



ELASTIFY YOUR APP

from SQL to NoSQL in less than one hour!



Tugdual Grall
Technical advocate
Couchbase
@tgrall

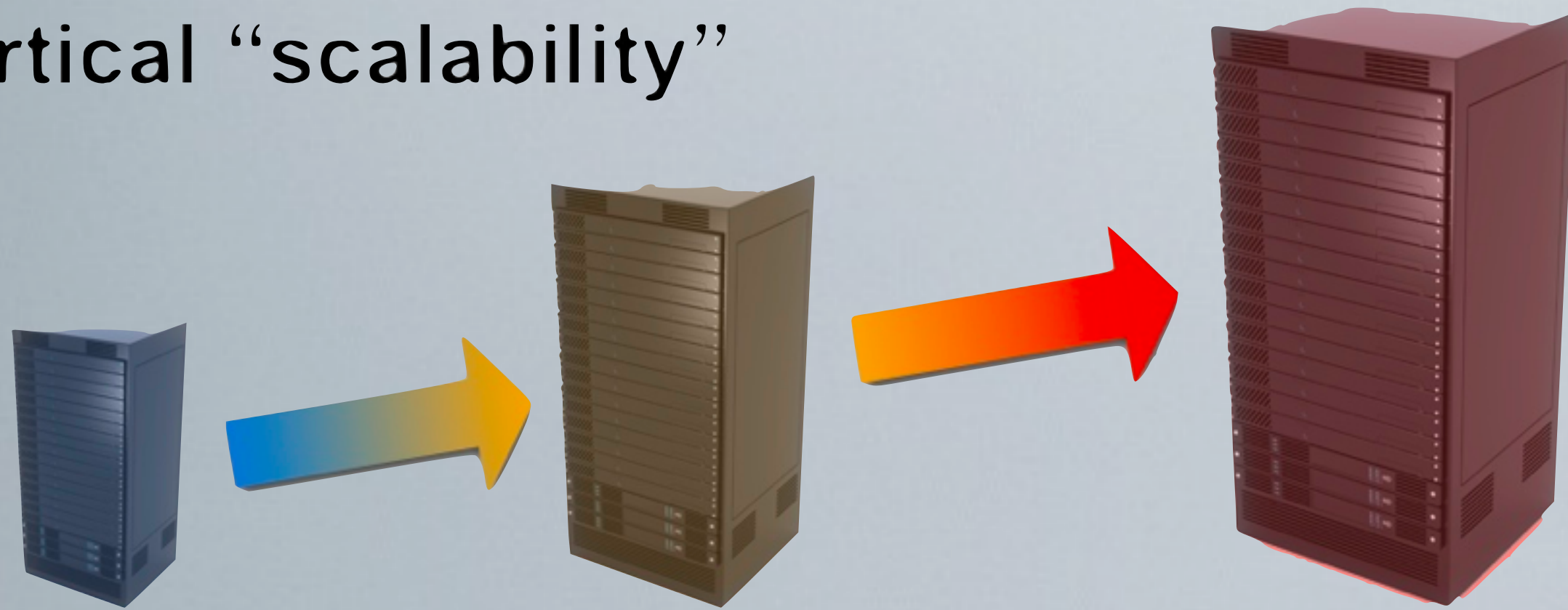
David Pilato
Technical advocate
Elasticsearch
@dadoonet



MOVING?

Why?

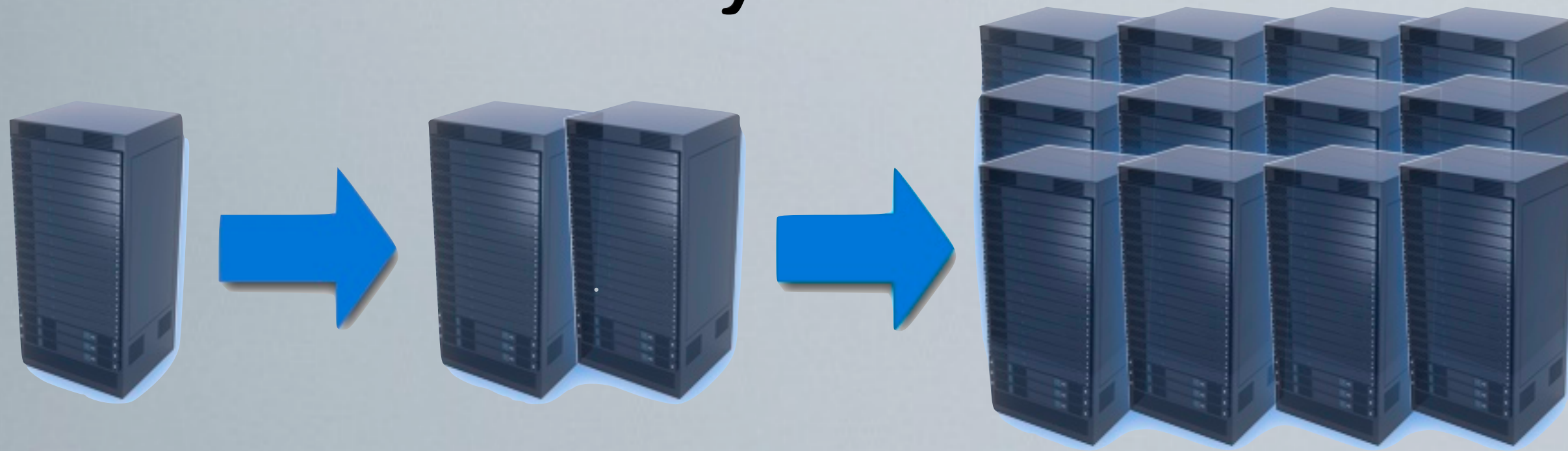
Vertical “scalability”



