

Working with Relationships



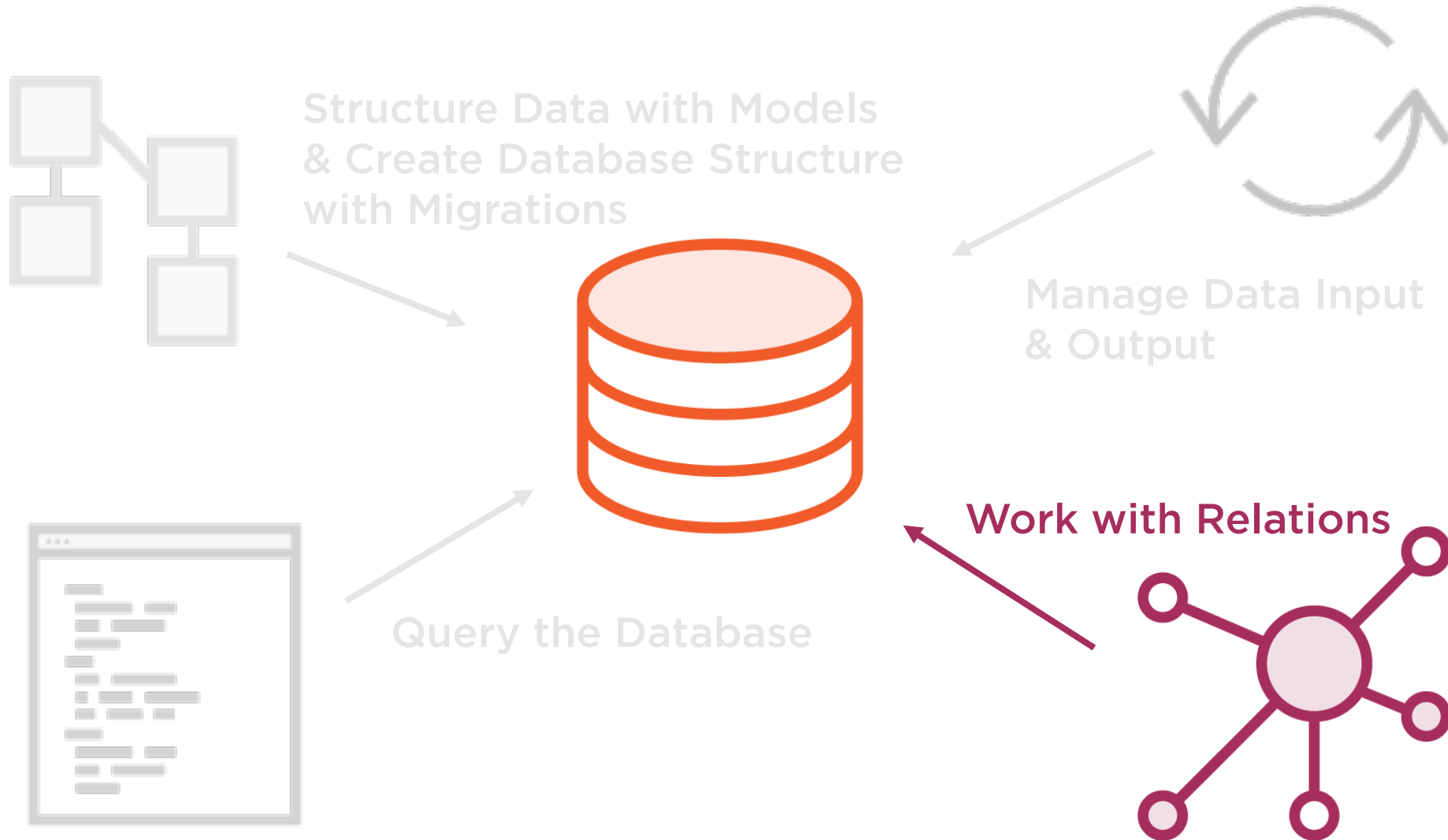
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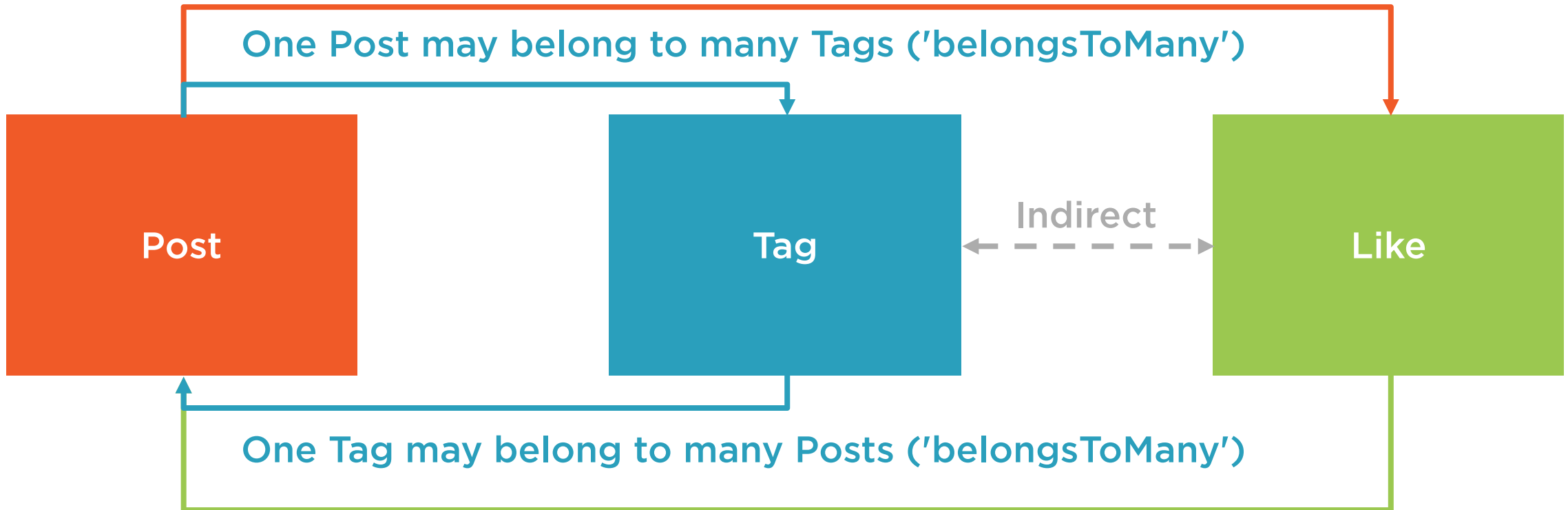
Course Structure



