




elasticsearch
for developer

Search DSL

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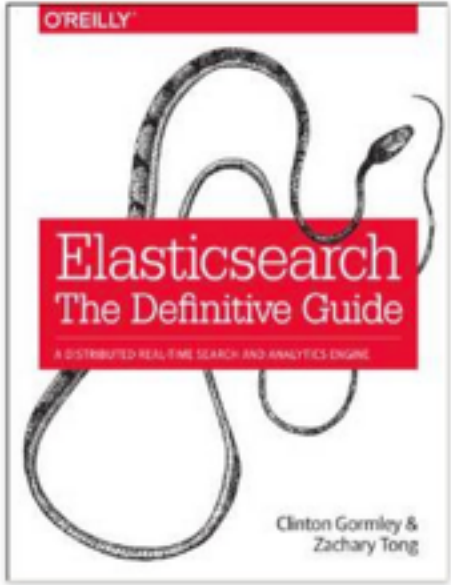
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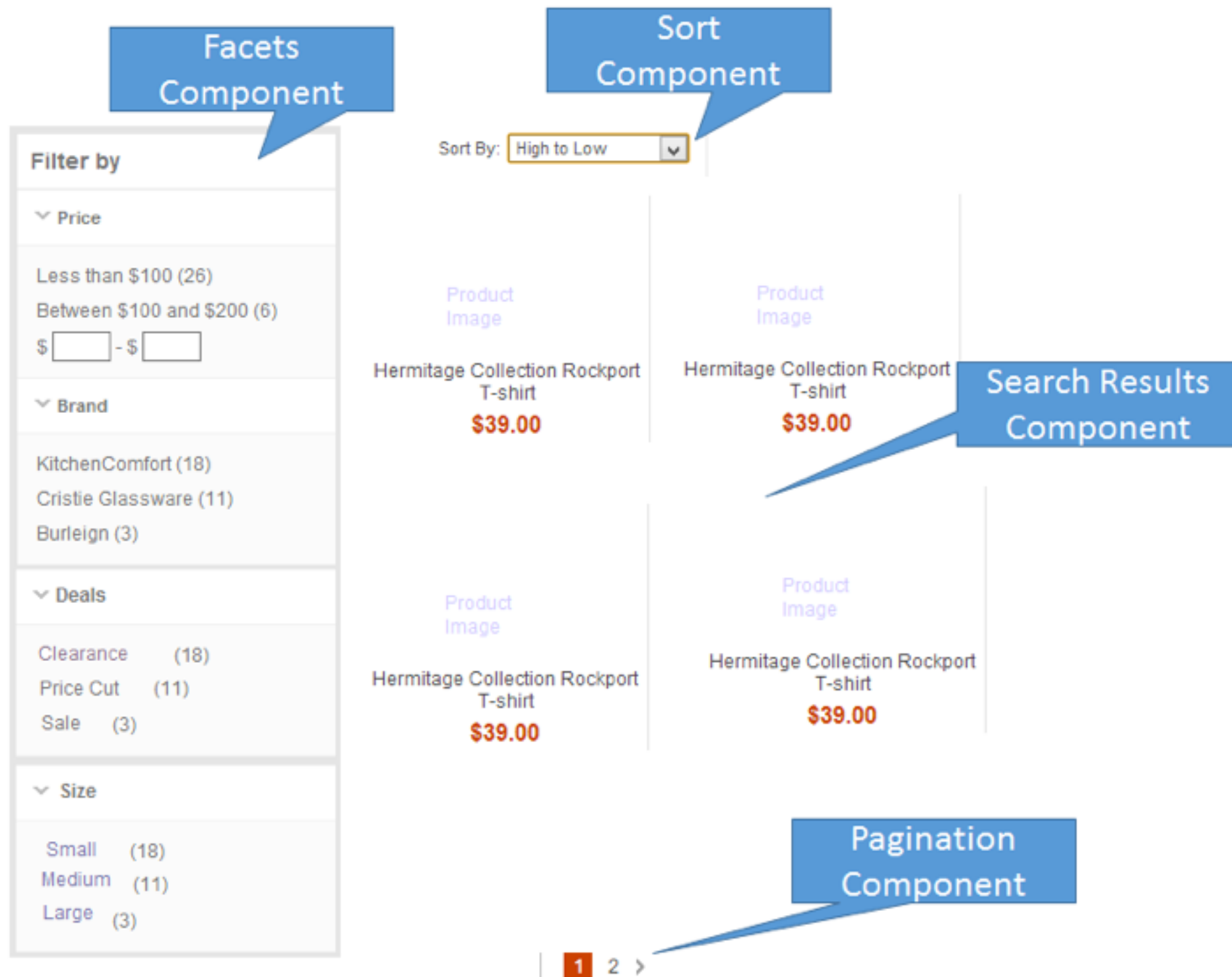
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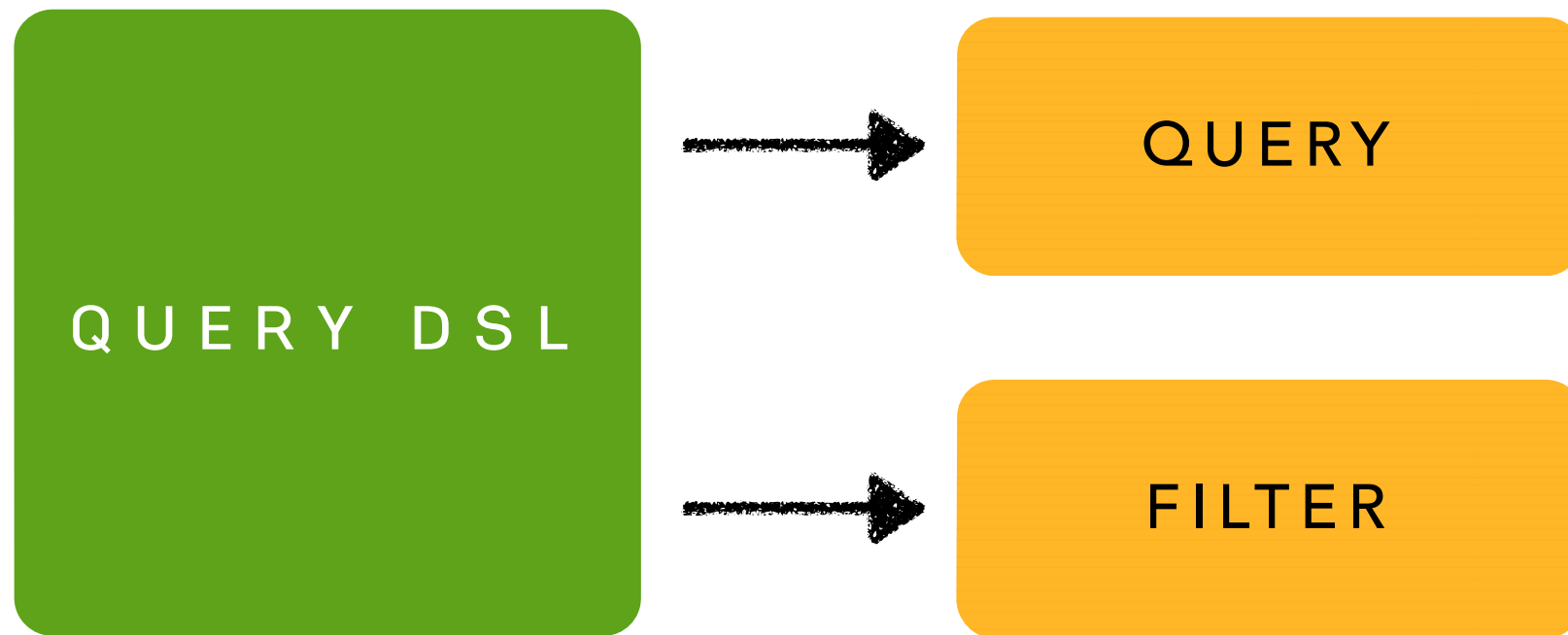
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Analysis



