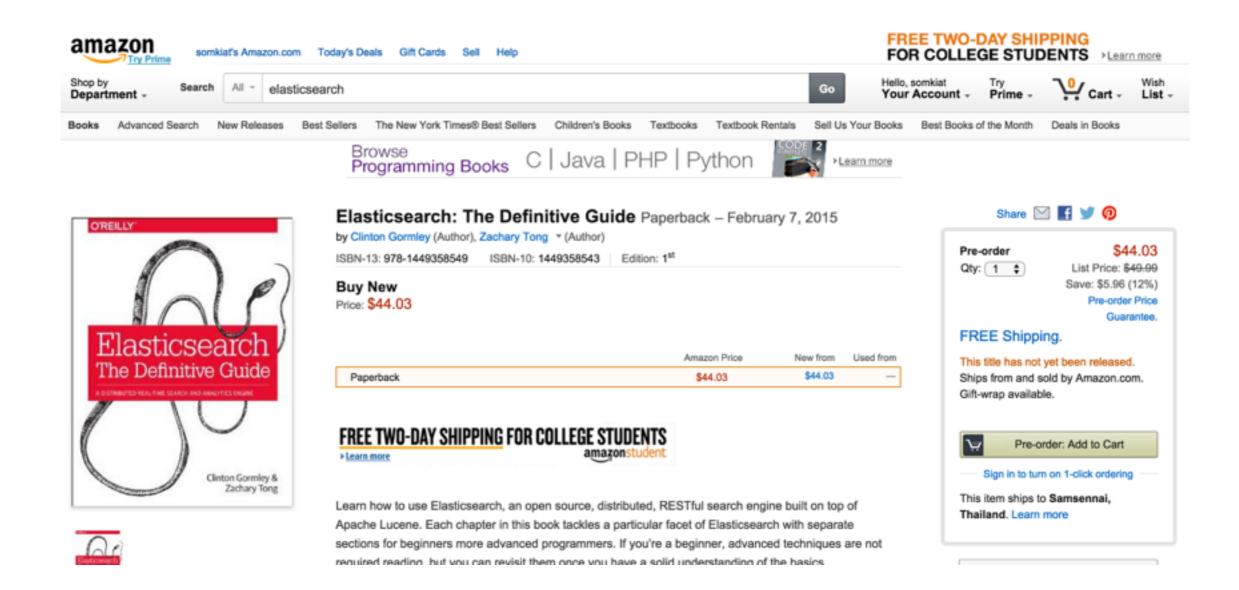


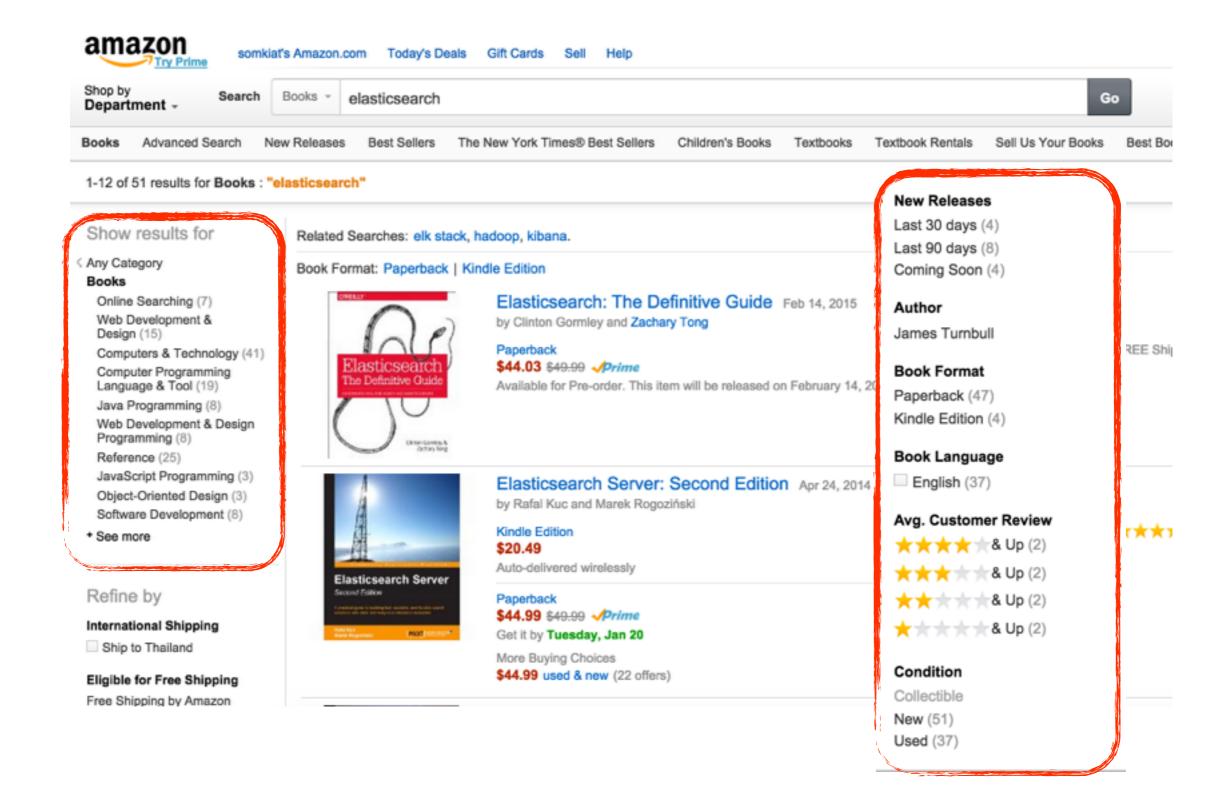
Search DSL

book\_06.txt

#### Requirement



#### Requirement



## Analysis



#### Let's Start!

## Preparing index

DELETE /store

PUT /store

# My Book

Name	Туре	Value
Id	Number	1
Title	String	Elasticsearch
Author_Name	String	["A", "B"]
Category	String	["A", "B"]
Isbn	String	1449358543
Price	Double	44.30
Page	Number	724
Active	Number	Inactive = 0, Active = 1
Published_Date	Date	2015-01-15
Short_Description	String	
Long_Description	String	

#### Preparing data

Create documents

```
"took": 1,
"timed_out": false,
"_shards": {
    "total": 5,
    "successful": 5,
    "failed": 0
},
"hits": {
    "total": 5,
    "max_score": 1,
    "hits": [
```

### Query DSL

```
GET /_search
{
    "query": YOUR QUERY
}
```

#### Search data

```
GET /store/book/_search
 "query": {
   "match": {
    "title": "elasticsearch"
```

http://www.elasticsearch.org/guide/en/elasticsearch/reference/current/query-dsl-term-query.html

#### Search data

```
GET /store/book/_search
 "query": {
   "multi_match": {
    "query": "nosql",
    "fields": [
     "title",
     "long_description"
```

#### Search data (term)

```
GET /store/book/_search
 "query": {
   "term": {
    "title": {
     "value": "elasticsearch"
```

http://www.elasticsearch.org/guide/en/elasticsearch/reference/current/query-dsl-term-query.html

### Search data :: Terms(in)

```
GET /store/book/_search
 "query": {
   "terms": {
    "title": [
      "search",
      "the"
}}}
```

http://www.elasticsearch.org/guide/en/elasticsearch/reference/current/query-dsl-terms-query.html

#### Search data: Range

```
GET /store/book/_search
 "query": {
   "range": {
    "price": {
     "gte": 10,
     "lte": 21
```

#### Multiple clauses :: boolean

```
"bool": {
    "must": { "match": { "tweet": "elasticsearch" }},
    "must_not": { "match": { "name": "mary" }},
    "should": { "match": { "tweet": "full text" }}
}
```

