

David Pilato

Developer | Evangelist
@dadoonet

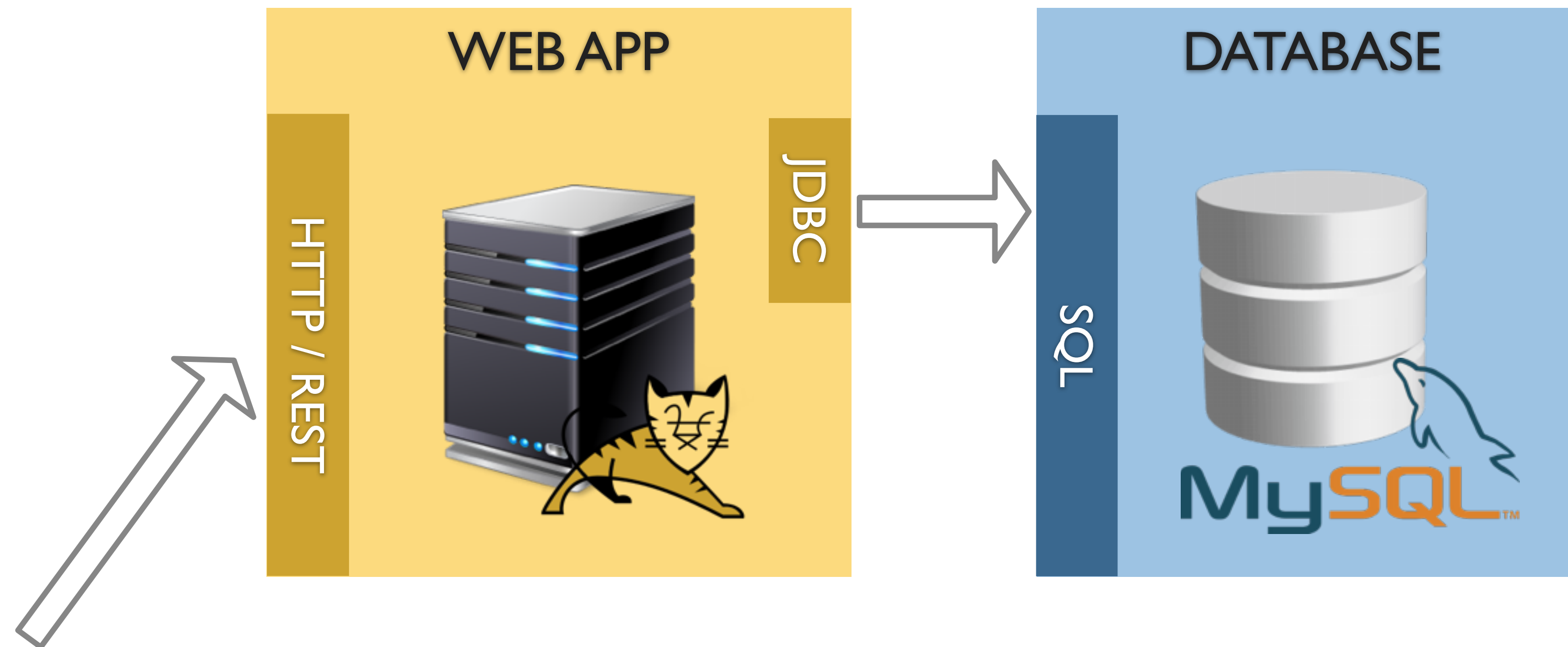
advanced search for your legacy app



our use case