Query DSL



http://www.elasticsearch.org/guide/en/elasticsearch/guide/current/_queries_and_filters.html

Query DSL

Queries

match query

term query

terms query

multi match query

query string query

prefix query

wildcard query

range query

bool query

<http://www.elasticsearch.org/guide/en/elasticsearch/reference/current/query-dsl-queries.html>

Query DSL

Filters

query filter

term filter

terms filter

missing filter

range filter

or filter

and filter

exists filter

not filter

prefix filter

bool filter

<http://www.elasticsearch.org/guide/en/elasticsearch/reference/current/query-dsl-filters.html>

Let's Start !

Preparing index

DELETE /store

PUT /store

My Book

Name	Type	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**

}

Term query

```
GET /store/book/_search

{
  "query": {
    "term": {
      "title": {
        "value": "elasticsearch"
      }
    }
  }
}
```

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

Terms query

```
GET /store/book/_search
{
  "query": {
    "terms": {
      "title": ["search","the"],
      "minimum_should_match": 1
    }
  }
}
```

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

Match query

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

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

Multi match query

GET /store/book/_search

```
{  
  "query": {  
    "multi_match": {  
      "query": "nosql",  
      "fields": [  
        "title",  
        "long_description"  
      ]  
    }  
  }  
}
```


Query string

```
GET /store/book/_search
```

```
{
```

```
  "query": {
```

```
    "query_string": {
```

```
      "default_field": "title",
```

```
      "query": "elasticsearch AND book OR lucene"
```

```
    }
```

```
  }
```

```
}
```

Range query

GET /store/book/_search

```
{  
  "query": {  
    "range": {  
      "price": {  
        "gte": 10,  
        "lte": 21  
      }  
    }  
  }  
}
```

<http://www.elasticsearch.org/guide/en/elasticsearch/reference/current/query-dsl-range-query.html>

Bool query

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

Filters

GET /store/book/_search

```
{  
  "query": {  
    "filtered": {  
      "filter": {  
        "term": {  
          "title": "elasticsearch"  
        }  
      },  
      "query": {  
        "term": {  
          "published_date": "2015-01-16"  
        }  
      }  
    }  
  }  
}
```

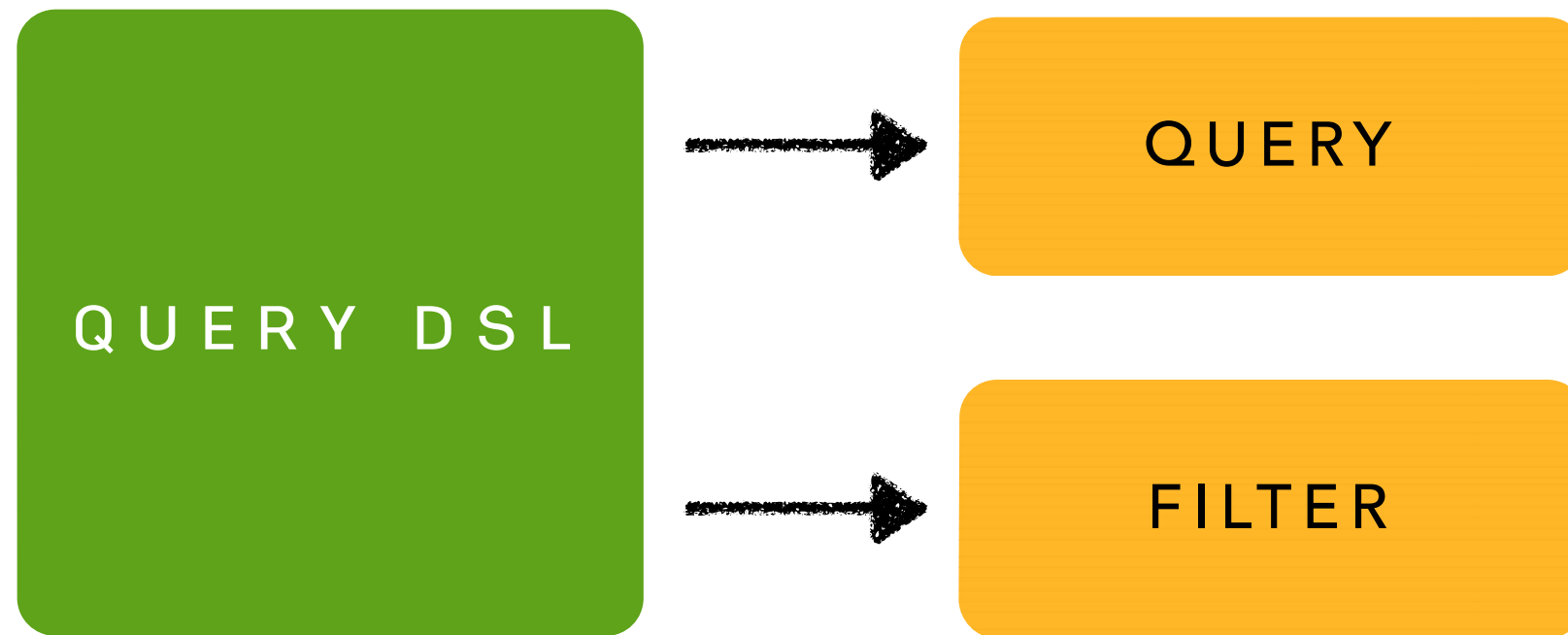
<http://www.elasticsearch.org/guide/en/elasticsearch/reference/current/query-dsl-filtered-query.html>

