

data-quest

# SimpleORMap can be even better

Solving  $n+1$ , refactoring and adding new utilities

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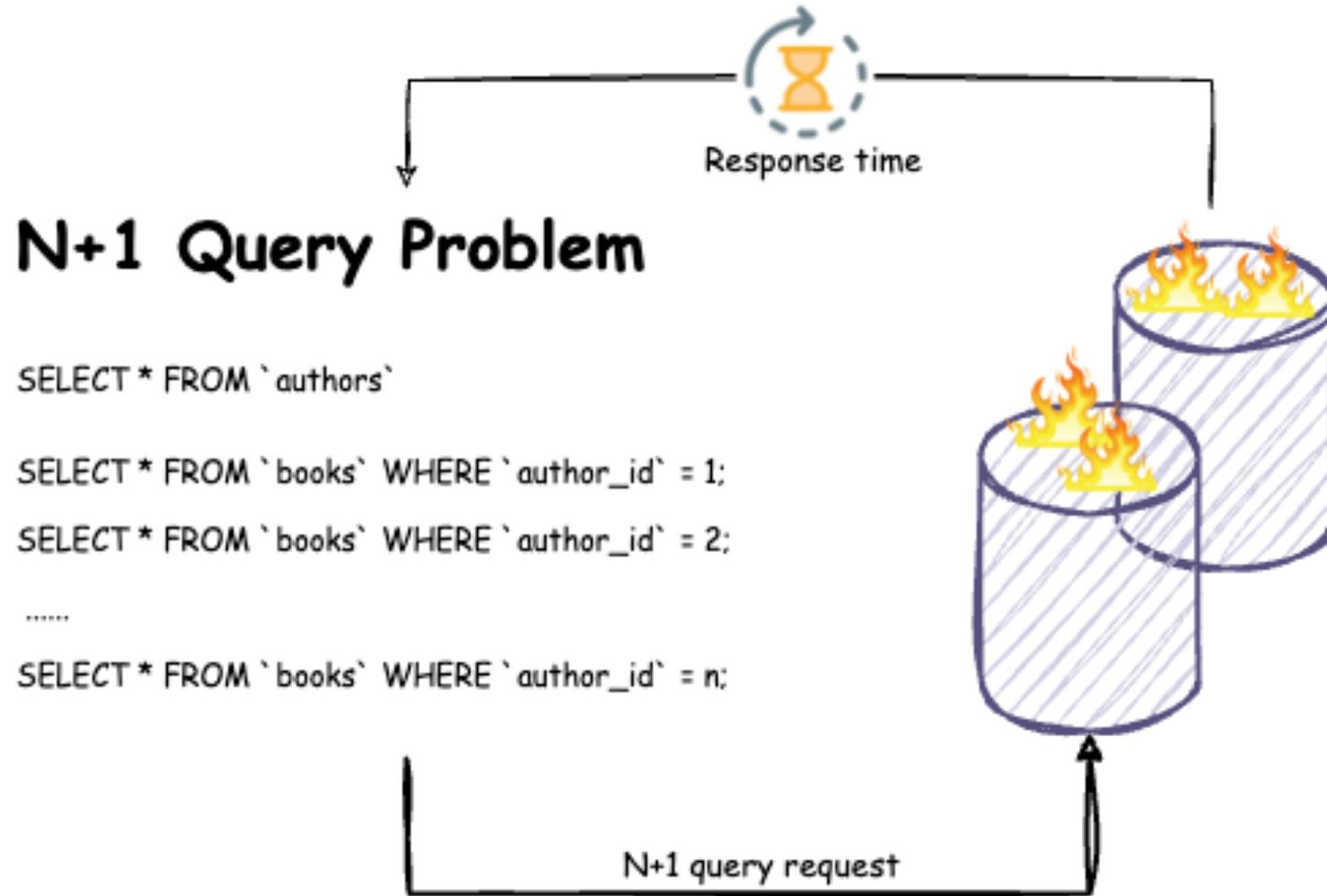
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## Agenda

### SimpleORMap issues

-   $N + 1$  (Eager Loading)
-  Code Design
  -  Low Abstraction/Encapsulation
  -  Single Responsibility Principle

### Demo of New Methods



## How to fix N+1?

```
User :: with( relation: 'courses' ) → all();
```

```
User :: with( [ 'courses', 'memberships' ] ) → all();
```

```
User :: without( relation: 'contactGroups' ) → all();
```