our legacy platform



Contacts Search Advanced

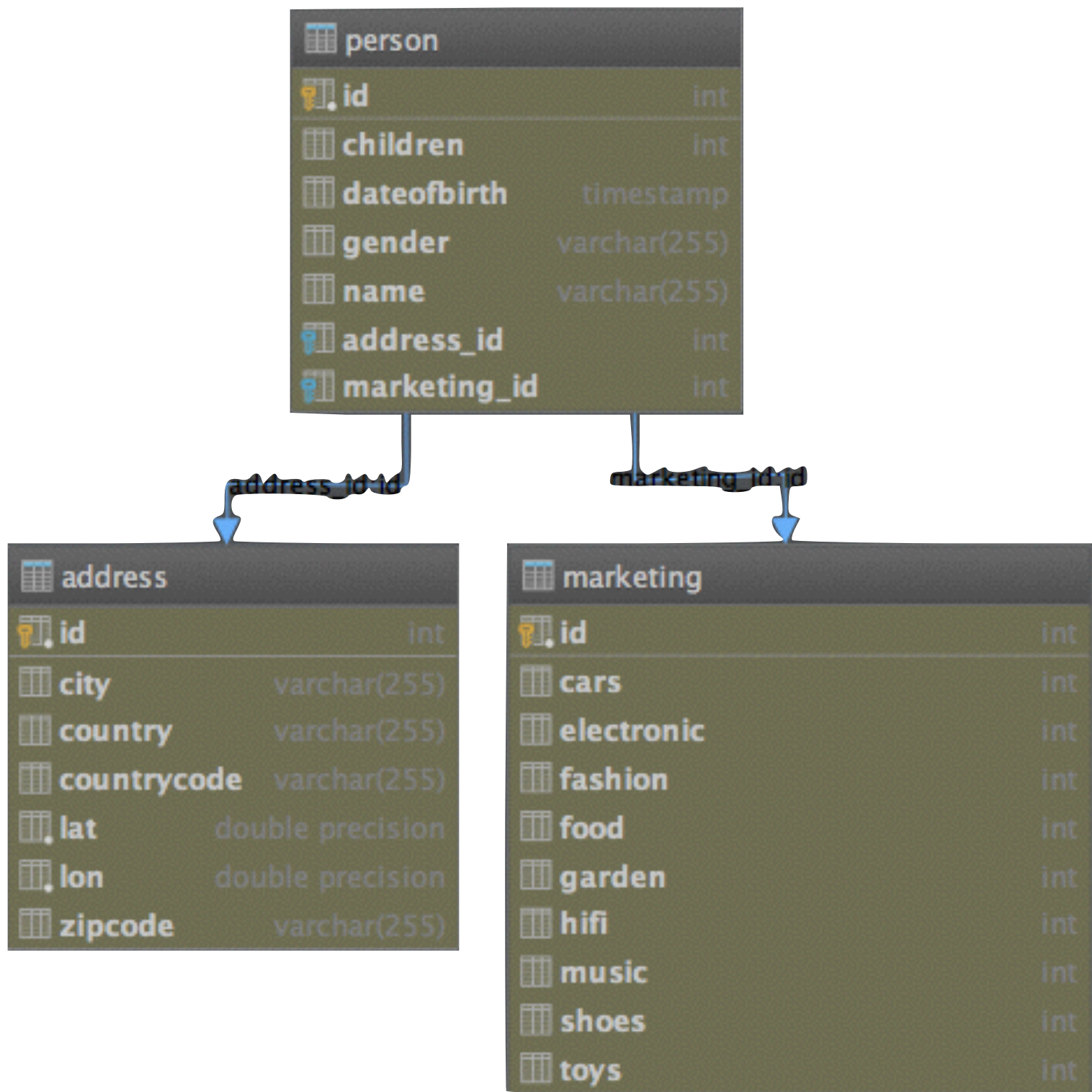
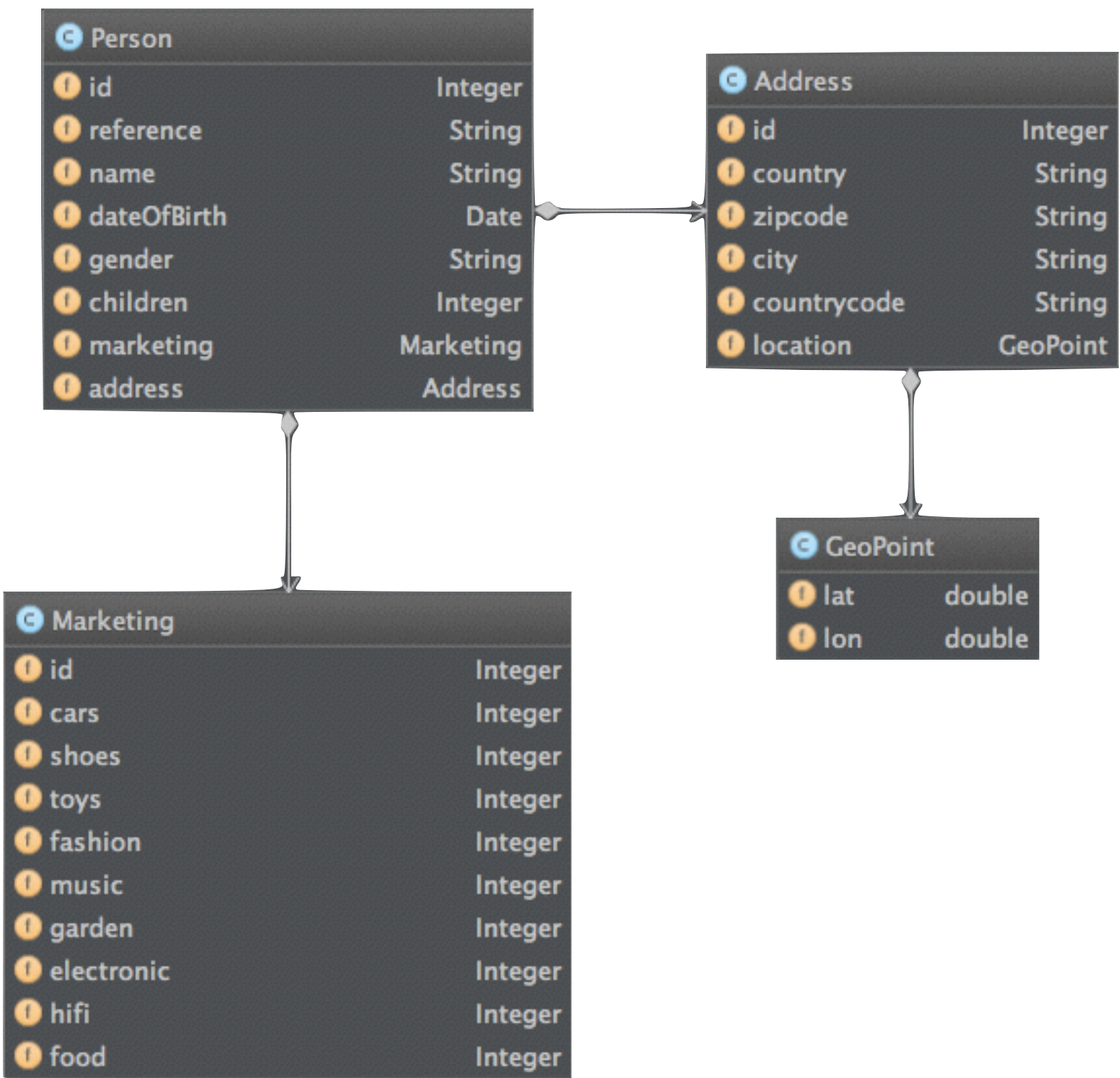
Name... Country... City... Search