MOVING?

Why?

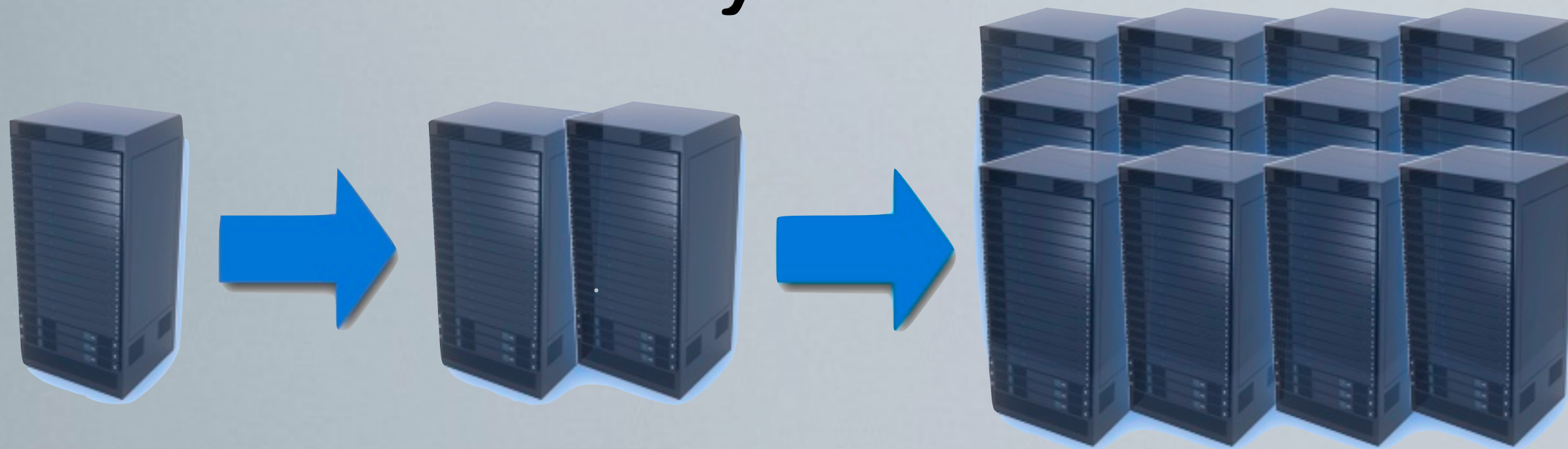
Horizontal scalability



MOVING?

Why?