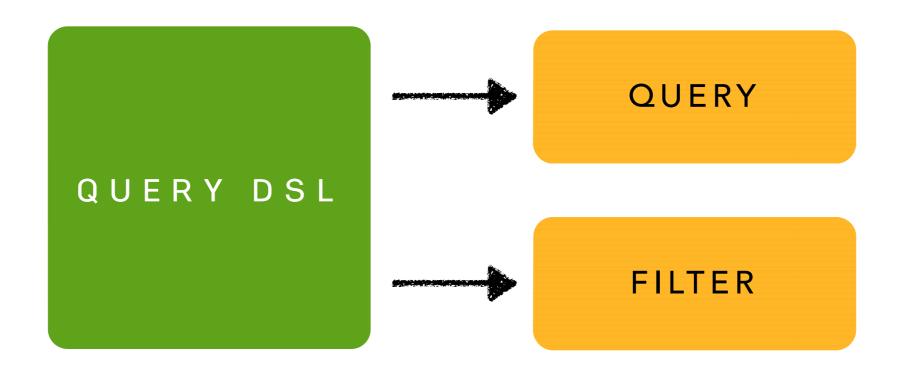
#### Search data :: Filtered

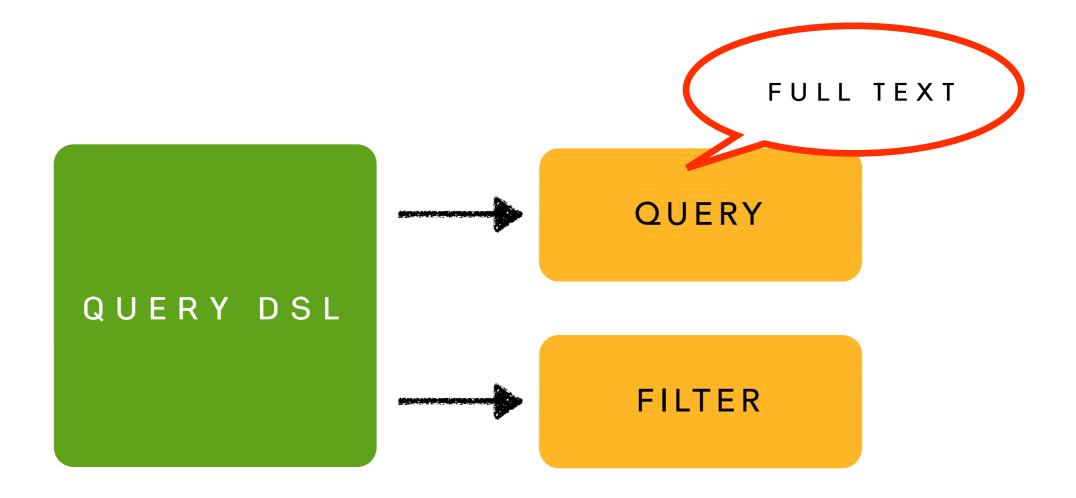
```
GET /store/book/_search
 "query": {
   "filtered": {
    "filter": {
     "term": {
       "title": "elasticsearch"
    },
    "query": {
     "term": {
       "published_date": "2015-01-16"
}}}}
```

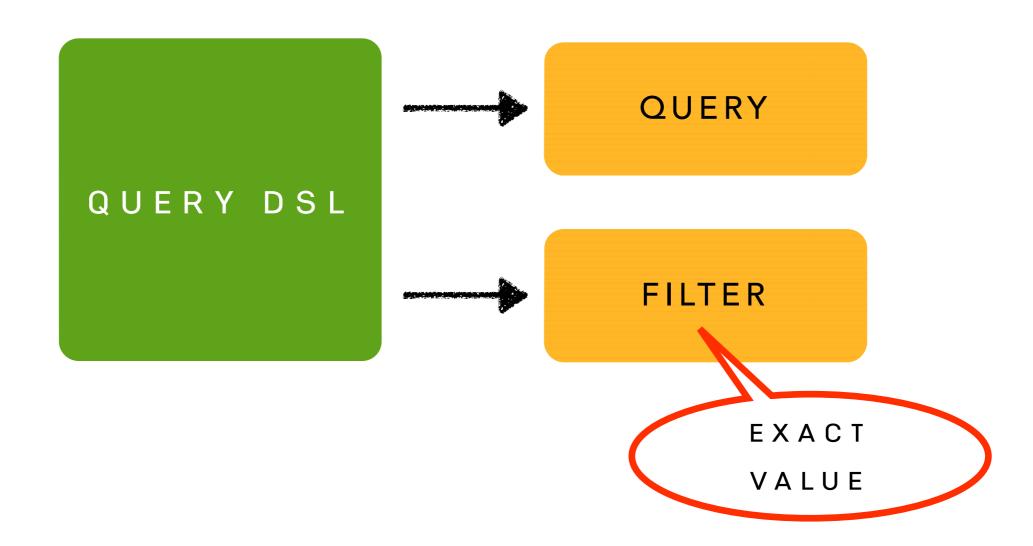
http://www.elasticsearch.org/guide/en/elasticsearch/reference/current/query-dsl-filtered-query.html

#### Search data :: Filtered

```
GET /store/book/_search
 "query": {
  "filtered": {
    "filter": {
     "term": {
      "title": "elasticsearch"
    },
    "query": {
     "term": {
      "published_date": "2015-01-16"
}}}
```







QUERY

- Can't caching
- Relevant
- Required memory !!

FILTER

- Easy to caching
- Quick to calculate
- Reusable

### Pagination

```
GET /store/book/_search
{
   "from": 0,
   "size": 2
}
```

### Sorting

```
GET /store/book/_search
"sort": [
    "published_date": {
     "order": "desc"
```

### Multiple Sorting

```
GET /store/book/_search
"sort": [
    "published_date": {
     "order": "desc"
```

### Workshop

Search all together!!

#### What's next?