Search data :: Filtered

GET /store/book/_search

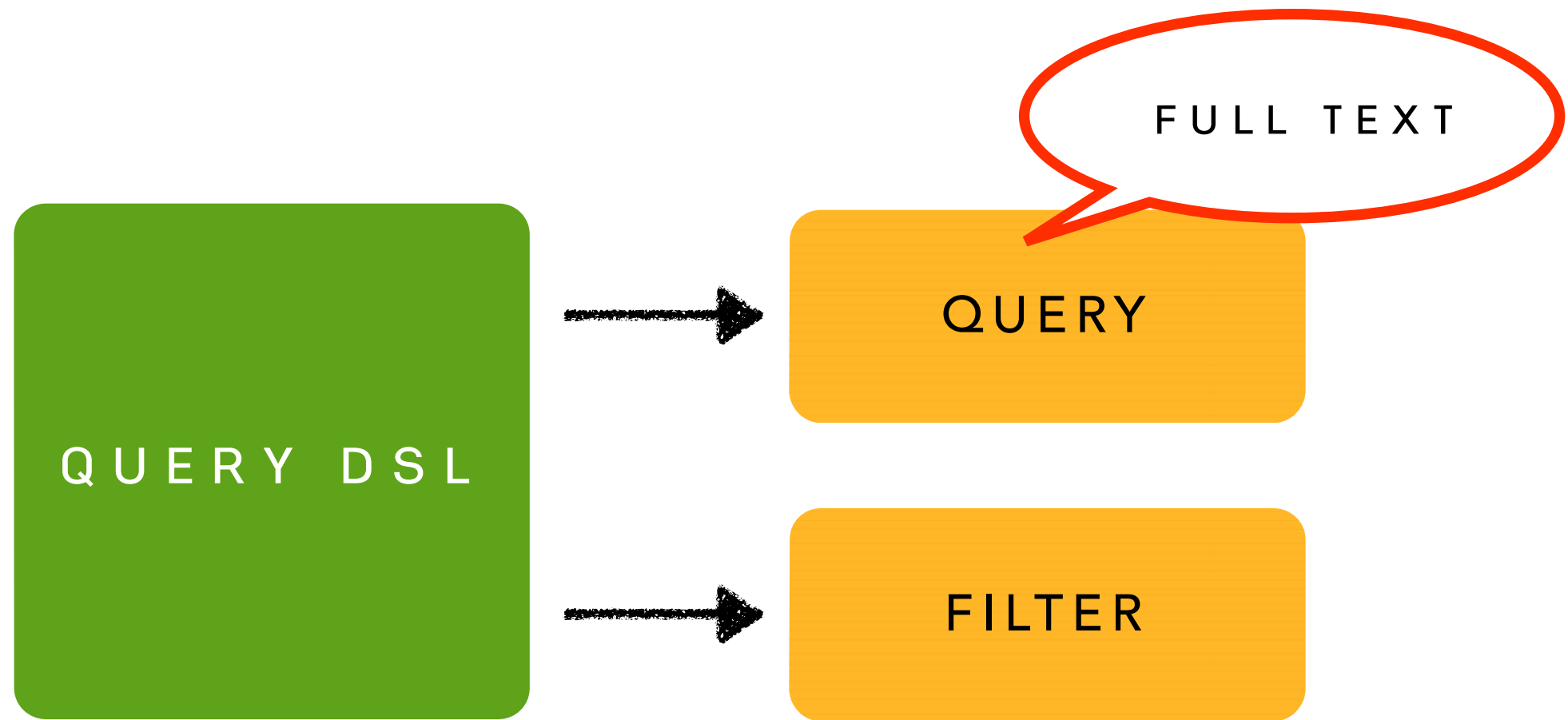
```
{  
  "query": {  
    "filtered": {  
      "filter": {  
        "term": {  
          "title": "elasticsearch"  
        }  
      },  
      "query": {  
        "term": {  
          "published_date": "2015-01-16"  
        }  
      }  
    }  
  }  
}
```