Horizontal scalability

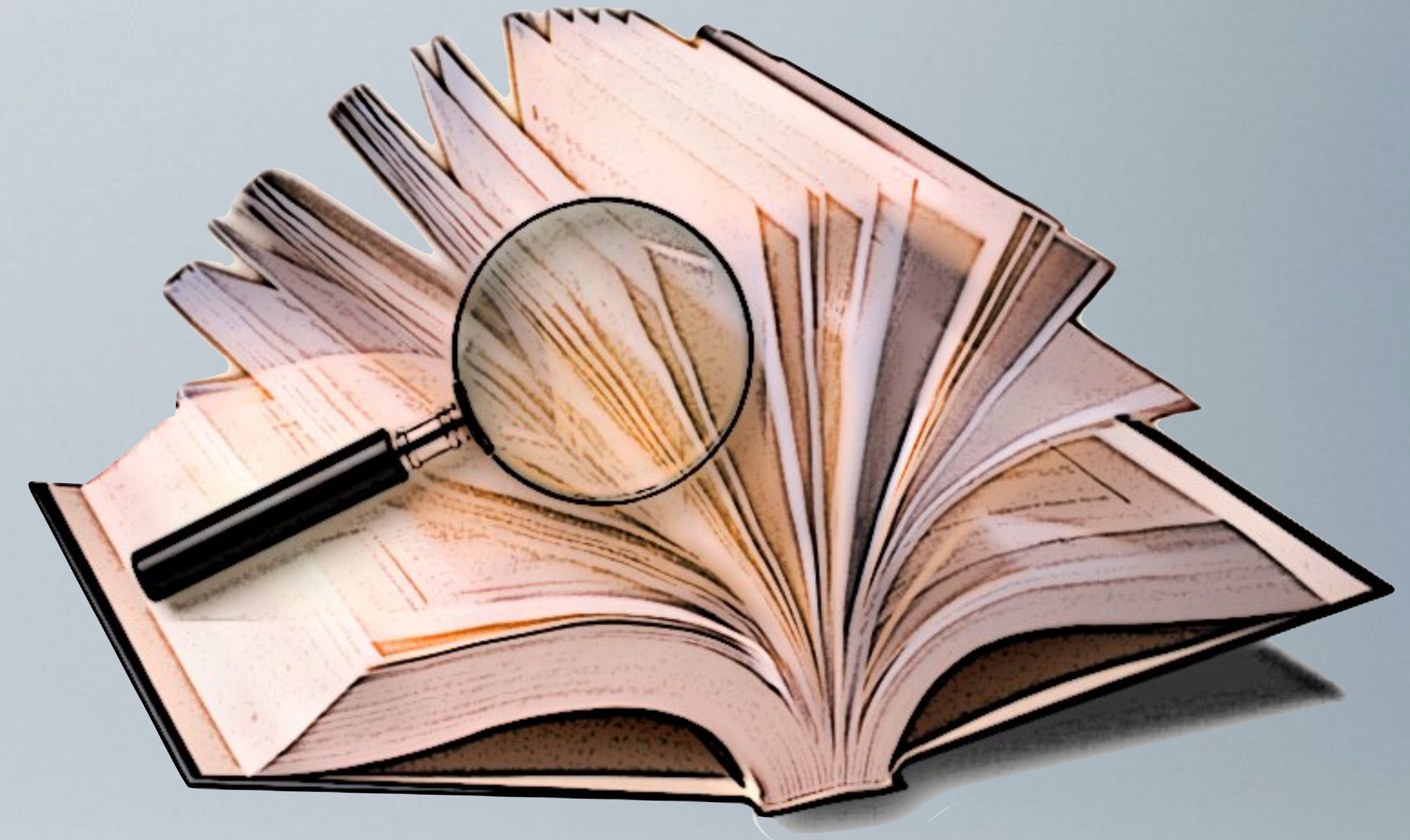
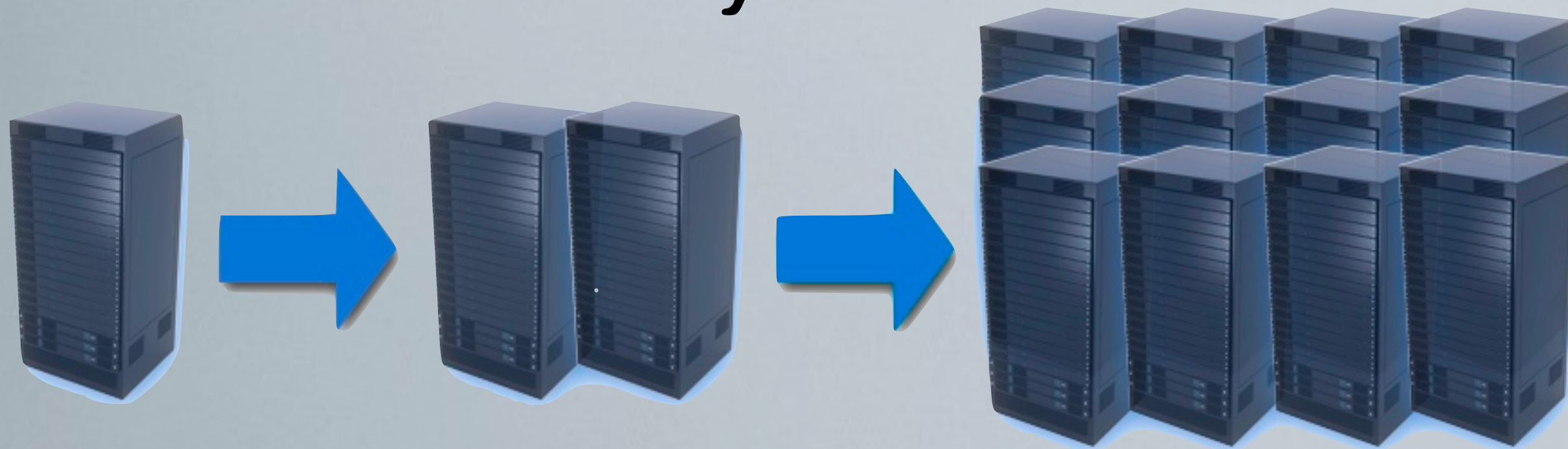


Object in Object Explorer
VIEW [HumanResources]
EmployeeID
Title
FirstName
MiddleName
LastName
Suffix AS [shift]
Name AS [department]
GroupName
StartDate
Enddate
HumanResources].[EmployeeID] e
ContactID
EmployeeID
DepartmentID
ShiftID
= edh.[shiftID];

MOVING?

