$article = Article::find($article_id);  
$article->increment('read_count');
```

Also these will work:

```
Article::find($article_id)->increment('read_count');  
Article::find($article_id)->increment('read_count', 10); // +10  
Product::find($produce_id)->decrement('stock'); // -1
```

2. XorY methods

Eloquent has quite a few functions that combine two methods, like “please do X, otherwise do Y”.

Example 1 – findOrFail():

Instead of:

```
$user = User::find($id);  
if (!$user) { abort (404); }
```

Do this:



Example 2 – firstOrCreate():

Instead of:

```
$user = User::where('email', $email)->first();  
if (!$user) {  
    User::create([  
        'email' => $email  
    ]);  
}
```

Do just this:

```
$user = User::firstOrCreate(['email' => $email]);
```

3. Model boot() method

There is a magical place called `boot()` in an Eloquent model where you can override default behavior:

```
class User extends Model  
{  
    public static function boot()  
    {  
        parent::boot();  
        static::updating(function($model)  
        {  
            // do some logging  
        }  
    }  
}
```

Probably one of the most popular examples is setting some field value at the moment of creating the model object. Let's say you want to generate **UUID field** at that moment.

```
public static function boot()
{
    parent::boot();
    self::creating(function ($model) {
        $model->uuid = (string)Uuid::generate();
    });
}
```

4. Relationship with conditions and ordering

This is a typical way to define relationship:

```
public function users() {
    return $this->hasMany('App\User');
}
```

But did you know that at this point we can already add where or orderBy?

For example, if you want a specific relationship for some type of users, also ordered by email, you can do this:

```
}
```

5. Model properties: timestamps, appends etc.

There are a few “parameters” of an Eloquent model, in the form of properties of that class. The most popular ones are probably these:

```
class User extends Model {  
    protected $table = 'users';  
    protected $fillable = ['email', 'password']; // which fields  
    protected $dates = ['created_at', 'deleted_at']; // which fields  
    protected $appends = ['field1', 'field2']; // additional values  
}
```

But wait, there’s more:

```
protected $primaryKey = 'uuid'; // it doesn't have to be "id"  
public $incrementing = false; // and it doesn't even have to be  
protected $perPage = 25; // Yes, you can override pagination counts  
const CREATED_AT = 'created_at';  
const UPDATED_AT = 'updated_at'; // Yes, even those names can be  
public $timestamps = false; // or even not used at all
```

And there’s even more, I’ve listed the most interesting ones, for more please check out the code of default [abstract Model class](#) and check out all the traits used.

6. Find multiple entries



```
$user = User::find(1);
```

I'm quite surprised how few people know about that it can accept multiple IDs as an array:

```
$users = User::find([1,2,3]);
```

7. WhereX

There's an elegant way to turn this:

```
$users = User::where('approved', 1)->get();
```

Into this:

```
$users = User::whereApproved(1)->get();
```

Yes, you can change the name of any field and append it as a suffix to “where” and it will work by magic.

Also, there are some pre-defined methods in Eloquent, related to date/time:



```
User::whereMonth('created_at', date('m'));  
User::whereYear('created_at', date('Y'));
```

8. Order by relationship

A little more complicated “trick”. What if you have forum topics but want to order them by latest **post**? Pretty common requirement in forums with last updated topics on the top, right?

First, describe a separate relationship for the **latest post** on the topic:

```
public function latestPost()  
{  
    return $this->hasOne(\App\Post::class)->latest();  
}
```

And then, in our controller, we can do this “magic”:

```
$users = Topic::with('latestPost')->get()->sortByDesc('latestPo:
```

9. Eloquent::when() – no more if-else’s

Many of us write conditional queries with “if-else”, something like this:



```
}  
if (request('filter_by') == 'date') {  
    $query->orderBy('created_at', request('ordering_rule', 'desc'  
}  
}
```

But there's a better way – to use when():

```
$query = Author::query();  
$query->when(request('filter_by') == 'likes', function ($q) {  
    return $q->where('likes', '>', request('likes_amount', 0));  
});  
$query->when(request('filter_by') == 'date', function ($q) {  
    return $q->orderBy('created_at', request('ordering_rule', 'c'  
});
```

It may not feel shorter or more elegant, but the most powerful is passing of the parameters:

```
$query = User::query();  
$query->when(request('role', false), function ($q, $role) {  
    return $q->where('role_id', $role);  
});  
$authors = $query->get();
```

10. BelongsTo Default Models

Let's say you have Post belonging to Author and then Blade code:

But what if the author is deleted, or isn't set for some reason? You will get an error, something like "property of non-object".

Of course, you can prevent it like this:

```
{{ $post->author->name ?? '' }}
```

But you can do it on Eloquent relationship level:

```
public function author()  
{  
    return $this->belongsTo('App\Author')->withDefault();  
}
```

In this example, the `author()` relation will return an empty `App\Author` model if no author is attached to the post.

Furthermore, we can assign default property values to that default model.

