



ELASTIFY YOUR APP

from SQL to NoSQL in less than one hour!

David Pilato

Technical advocate

elasticsearch.

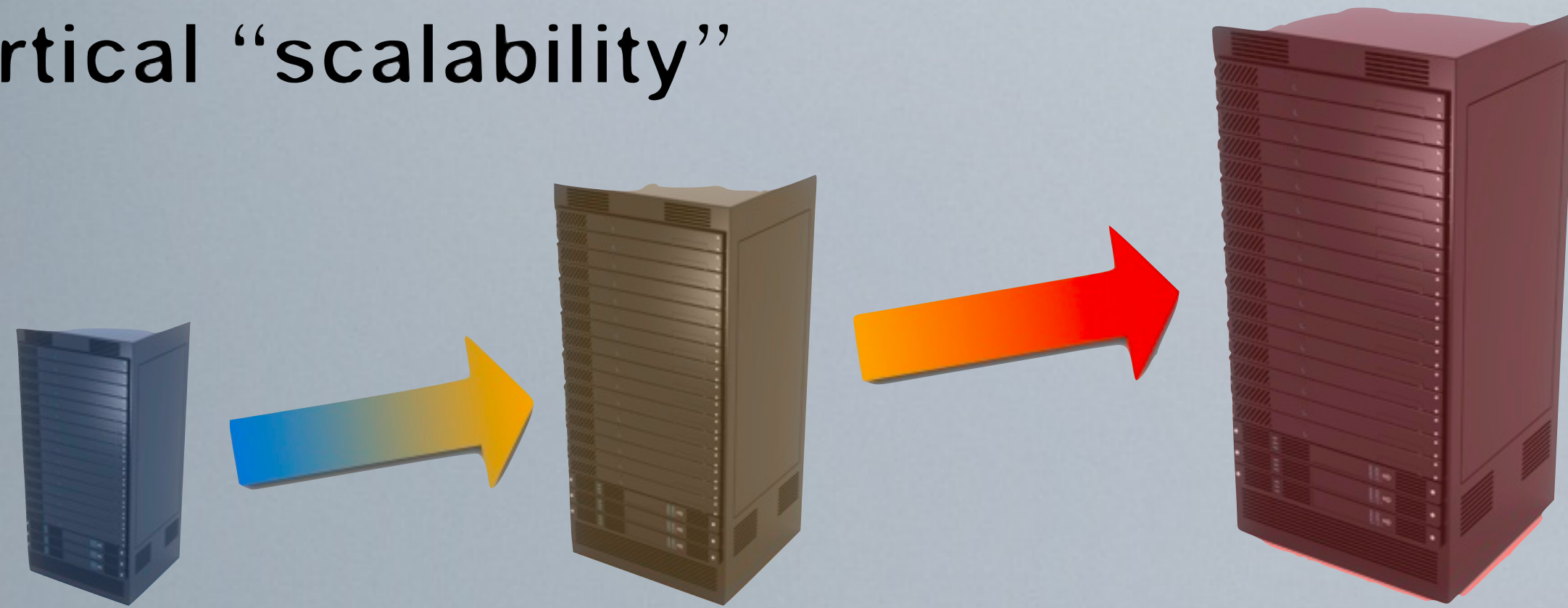
@dadoonet



MOVING?

Why?

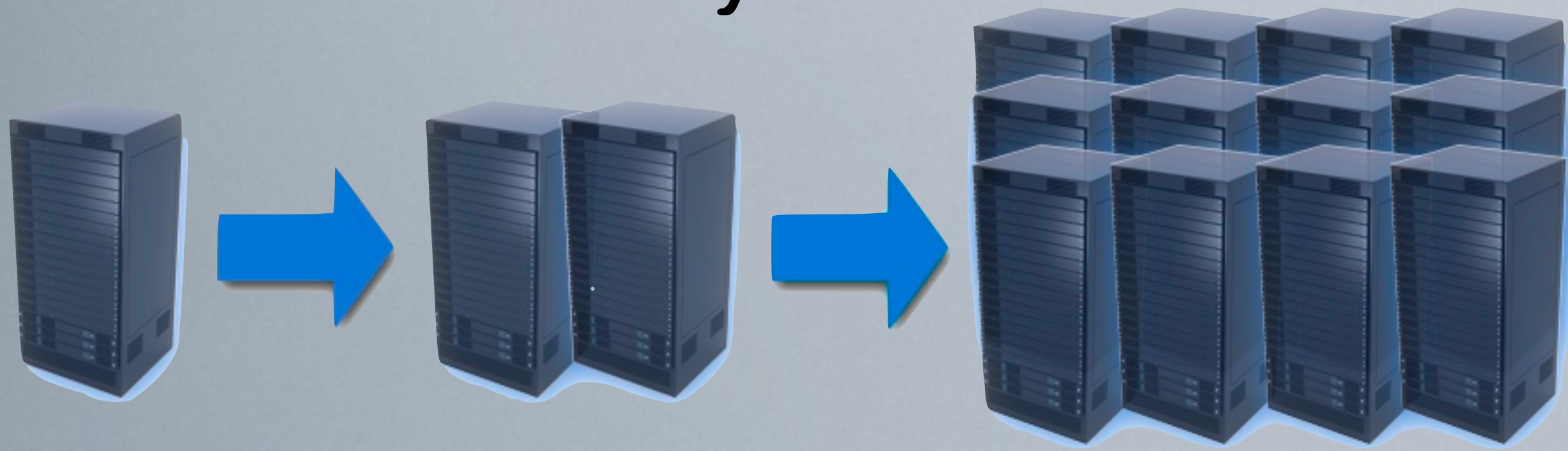
Vertical “scalability”