Why?

Horizontal scalability



MOVING?

Why?

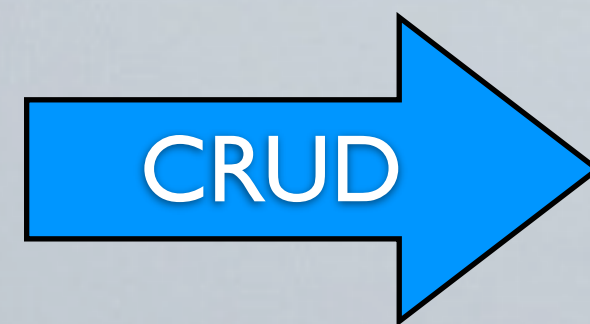
Contacts Home About

Person Information

Name

Number of Views by Category

Cars	
Shoes	
Toys	
Fashion	
Music	
Garden	
Electronics	566
Hifi	
Food	



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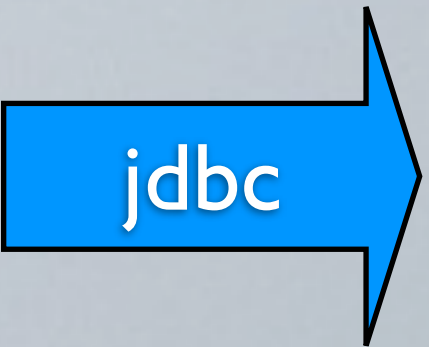
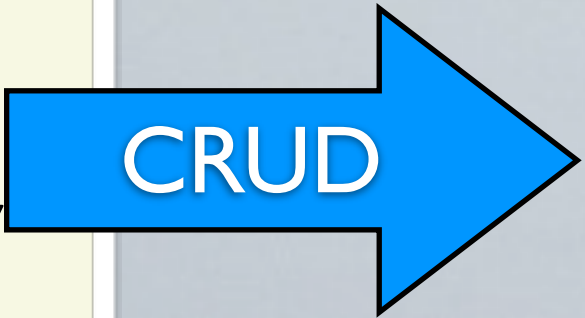
Type something...

Id	Name	Date of Birth	City	Country
1	Joe Smith	1988-03-11 00:00:00.0	Nantes	France
2	John Wilson	1977-08-07 00:00:00.0	Paris	Germany
3	Andre Fiona	2002-08-01 00:00:00.0	Cergy	
4	Arnaud Chris	2008-07-25 00:00:00.0	Nantes	
5	Gregoire Lyam	1963-06-18 00:00:00.0	Nantes	England
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9	Sasha Eloane	1986-05-01 00:00:00.0	Nantes	Germany
10	Metie Ruhan	2004-08-01 00:00:00.0	Paris	Germany



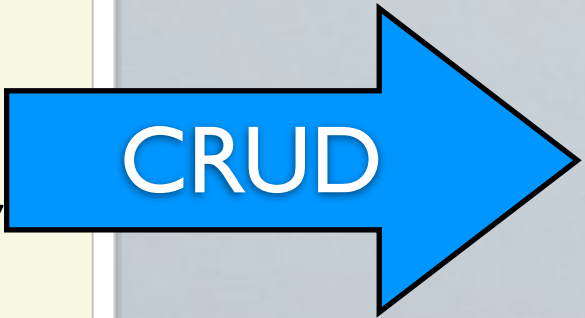
From **SQL** ...

```
{
  "id":10,
  "name":"Ranya Fanny",
  "dateOfBirth":"1970-06-28",
  "meta":{
    "hifi":895,
    "food":531
  },
  "address":{
    "country":"England",
    "zipcode":"86767",
    "city":"Liverpool",
    "countrycode":"GB"
  }
}
```



From **SQL** ...