Query vs. Filter



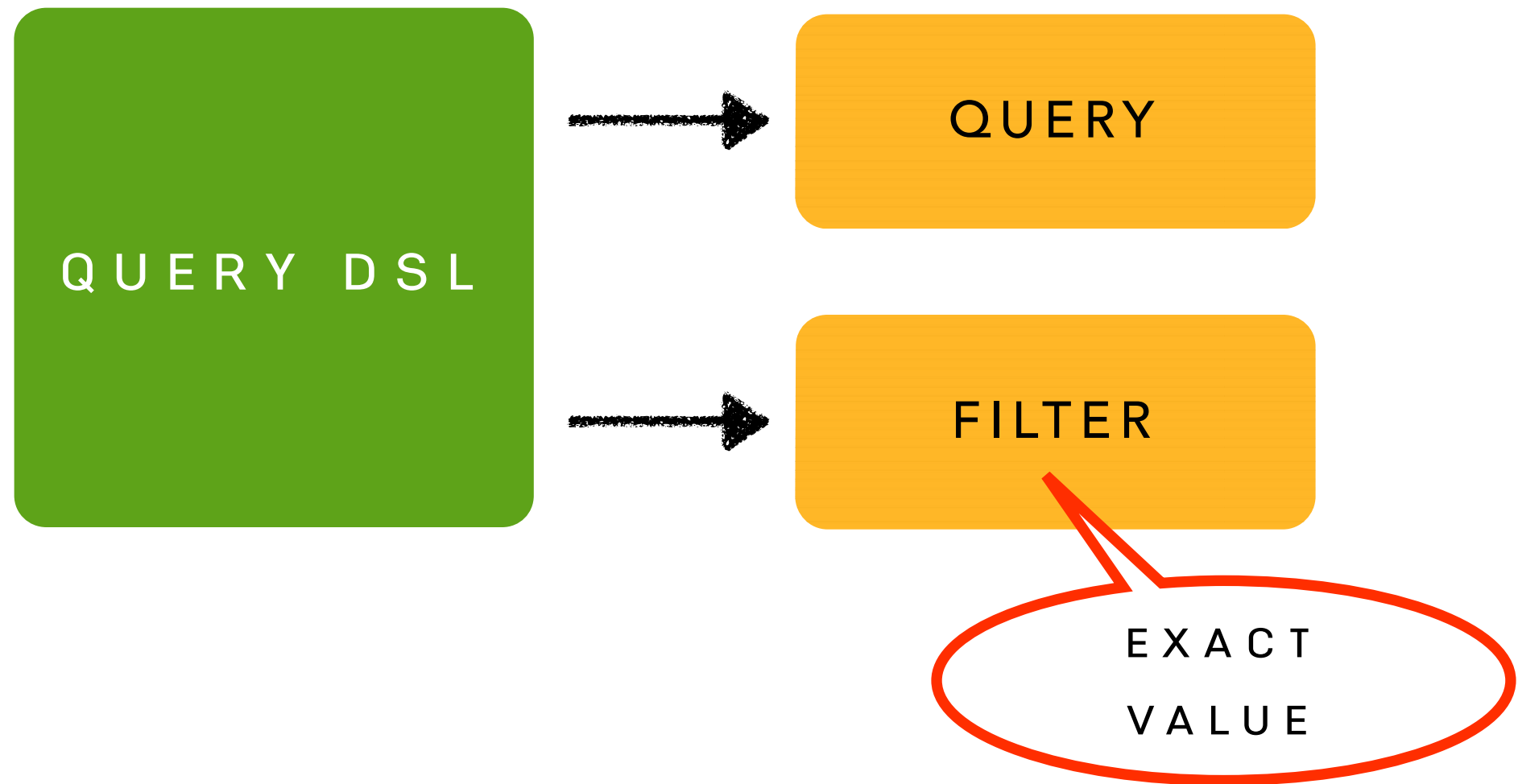
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Query vs. Filter



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Query vs. Filter



http://www.elasticsearch.org/guide/en/elasticsearch/guide/current/_queries_and_filters.html

Query vs. Filter

QUERY

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

FILTER

- Easy to caching
- Quick to calculate
- Reusable

http://www.elasticsearch.org/guide/en/elasticsearch/guide/current/_queries_and_filters.html

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"
      }
    }
  ]
}
```

http://www.elasticsearch.org/guide/en/elasticsearch/guide/current/_sorting.html

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