MOVING?

Why?

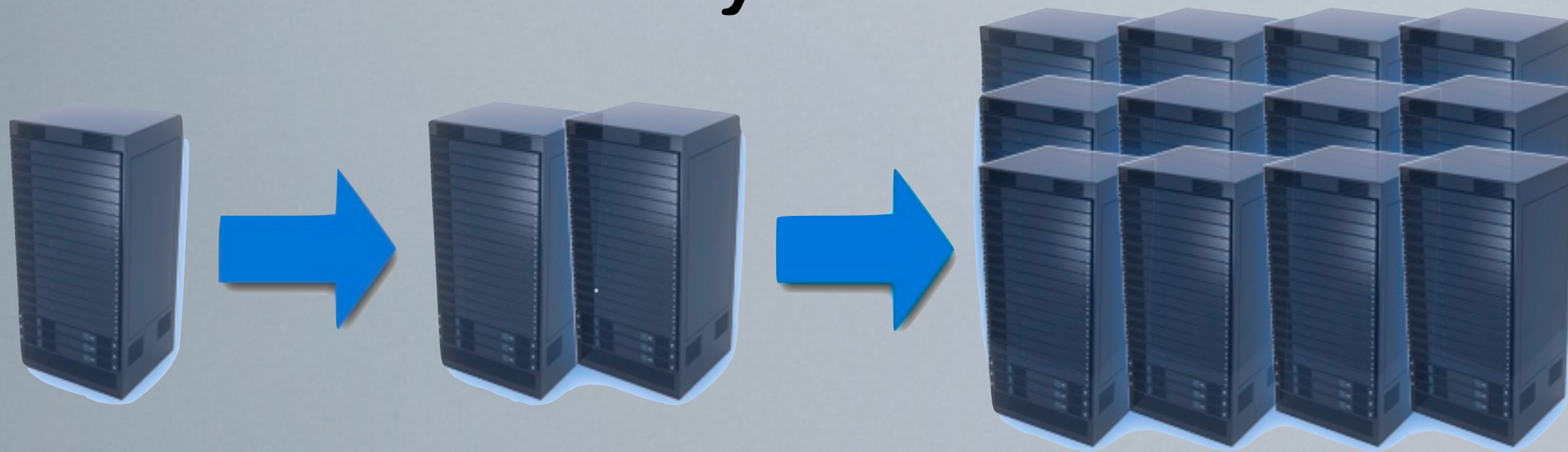
Horizontal scalability



MOVING?

Why?