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  "id":10,
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    "food":531
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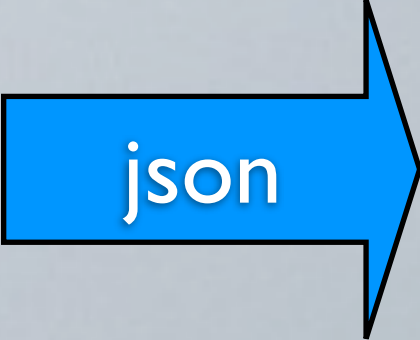


WEB APP



Couchbase Client

HTTP / REST



NoSQL

Memcache protocol




... to **NoSQL**

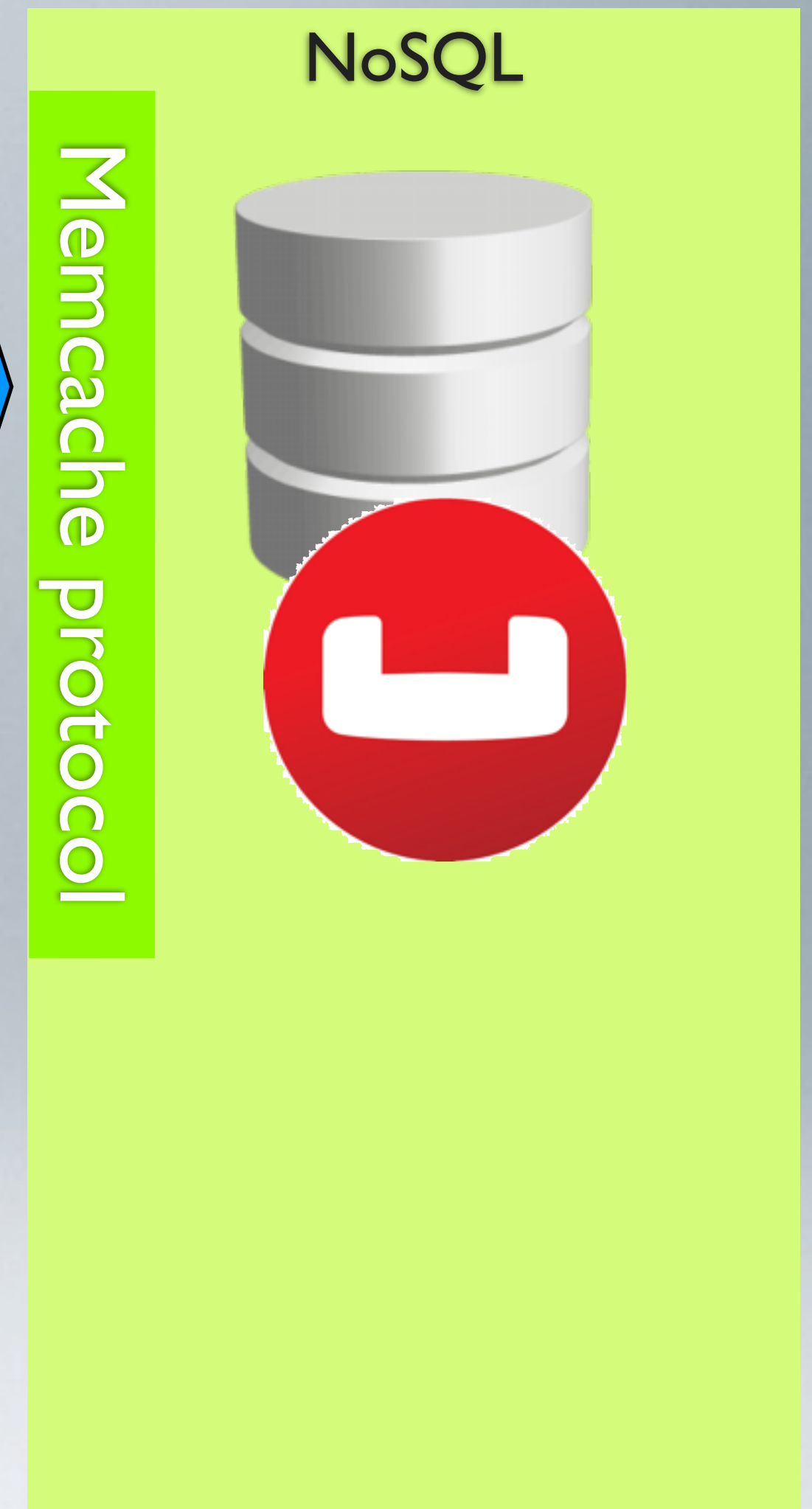
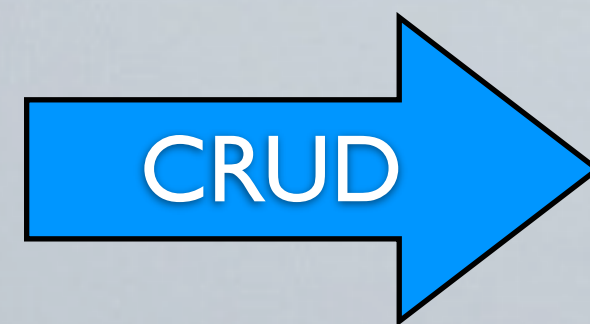
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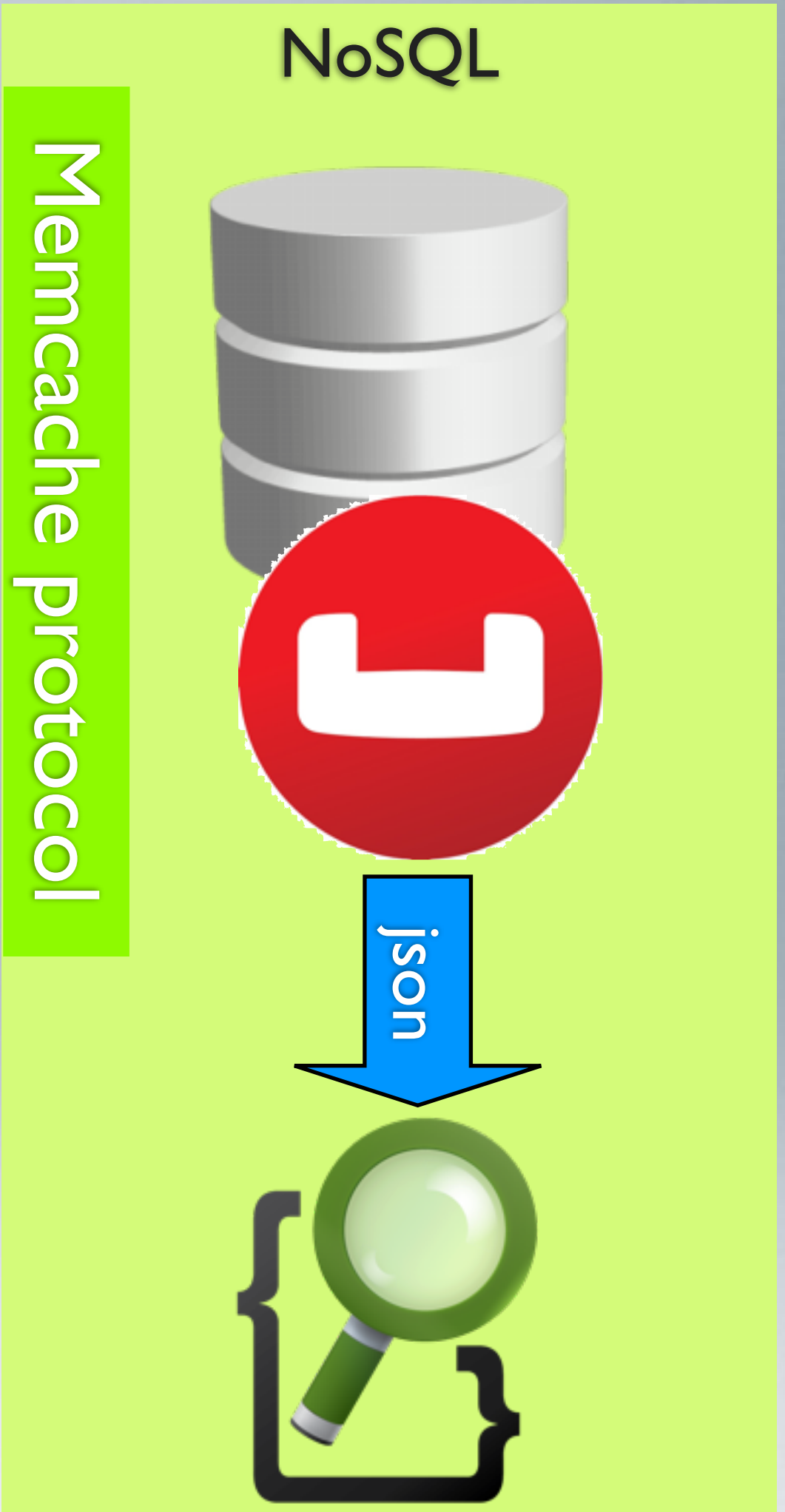
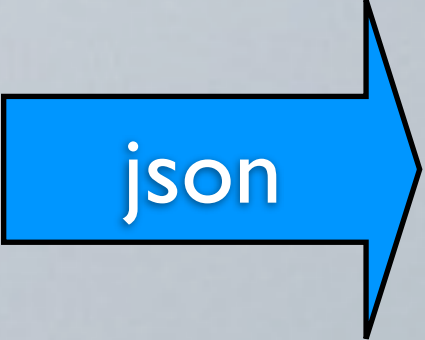
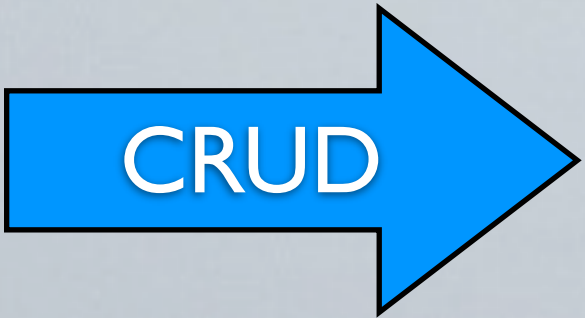
