# **ATIVIDADE 4.2 LARAVEL**

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Turma: TSI/Tarde

Comando: User::all();

### Resultado:

```
| Space | Spac
```

Comando: Book::find(333);

Comando: Publisher::withCount('books')->take(20)->get();

### Resultado:

Comando: \$mediaAno = Book::avg('published\_year');

Comando: \$somaAno = Book::sum('published\_year');

# Resultado:

Comando: \$anoMaisAntigo = Book::min('published\_year');

Comando: \$anoMaisRecente = Book::max('published\_year');

## Resultado:

Comando: \$categorias = Category::withCount('books')->get();

# Comando 2:

```
foreach ($categorias as $categoria) {
   echo "{$categoria->name}: {$categoria->books_count} livros\n";
}
```

```
$books = Book::all();

foreach ($books as $book) {
    echo "{$book->title} - {$book->author->name}\n";
}
```

```
$books = Book::with('author')->get();

foreach ($books as $book) {
    echo "{$book->title} - {$book->author->name}\n";
}
```

```
// Medindo o tempo para Lazy Loading
$inicioLazy = microtime(true);

$booksLazy = Book::all();
foreach ($booksLazy as $book) {
    echo "{$book->title} - {$book->author->name}\n";
}

$tempoTotalLazy = microtime(true) - $inicioLazy;
echo "Tempo total para Lazy Loading: {$tempoTotalLazy} segundos\n";
```

### Resultado:

#### Comando:

```
// Medindo o tempo para Eager Loading
$inicioEager = microtime(true);

$booksEager = Book::with('author')->get();
foreach ($booksEager as $book) {
    echo "{$book->title} - {$book->author->name}\n";
}

$tempoTotalEager = microtime(true) - $inicioEager;
echo "Tempo total para Eager Loading: {$tempoTotalEager} segundos\n";
```

```
> $tempoTotalEager = microtime(true) - $inicioEager;
= 0.0816490650177
> echo "Tempo total para Eager Loading: {$tempoTotalEager} segundos\n";
Tempo total para Eager Loading: 0.0816490650177 segundos
> |
```

```
$author = Author::create([
    'name' => 'John Doe',
    'birth_date' => '1975-08-15'
]);
```

```
$category = Category::create([
    'name' => 'Fiction'
]);
```

```
$publisher = Publisher::create([
    'name' => 'Best Publisher',
    'address' => '123 Publisher Lane'
]);
```

```
$book = Book::create([
    'title' => 'The Great Adventure',
    'author_id' => $author->id,
    'category_id' => $category->id,
    'publisher_id' => $publisher->id,
    'published_year' => 2024
]);
```

```
echo "Livro: {$book->title}\n";

echo "Autor: {$book->author->name}\n";

echo "Categoria: {$book->category->name}\n";

echo "Editora: {$book->publisher->name}\n";
```