Found 100 hits in 35 ms

Id	Name	Date Of Birth	City
1	Joe Smith	1977-06-08	Turin
2	Samia Nour	1993-02-13	Turin
3	Eva Kenza	1964-08-26	Bonn



our legacy domain / database



demo time

our legacy app



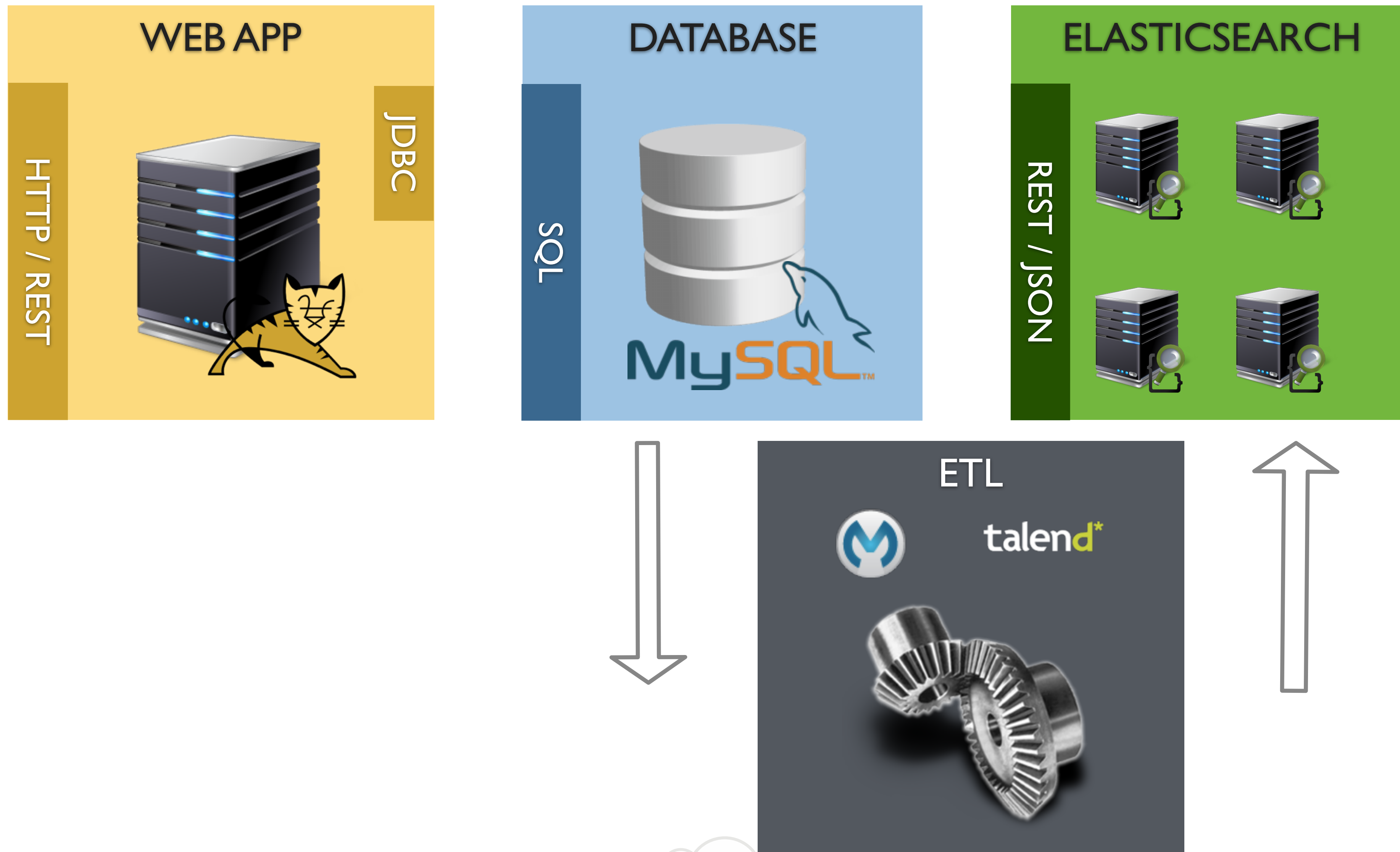
```
$ git clone https://github.com/dadoonet/legacy-search.git  
$ git checkout 00-legacy  
$ mvn clean install jetty:run
```