Horizontal scalability

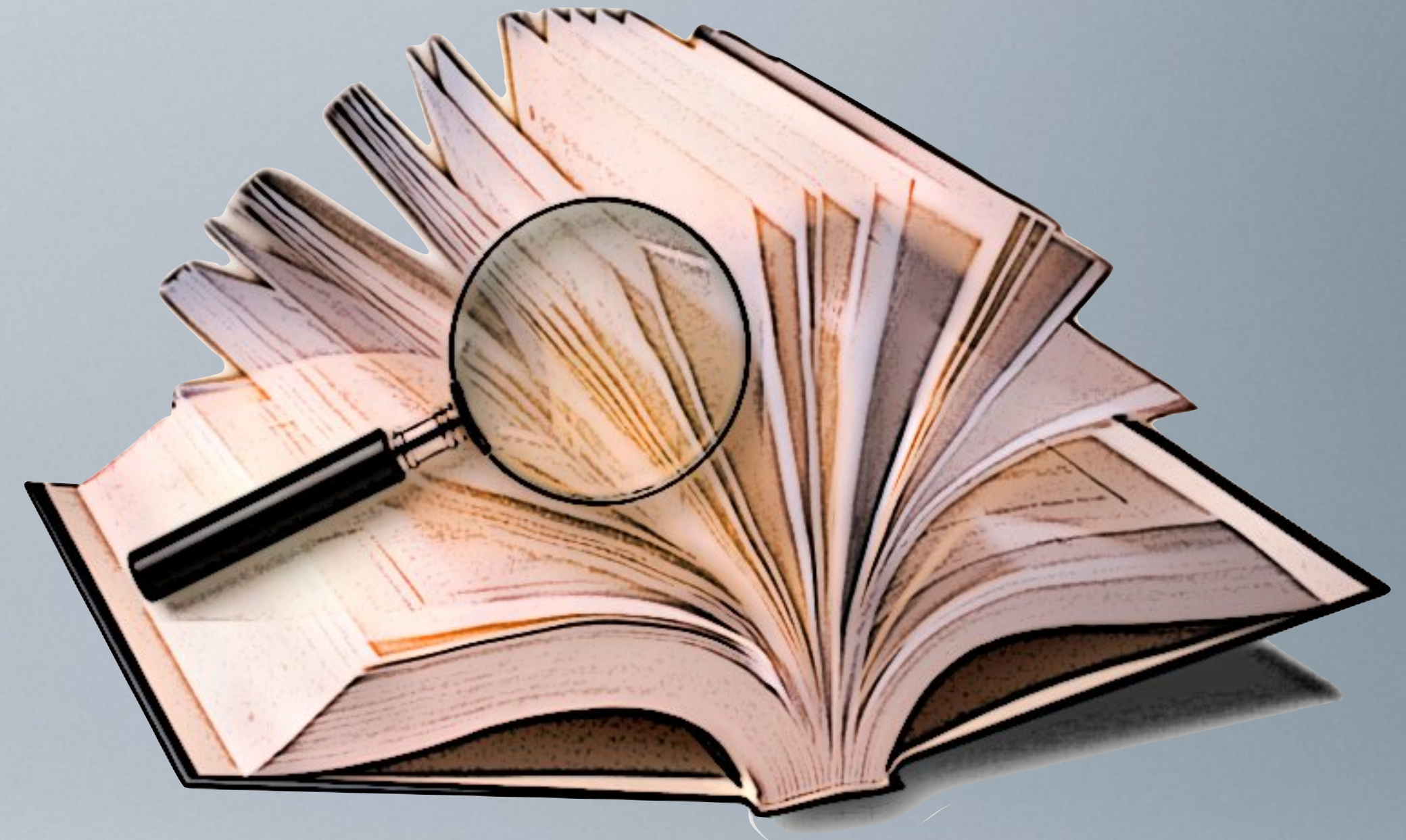
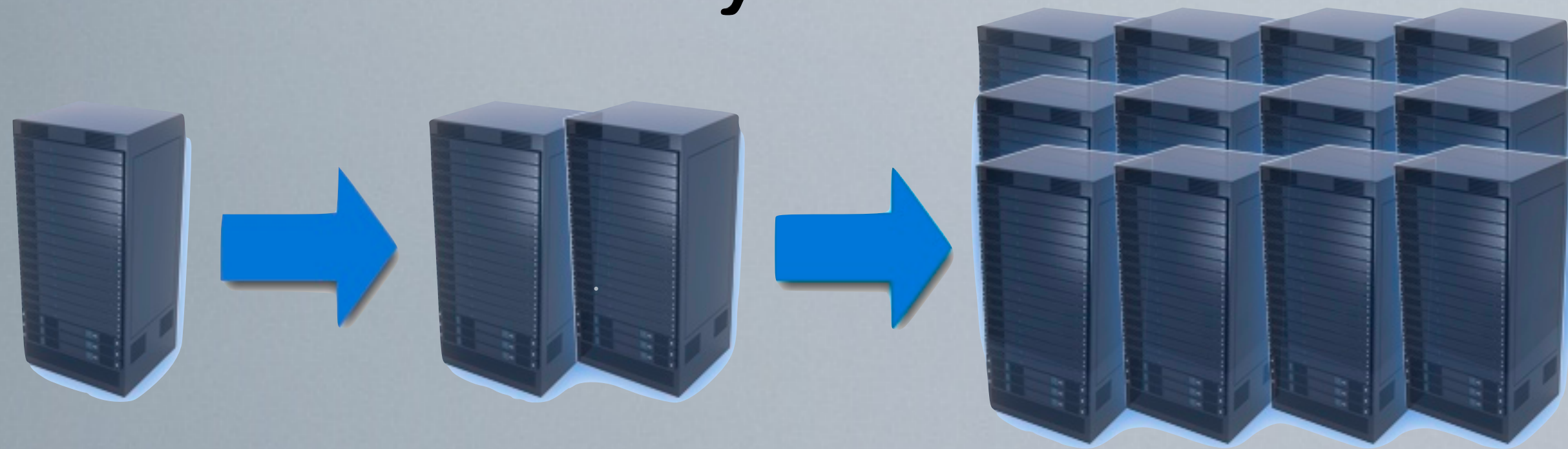


Object in Object Explorer
VIEW [HumanResources]
EmployeeID
Title
FirstName
MiddleName
LastName
Suffix AS [shift]
Name AS [department]
d.[GroupName]
edh.[StartDate]
edh.[EndDate]
FROM [HumanResources].[Employee] e
INNER JOIN [person].[contact] c
ON c.[contactID] = e.[EmployeeID]
INNER JOIN [HumanResources].[EmployeeDepartmentHistory] d
ON d.[EmployeeID] = e.[EmployeeID]
AND d.[departmentID] = c.[departmentID]
AND d.[shiftID] = edh.[shiftID];

MOVING?