What Are Relationships?

One Post may have many Likes ('hasMany')

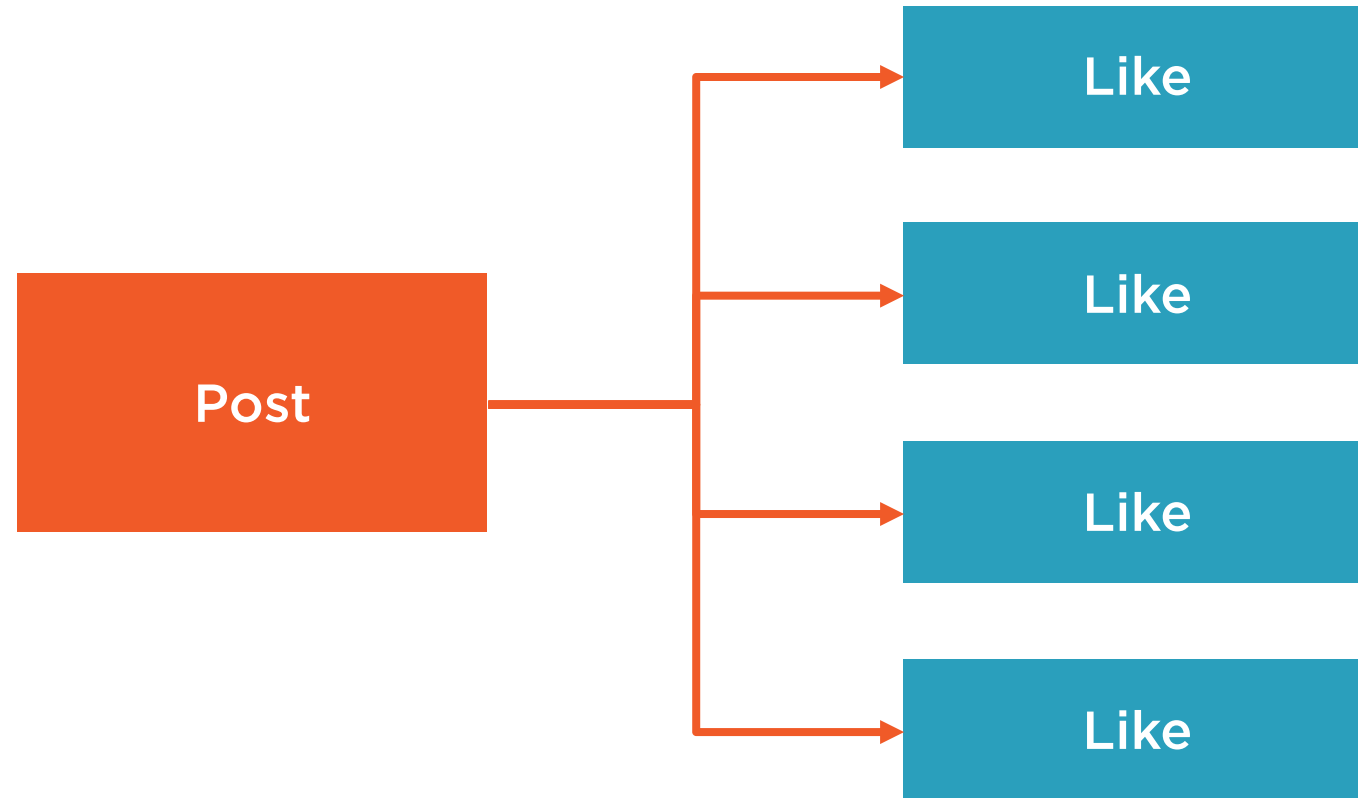
One Post may belong to many Tags ('belongsToMany')