connecting with our app architecture



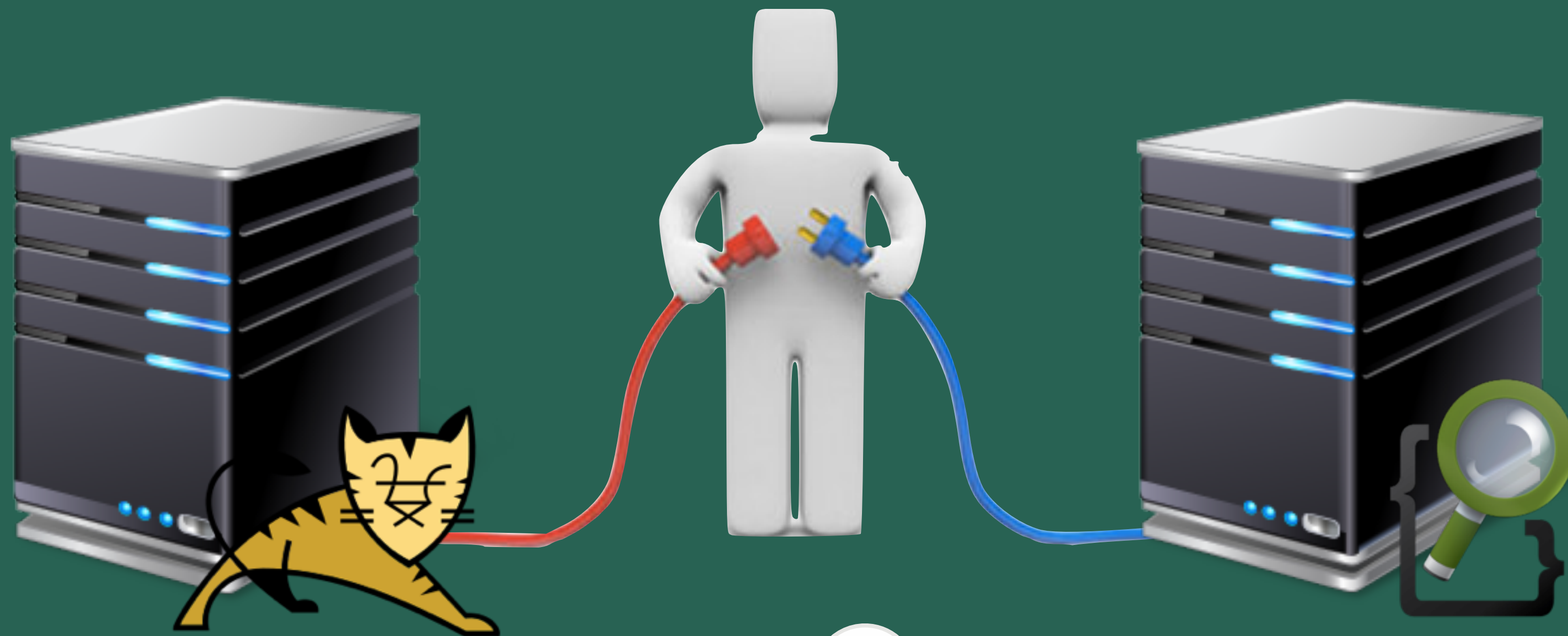
using a ETL



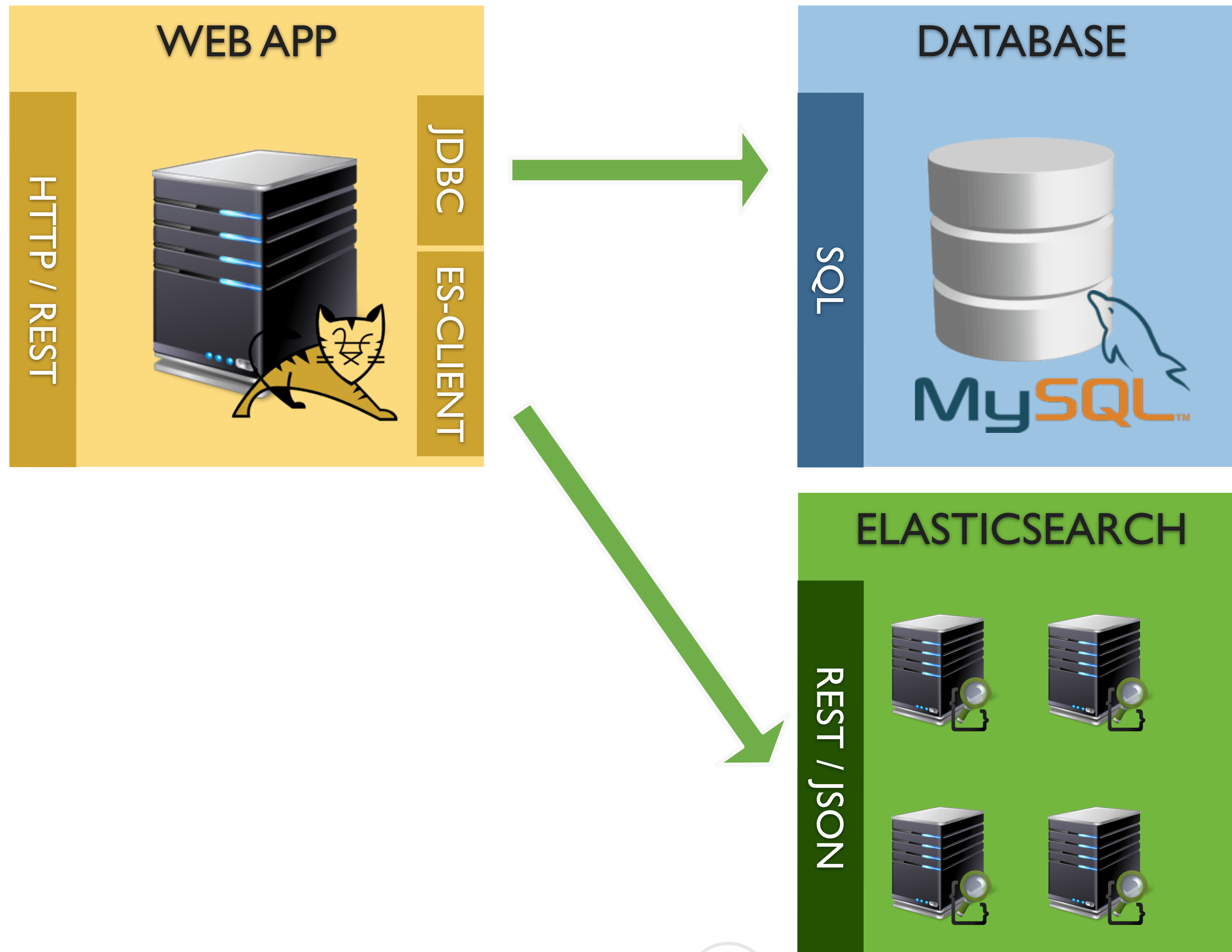


Do It Yourself

direct connection



direct connection



JSON document design



person	
id	int
children	int
dateofbirth	timestamp
gender	varchar(255)
name	varchar(255)
address_id	int
marketing_id	int

address	
id	int
city	varchar(255)
country	varchar(255)
countrycode	varchar(255)
lat	double precision
lon	double precision
zipcode	varchar(255)

marketing	
id	int
cars	int
electronic	int
fashion	int
food	int
garden	int
hifi	int
music	int
shoes	int
toys	int

```
PUT /person/person/1
{
  "name":"Joe Pink",
  "dateOfBirth":"1971-12-26",
  "address_id":"2",
  "marketing_id":"3"
}
```

```
PUT /person/address/2
{
  "city":"Paris",
  "country":"France"
}
```

```
PUT /person/marketing/3
{
  "cars":1000,
  "food":1500
}
```



JSON document design



person	
id	int
children	int
dateofbirth	timestamp
gender	varchar(255)
name	varchar(255)
address_id	int
marketing_id	int

address	
id	int
city	varchar(255)
country	varchar(255)
countrycode	varchar(255)
lat	double precision
lon	double precision
zipcode	varchar(255)

marketing	
id	int
cars	int
electronic	int
fashion	int
food	int
garden	int
hifi	int
music	int
shoes	int
toys	int

```
PUT /person/person/1
{
  "name":"Joe Pink",
  "dateOfBirth":"1971-12-26",
  "address":{
    "city":"Paris",
    "country":"France"
  },
  "marketing":{
    "cars":1000,
    "food":1500
  }
}
```