Why?

Horizontal scalability



MOVING?

Why?

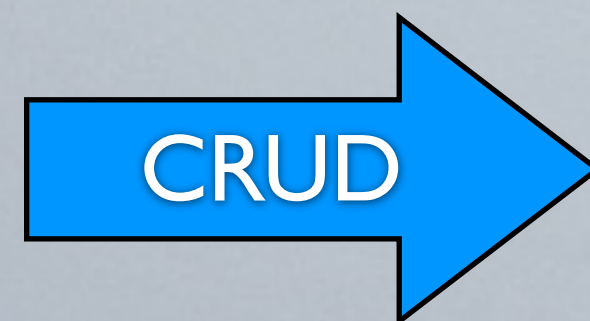
Contacts Home About

Person Information

Name

Number of Views by Category

Cars	
Shoes	
Toys	
Fashion	
Music	
Garden	
Electronics	566
Hifi	
Food	



Contacts Home About

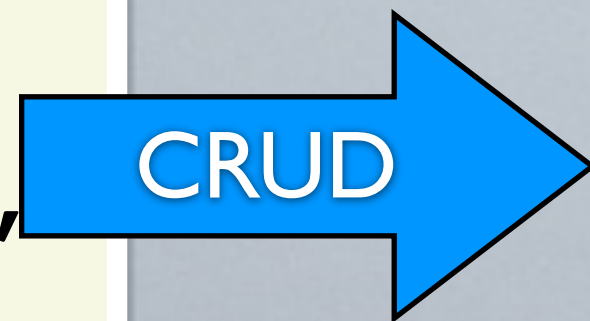
Type something...

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
6	Clotilde Ludivine	1954-03-19 00:00:00.0	Paris	Germany
7	Yahya Kadiatou	1954-05-25 00:00:00.0	Paris	Germany
8	Inaya Loane	2007-05-22 00:00:00.0	Nantes	Germany
9	Sasha Eloane	1986-05-01 00:00:00.0	Nantes	Germany
10	Matie Ruhan	2004-08-01 00:00:00.0	Paris	Germany