One Like belongs to one Post ('belongsTo')



One-to-Many



One Post may have **many Likes**, but **one Like** will only belong to **one Post**

Defining One-to-Many Relationships

// In Posts Model

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

// In Like Model

```
public function post() {  
    return $this->belongsTo( 'App\Post' );  
}
```



Laravel's Assumptions

Foreign Keys

“snake case”, plural name of the class + 'id'

```
return $this->hasMany( 'App/Like' );
```

...assumes:

'id' in both tables ('posts' and 'likes')

'post_id' field in 'likes'



Querying One-to-Many Relationships

// Fetch Data

```
$likes = Post::find(10)->likes;
```

```
$likes = Post::find(10)->likes()->orderBy(...)->get();
```

// Insert Data

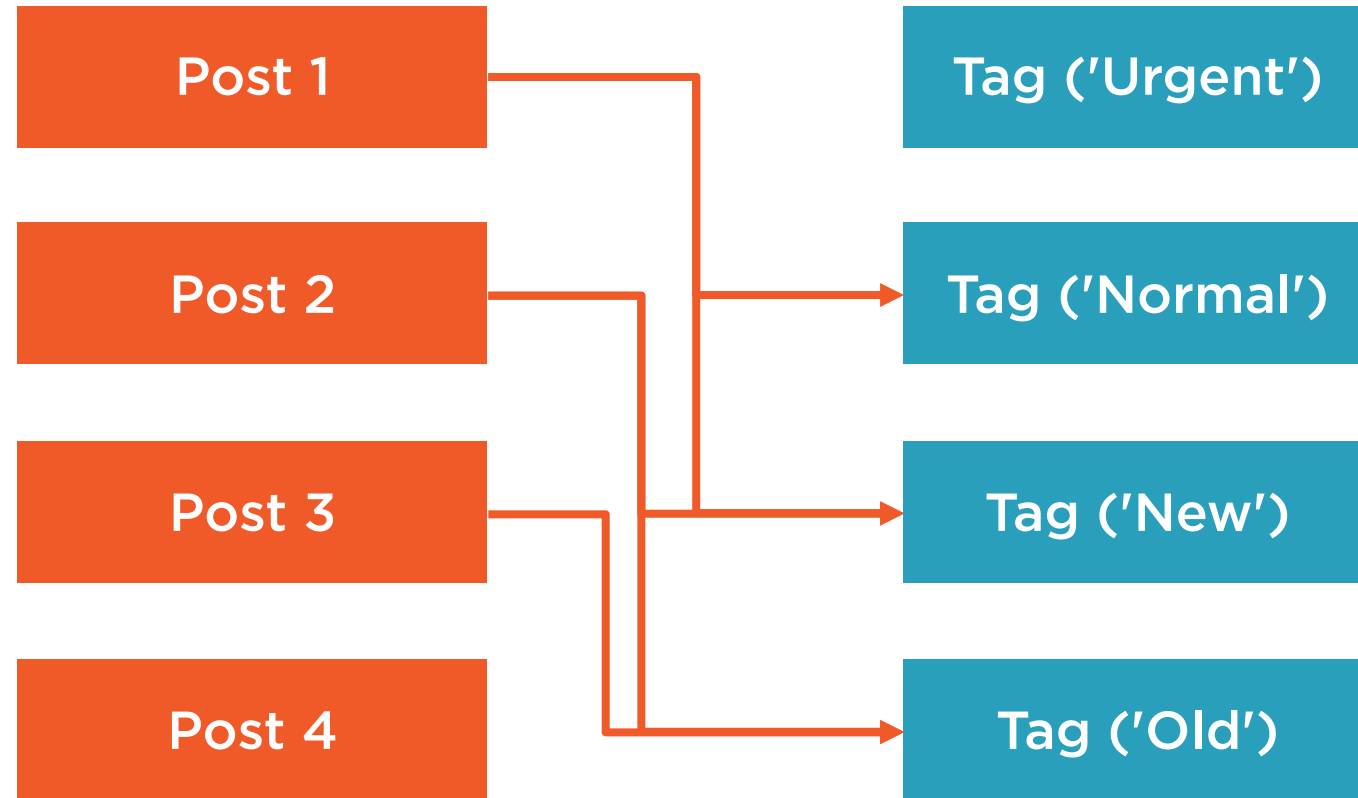
```
$post = Post::find(10);
```

```
$like = new Like();
```

```
$post->likes()->save($like);
```