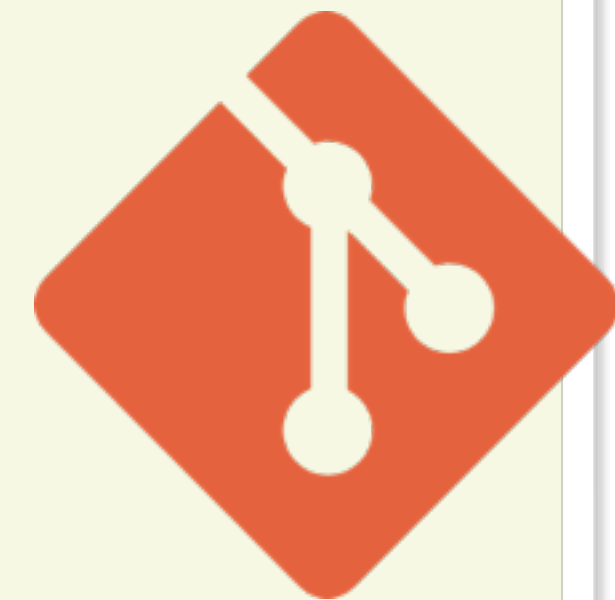


demo time

direct connection



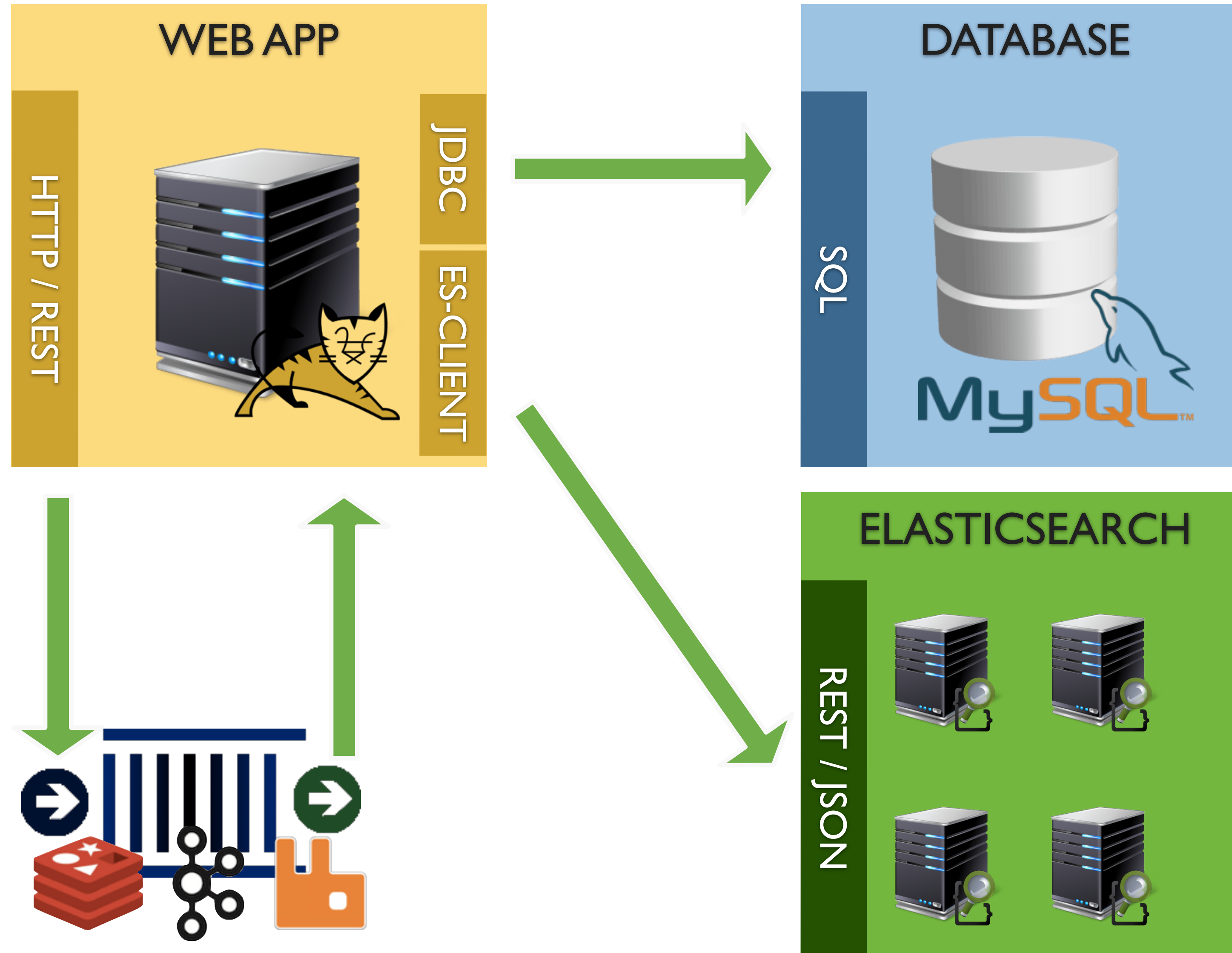
```
$ git checkout 01-direct  
$ git checkout 02-bulk  
$ git checkout 03-mapping  
$ git checkout 04-aggs  
$ git checkout 05-compute  
$ mvn clean install jetty:run  
$ cat README.markdown
```