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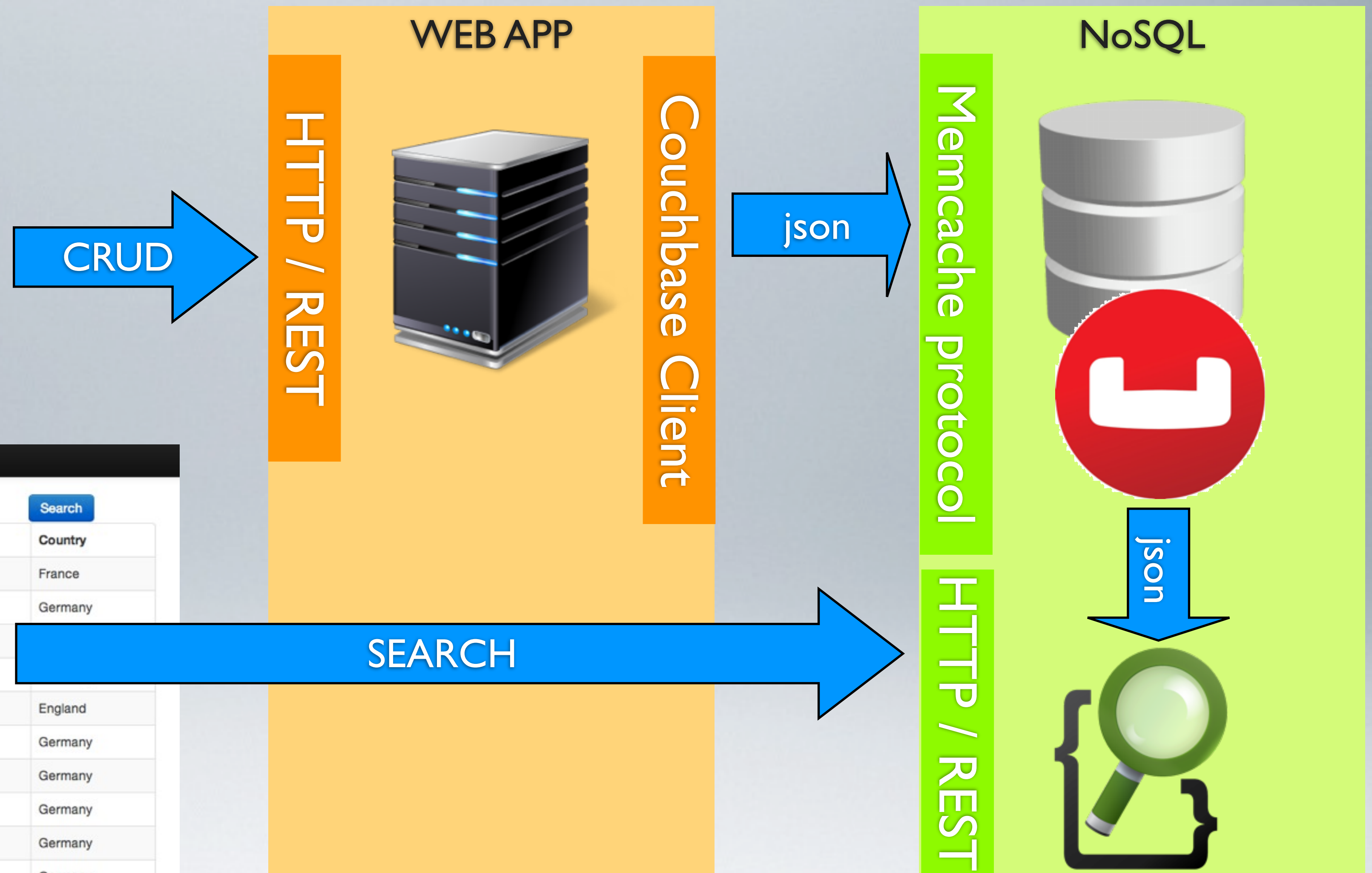
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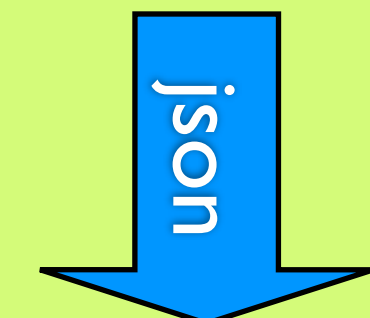
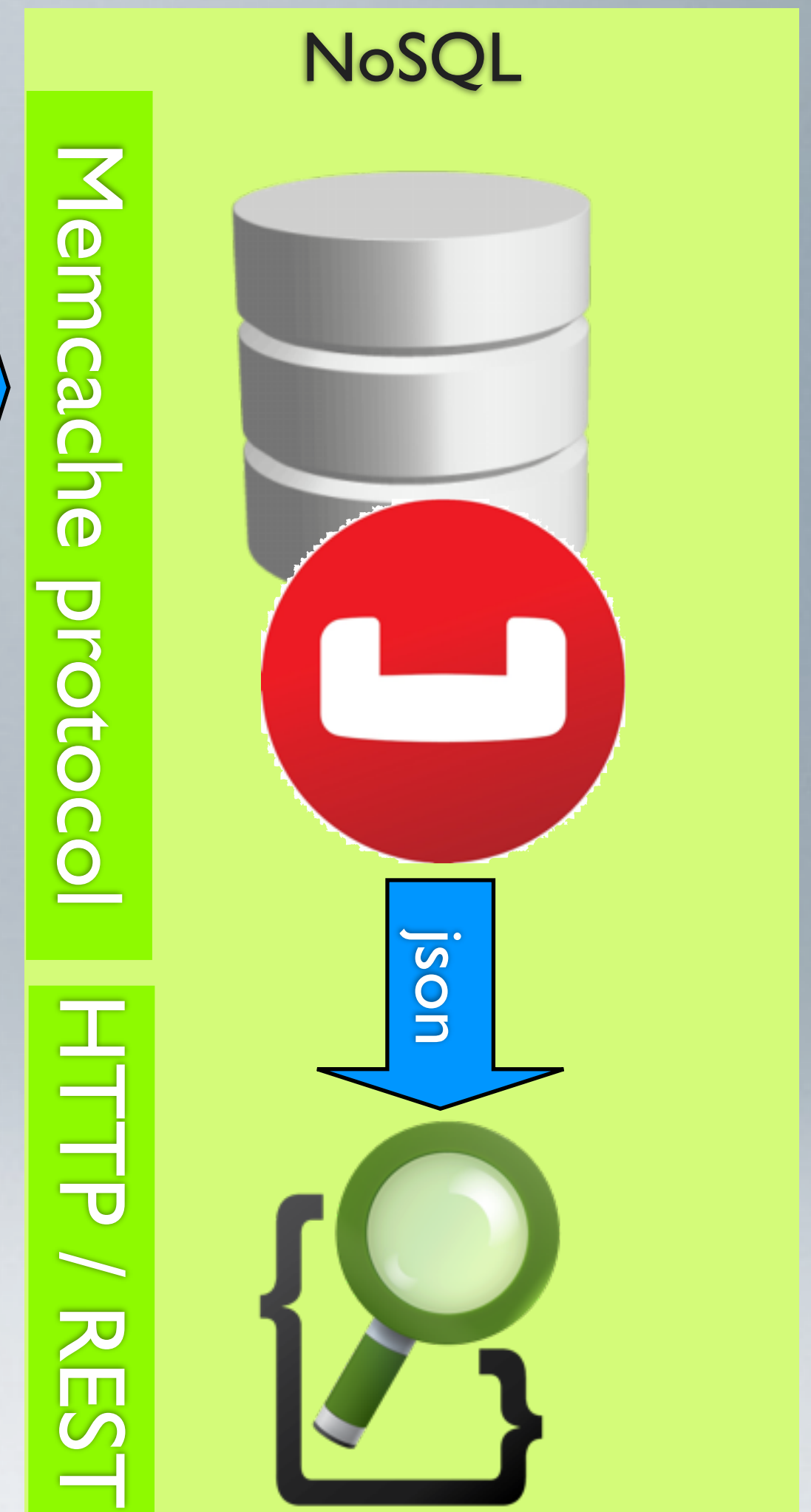
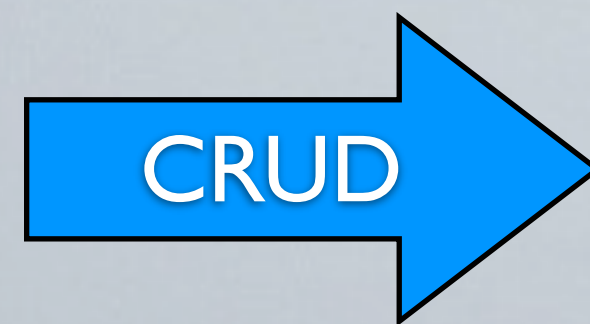
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```
$ git clone https://github.com/dadoonet/sql2nosql.git  
$ mvn clean install  
$ cd demo-webapp  
$ mvn jetty:run
```



DEMO TIME !

Just one fork ahead...

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That's all Folks!
Any Question?



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