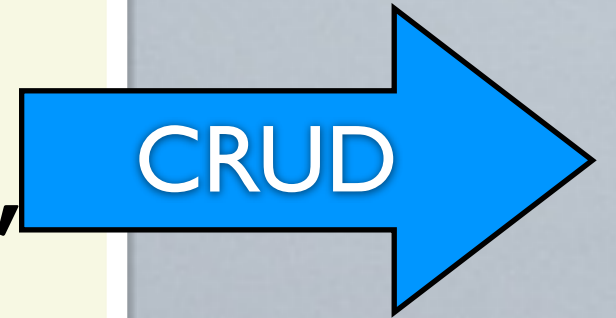
From **SQL** ...

```
{
  "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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WEB APP

Couchbase Client

HTTP / REST



NoSQL

Memcache protocol

... to **NoSQL**

[Contacts](#) [Home](#) [About](#)

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Joe Smith

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566

Save changes

Delete

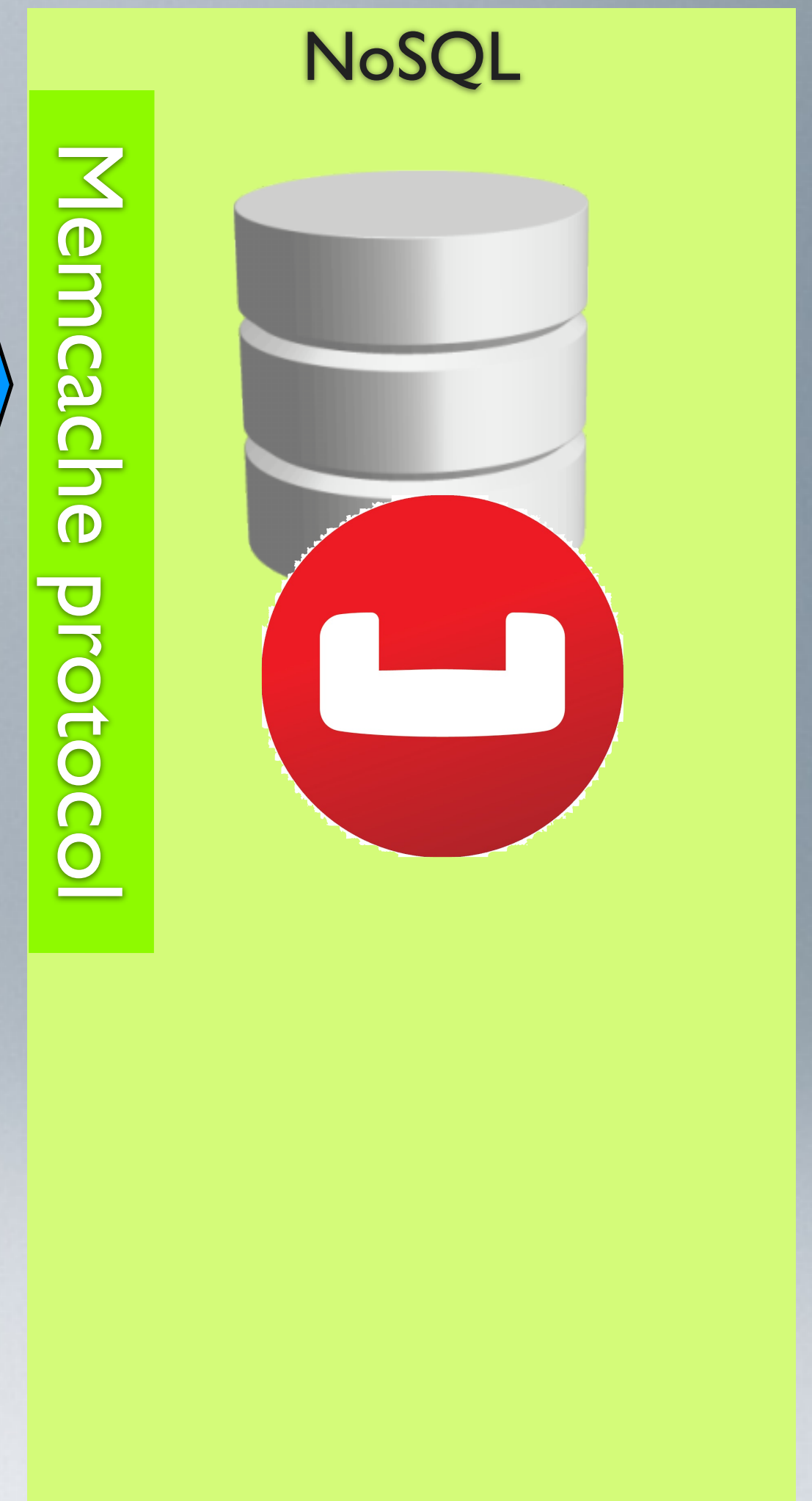
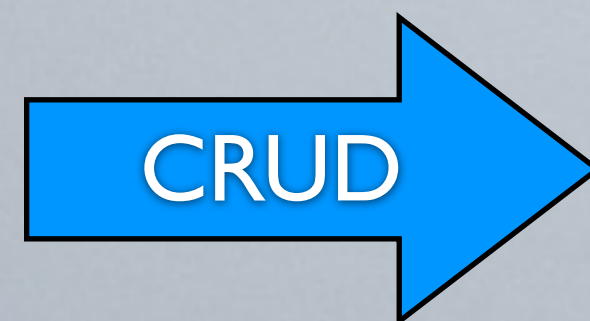
Cancel

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Type something...

Search

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... to **NoSQL**