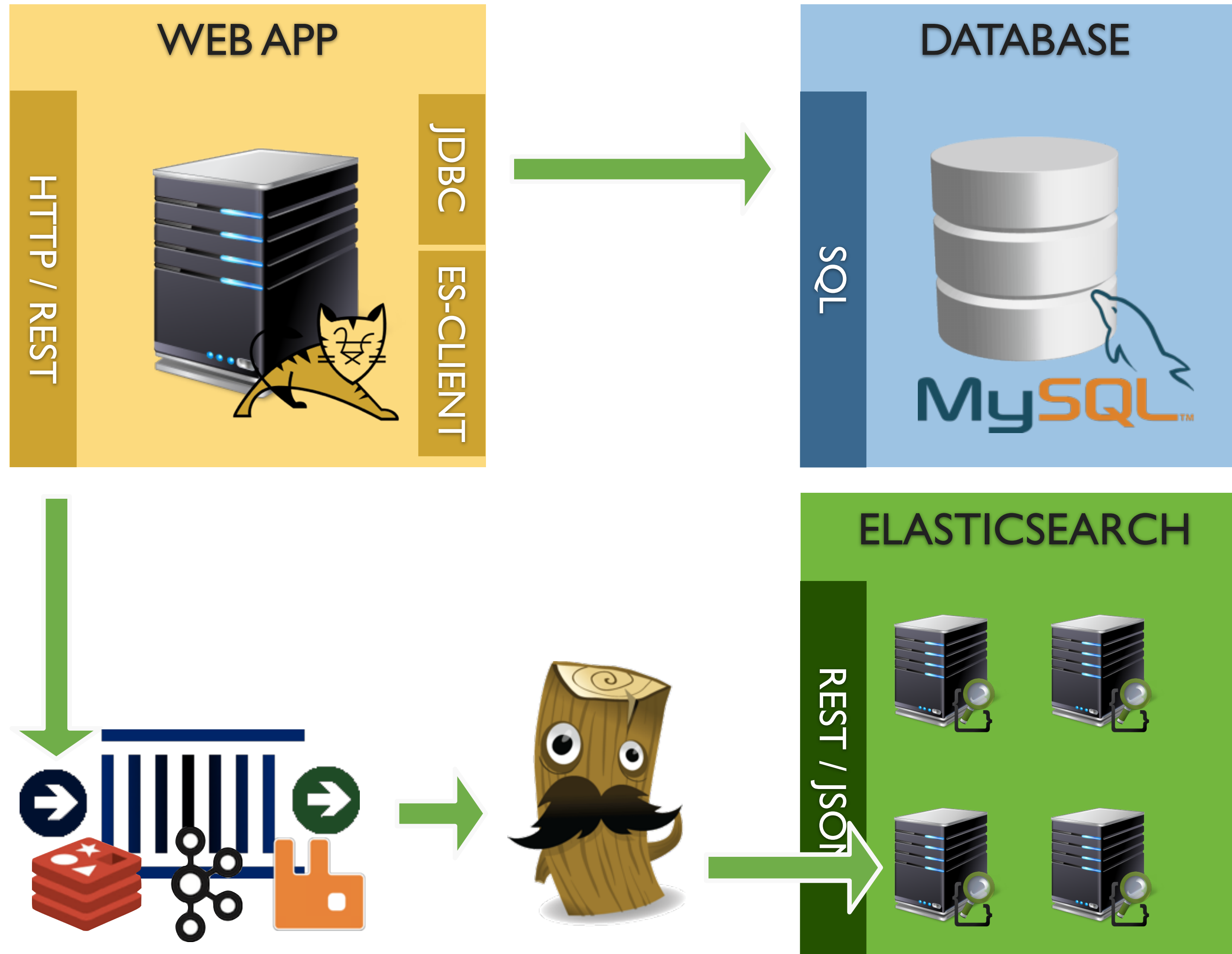
synchronous vs asynchronous



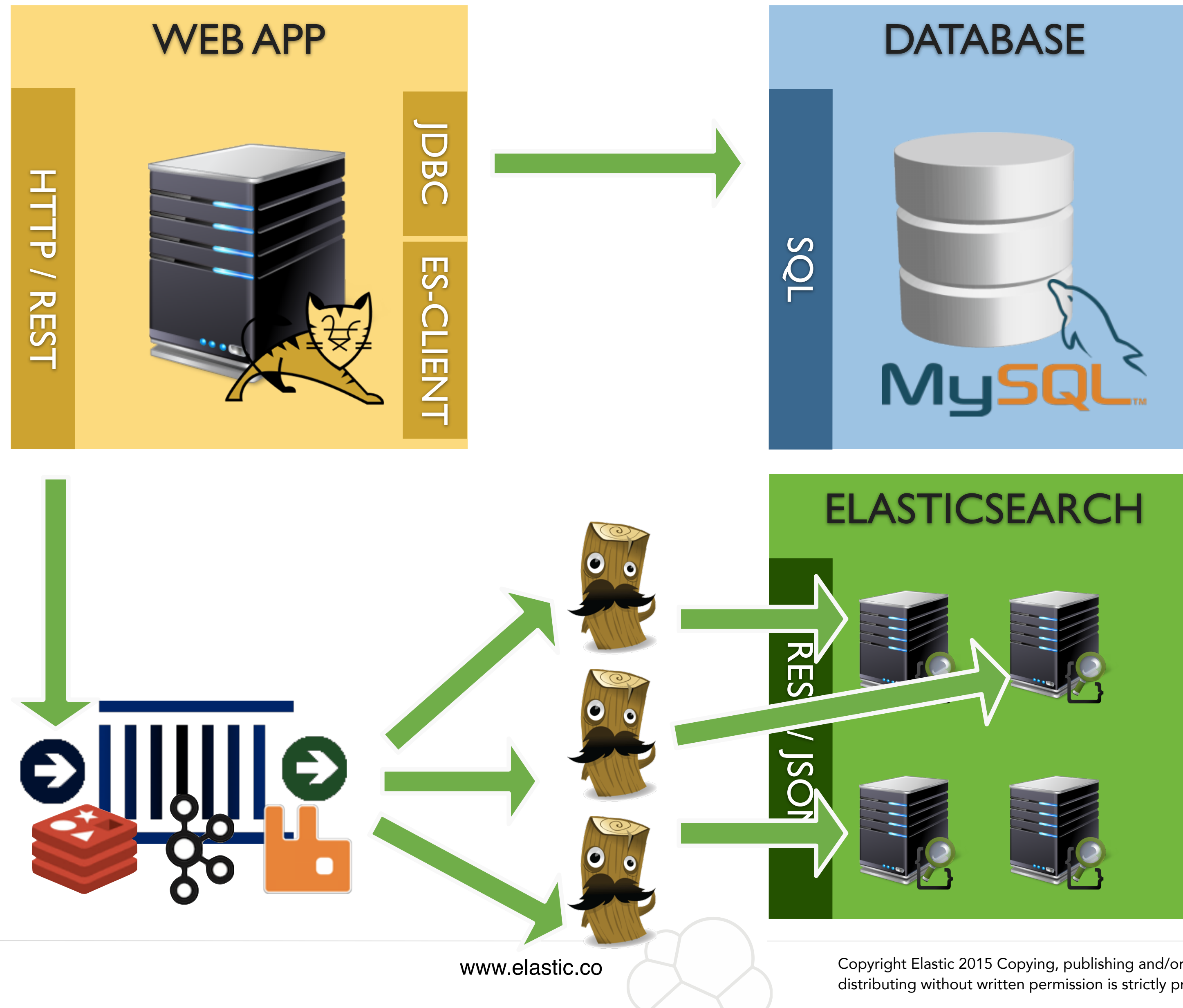
using brokers



using brokers



using brokers



COME TO THE DARK SIDE

WE HAVE COOKIES!