## How to fix N+1?

```
class User extends AuthUserMd5 implements Range, Privacy0
{
    protected array $with = ['courses', 'membership'];
    1 usage
    protected array $without = ['contactGroups'];
```

## Low Abstraction/Encapsulation

🔗 Client code depends on SQL syntax

```
User::findBySQL(  
    sql: "perms = :perms OR vorname LIKE :vorname ORDER BY vorname DESC LIMIT 3",  
    [  
        'perms' => 'admin',  
        'vorname' => '%Test%'  
    ]  
);
```

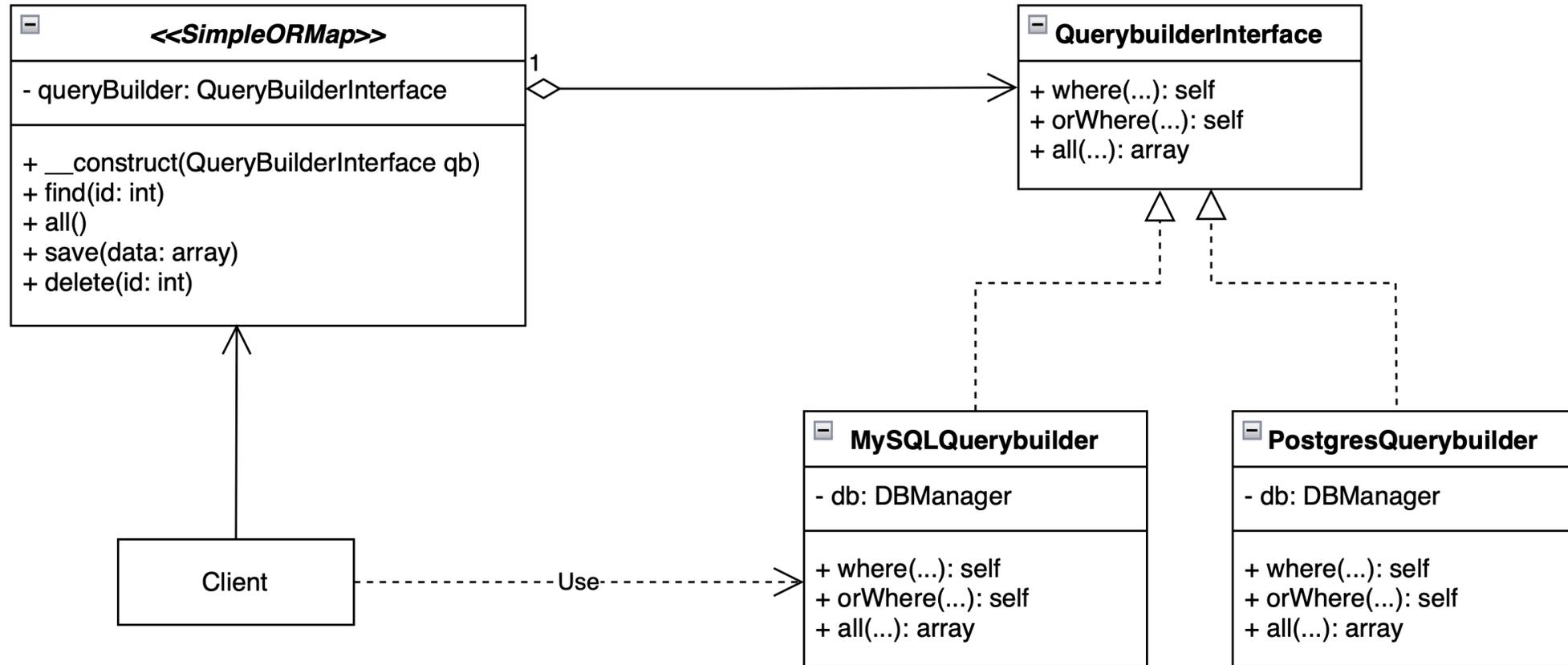
## How to fix?

```
User :: where (column: 'perms', operator: 'admin')  
  →orWhere (column: 'vorname', operator: 'LIKE', value: '%Test%')  
  →orderBy (column: 'vorname', direction: 'DESC')  
  →limit (number: 3)  
  →all();
```

# Single Responsibility Principle (SRP)

“A class should have only one reason to change.”  
— Robert C. Martin

# New Code Design



e.g. User extend SimpleORMap

# Fragen & Diskussion