```
public function author()  
{  
    return $this->belongsTo('App\Author')->withDefault([  
        'name' => 'Guest Author'  
    ]);  
}
```

Imagine you have this:

```
function getFullNameAttribute()  
{  
    return $this->attributes['first_name'] . ' ' . $this->attribu  
}
```

Now, you want to order by that `full_name`? This won't work:

```
$clients = Client::orderBy('full_name')->get(); // doesn't work
```

The solution is quite simple. We need to order the results **after** we get them.

```
$clients = Client::get()->sortBy('full_name'); // works!
```

Notice that the function name is different – it's not **orderBy**, it's **sortBy**.

12. Default ordering in global scope

What if you want to have `User::all()` always be ordered by name field? You can assign a global scope. Let's go back to the `boot()` method, which we mentioned already above.



```
parent::boot();

// Order by name ASC
static::addGlobalScope('order', function (Builder $builder)
    $builder->orderBy('name', 'asc');
});
}
```

Read more about [Query Scopes](#) here.

13. Raw query methods

Sometimes we need to add raw queries to our Eloquent statements. Luckily, there are functions for that.

```
// whereRaw
$orders = DB::table('orders')
    ->whereRaw('price > IF(state = "TX", ?, 100)', [200])
    ->get();

// havingRaw
Product::groupBy('category_id')->havingRaw('COUNT(*) > 1')->get();

// orderByRaw
User::where('created_at', '>', '2016-01-01')
    ->orderByRaw('(updated_at - created_at) desc')
    ->get();
```

14. Replicate: make a copy of a row

Short one. Without deep explanations, here's the best way to make a copy of database entry:



```
$newTask->save();
```

15. Chunk() method for big tables

Not exactly Eloquent related, it's more about Collection, but still powerful – to process bigger datasets, you can chunk them into pieces.

Instead of:

```
$users = User::all();  
foreach ($users as $user) {  
    // ...  
}
```

You can do:

```
User::chunk(100, function ($users) {  
    foreach ($users as $user) {  
        // ...  
    }  
});
```

16. Create additional things when creating a model

We all know this Artisan command:

```
php artisan make:model Company
```

related files to the model?

```
php artisan make:model Company -mcr
```

- -m will create a **migration** file
- -c will create a **controller**
- -r will indicate that controller should be **resourceful**

17. Override updated_at when saving

Did you know that `->save()` method can accept parameters? As a result, we can tell it to “ignore” `updated_at` default functionality to be filled with current timestamp. See this:

```
$product = Product::find($id);  
$product->updated_at = '2019-01-01 10:00:00';  
$product->save(['timestamps' => false]);
```

Here we’re overriding default `updated_at` with our pre-defined one.

18. What is the result of an `update()`?

Have you ever wondered what this code actually returns?

```
$result = $products->whereNull('category_id')->update(['category
```



I mean, the update is performed in the database, but what would that `$result` contain?

The answer is **affected rows**. So if you need to check how many rows were affected, you don't need to call anything else – `update()` method will return this number for you.

19. Transform brackets into an Eloquent query

What if you have and-or mix in your SQL query, like this:

```
... WHERE (gender = 'Male' and age >= 18) or (gender = 'Female'
```

How to translate it into Eloquent? This is the **wrong** way:

```
$q->where('gender', 'Male');  
$q->orWhere('age', '>=', 18);  
$q->where('gender', 'Female');  
$q->orWhere('age', '>=', 65);
```

The order will be incorrect. The right way is a little more complicated, using closure functions as sub-queries:

```
$q->where(function ($query) {  
    $query->where('gender', 'Male')  
        ->where('age', '>=', 18);  
})->orWhere(function($query) {  
    $query->where('gender', 'Female')
```



20. orWhere with multiple parameters

Finally, you can pass an array of parameters to `orWhere()`.

“Usual” way:

```
$q->where('a', 1);  
$q->orWhere('b', 2);  
$q->orWhere('c', 3);
```

You can do it like this:

```
$q->where('a', 1);  
$q->orWhere(['b' => 2, 'c' => 3]);
```

If you enjoyed these Eloquent tips, check out my online course [Eloquent: Expert Level](#) and learn about creating relationships, querying data effectively and exploring Eloquent features that you may not know about.

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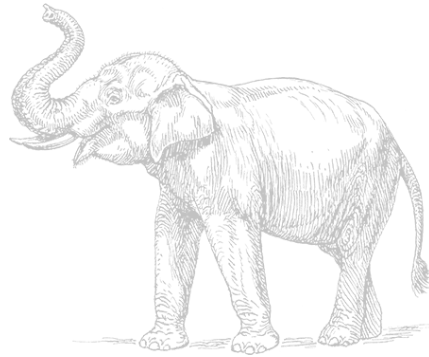
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