Help

Marketing data demo

This demo shows marketing data generated randomly.

Per country and city



Legend

- Italy
- Germany
- France
- England
- Turin
- Ischia

Per gender



Legend

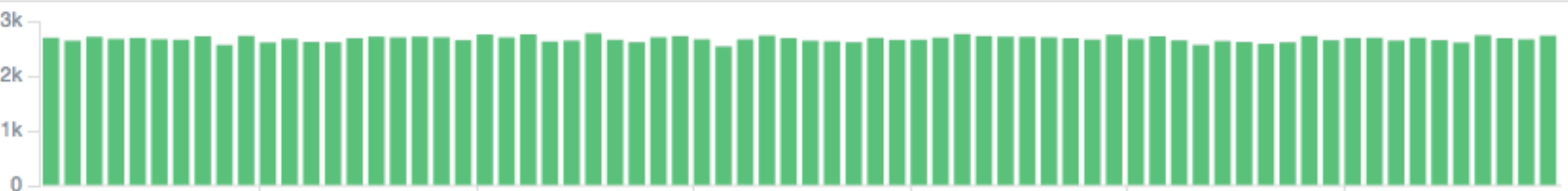
- female
- male

Children AVG

1.995

Average children

By year



Legend

- Count

Stats per gender and city

Top 2 gender: female

Top 5 address.city	Count	Average children
Turin	11839	1.986
Bonn	11822	2.012
Nantes	11770	1.998
Plymouth	11760	2.001
Ischia	6005	1.986

Export: [Raw](#) [Formatted](#)

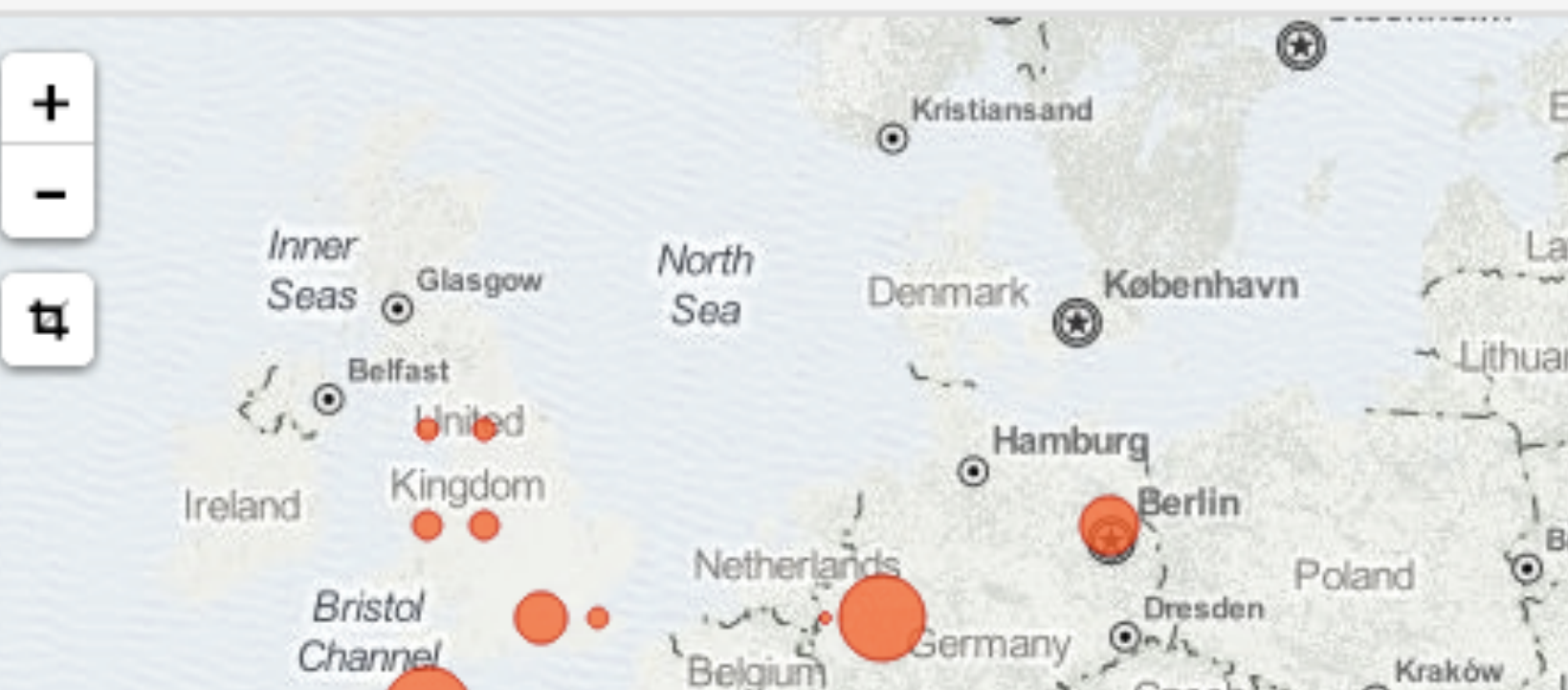
Per country and gender



Legend

- England
- Germany
- France
- Italy

Localisation





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Thanks!

<https://www.elastic.co/subscriptions>