Many-to-Many



One Post may belong to **many Tags** and **one Tag** may belong to many **Posts**



Defining Many-to-Many Relationships

```
// In Posts Model
```

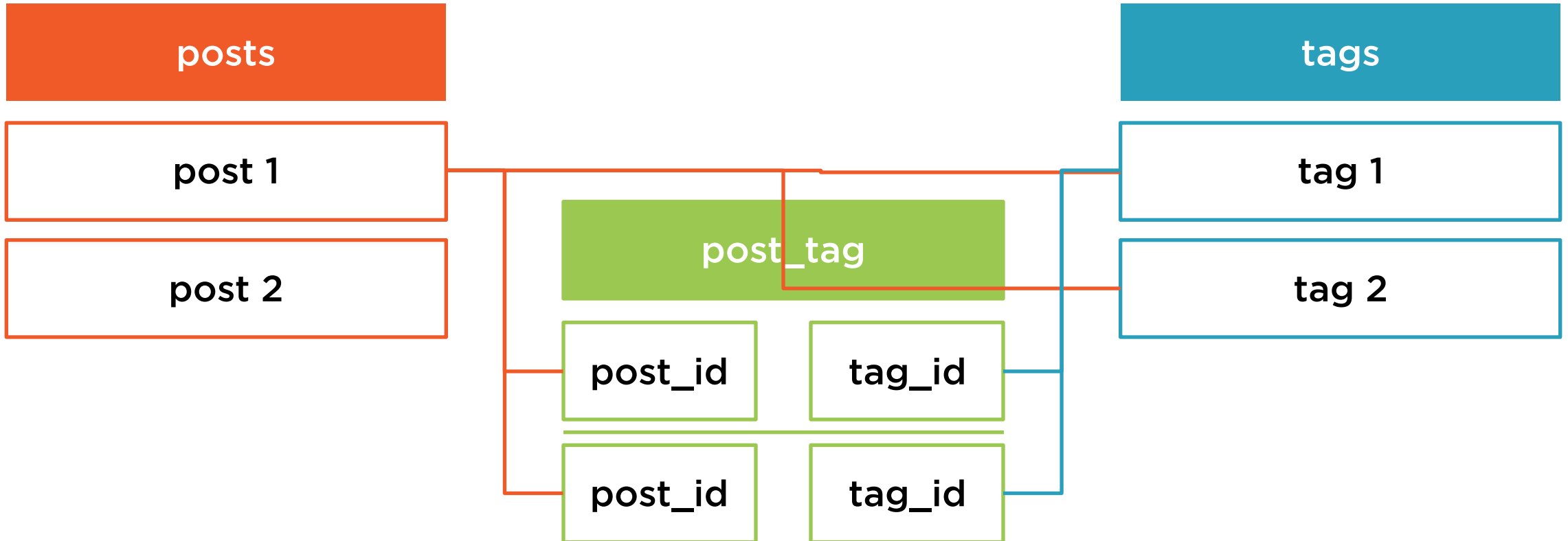
```
public function tags() {  
    return $this->belongsToMany( 'App\Tag' );  
}
```

```
// In Tag Model
```

```
public function posts() {  
    return $this->belongsToMany( 'App\Post' );  
}
```



Pivot Tables



Querying Many-to-Many Relationships

// Fetch Data

```
$tags = Post::find(10)->tags;
```

```
$tags = Post::find(10)->tags()->orderBy(...)->get();
```

// Insert Data

```
$post = Post::find(10);
```

```
$tagId = 1;
```

```
$post->tags()->attach($tagId);
```

// Delete Data

```
$post->tags()->detach($tagId);
```