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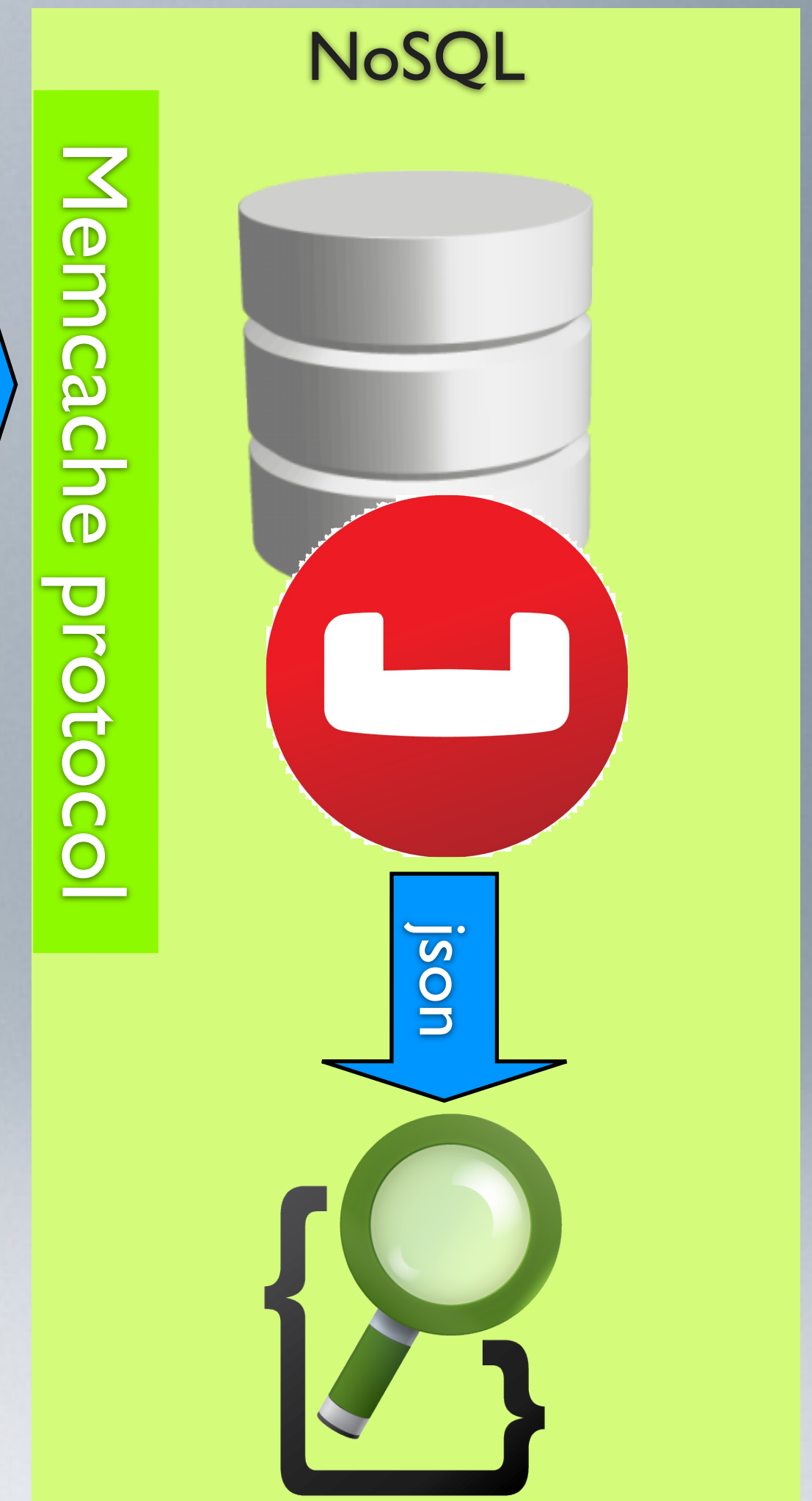
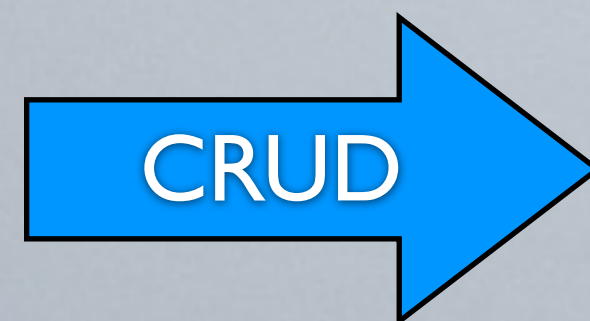
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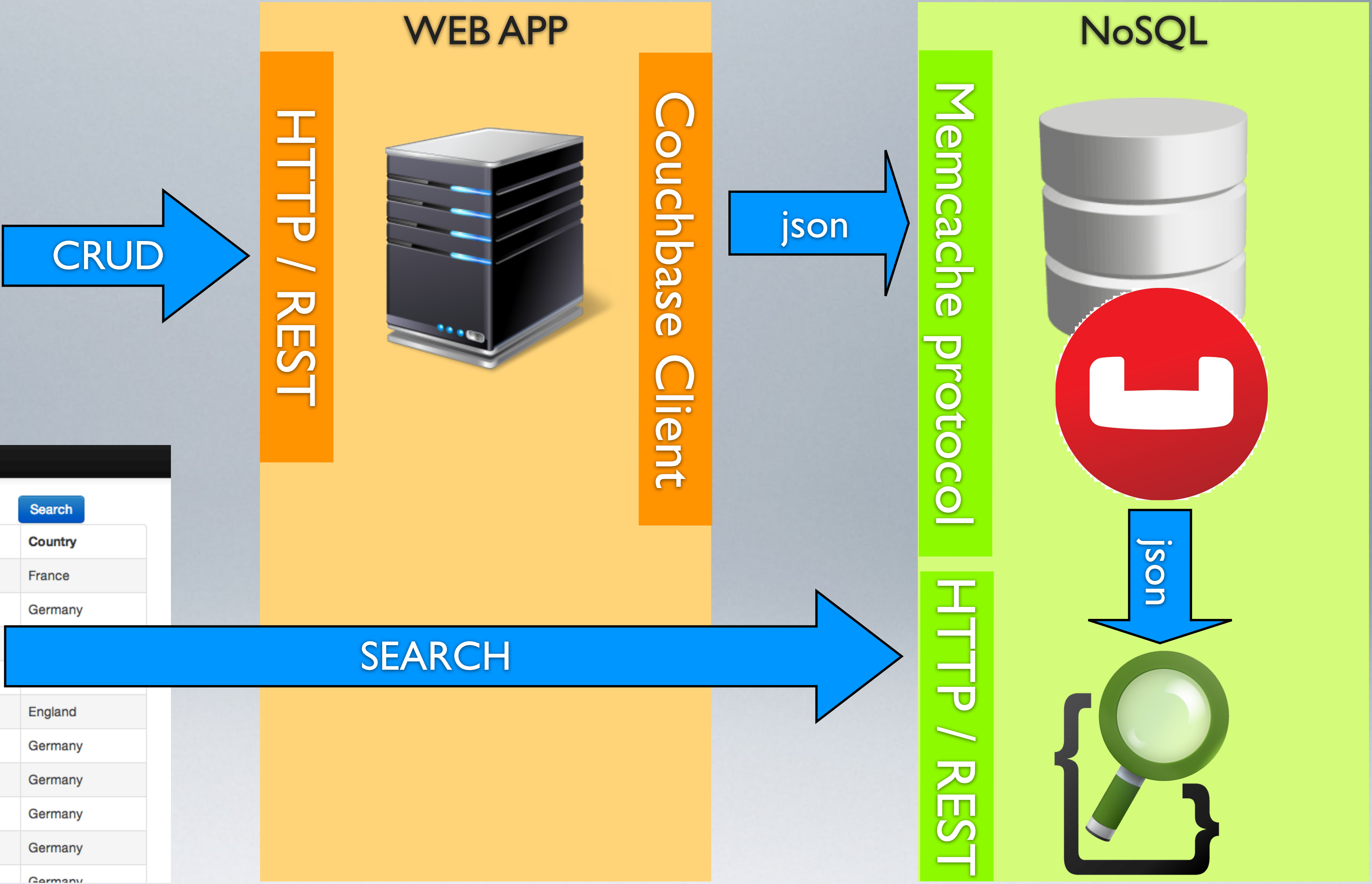
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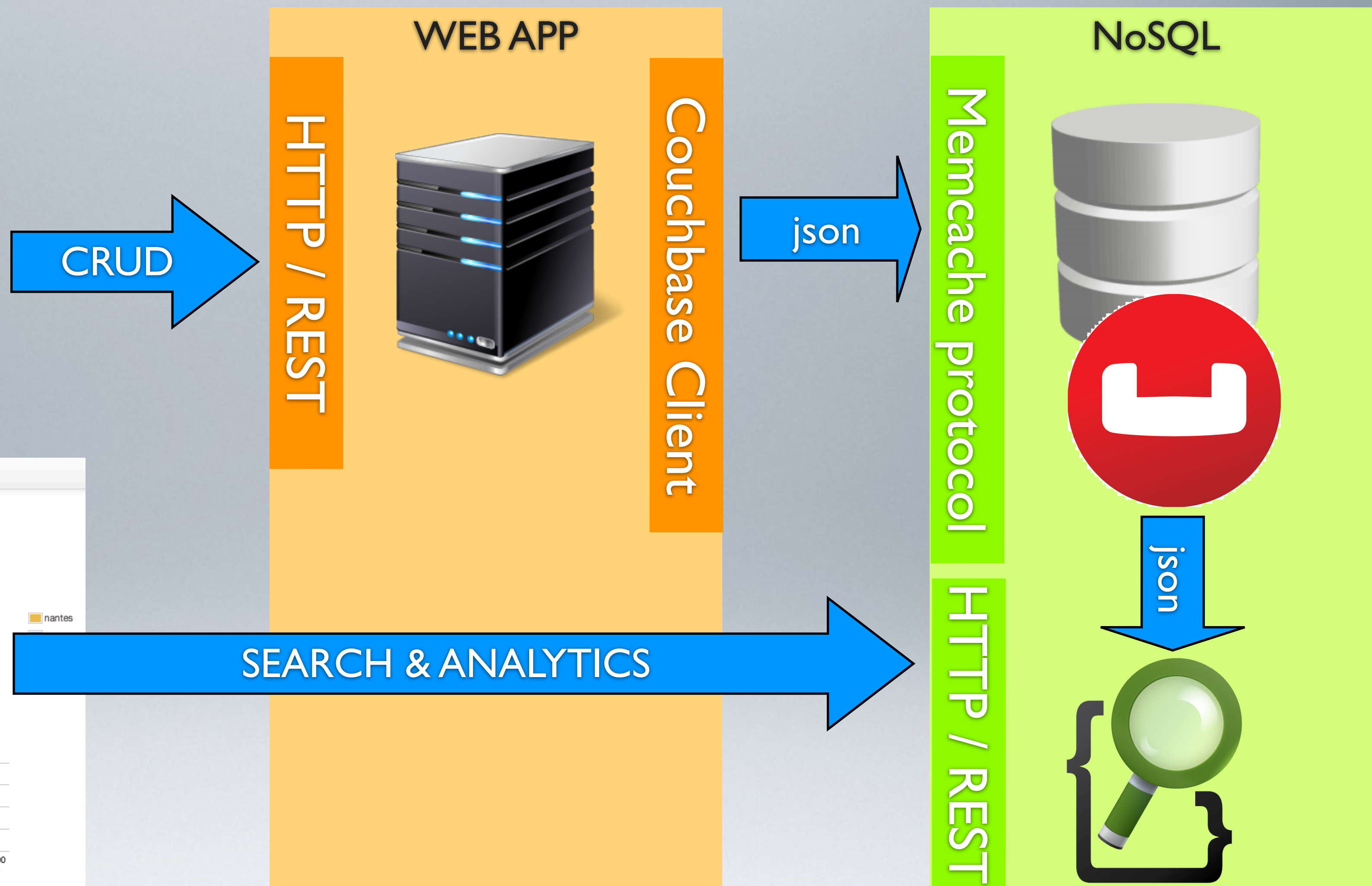
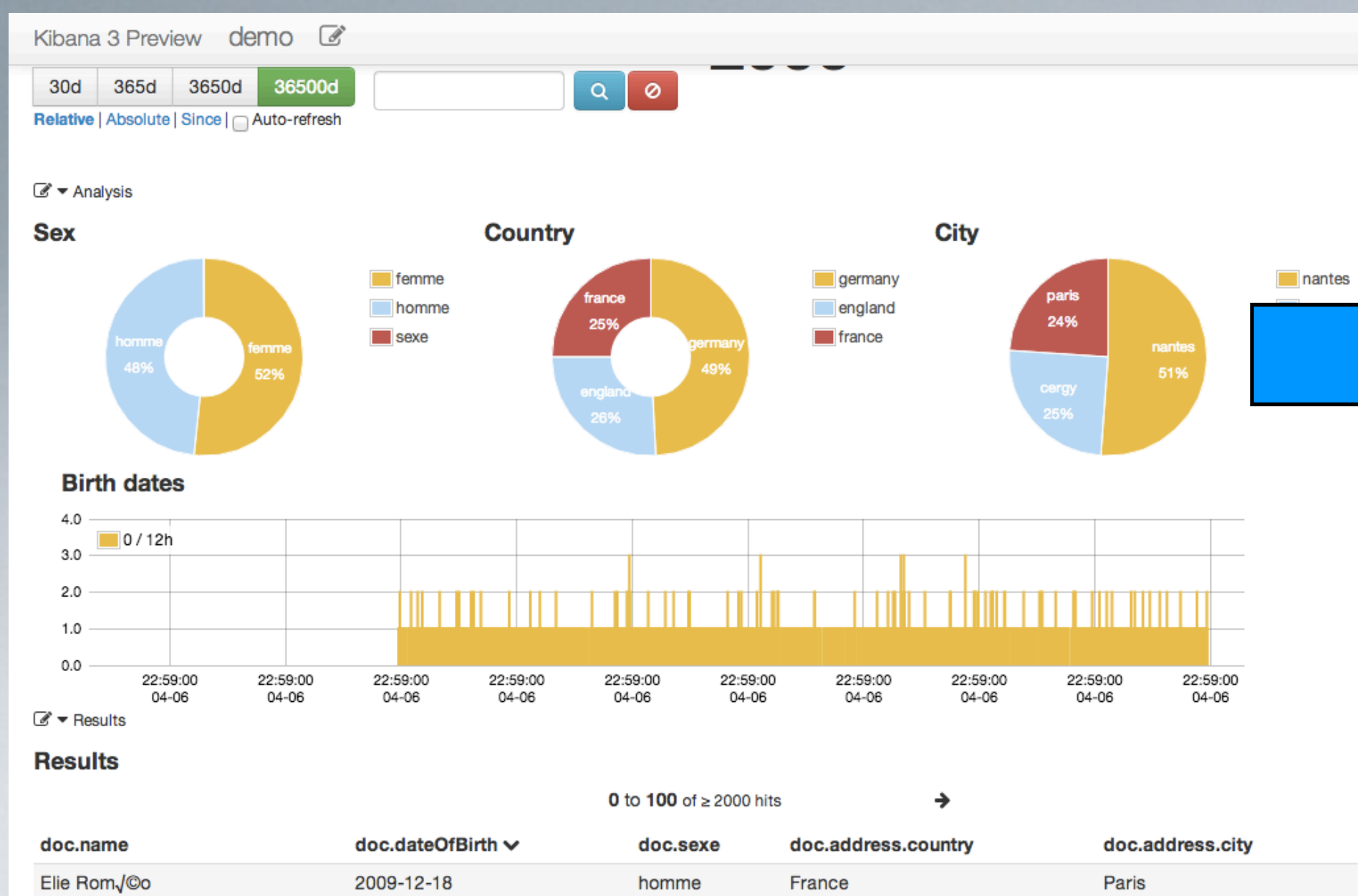
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```
$ git clone https://github.com/dadoonet/sql2nosql.git  
$ mvn clean install  
$ cd demo-webapp  
$ mvn jetty:run
```



DEMO TIME !

Just one fork ahead...

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That's all Folks!
Any Question?



David Pilato
Technical advocate

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