

### term 不分词，匹配keyword类型

```
get /es_db/_search
{
  "query": {
    "term": {
      "address": {
        "value": "重
庆"
      }
    }
  }
}
```

### query\_string 组合关键字

```
get /es_db/_search
{
  "query": {
    "query_string": {
      "query": "张三 OR 李四"
    }
  }
}
```

### wildcard 通配符查询

```
GET twitter/_search
{
  "query": {
    "wildcard": {
      "keyword": {
        "value": "*
海"
      }
    }
  }
}
```

### fuzzy 模糊查询

```
get /es_db/_search
{
  "query": {
    "fuzzy": {
      "address": {
        "value": "白云山",
        "fuzziness": 1
      }
    }
  }
}
```

- 允许不完全匹配，比如错别字，多字，少字

- fuzziness：设置误差范围，允许0-2之间

### ids 单个索引，匹配多个id

```
get /twitter/_search
{
  "query": {
    "ids": {
      "values": [1, 2]
    }
  }
}
```

### multi\_match 匹配多个字段

```
get /es_db/_search
{
  "query": {
    "multi_match": {
      "query": "重庆",
      "fields": ["address", "name"]
    }
  }
}
```

### match 拆词，匹配后按分数排序

```
get /es_db/_search
{
  "query": {
    "match": {
      "address": "重庆市南岸区",
      "operator": "and"
    }
  }
}
```

- 先对关键字进行分词，然后按分词进行查询

- 按匹配度从大到小排序

- 分词之前默认匹配关系为or

### simple\_query\_string 简单版组合关键字

```
get /es_db/_search
{
  "query": {
    "simple_query_string": {
      "query": "张三 + 李四"
    }
  }
}
```

### range 范围查询

```
GET twitter/_search
{
  "query": {
    "range": {
      "age": {
        "gte": 30,
        "lte": 40
      }
    }
  }
}
```

### match\_phrase 严格匹配

```
get /es_db/_search
{
  "query": {
    "match_phrase": {
      "address": "广州白云山"
    }
  }
}
```

### 根据id批量查询(同时搜索多个索引)

```
get _mget
{
  "docs": [
    { "_index": "es_db",
      "_id": 3 },
    { "_index": "article",
      "_id": 1 }
  ]
}
```

### \_msearch 同时搜索多个索引

```
get /_msearch
{"index": "es_db"}
{"query": {"match_all": {}},
 "from": 0, "size": 2}
{"index": "article"}
{"query": {"match": {"title": "fox"}}
```

### 复合查询

**must** 子句必须在文档中匹配。正匹配有助于提高相关性分数。

**should** 不强制要求必须匹配。但是，如果匹配，相关性得分就会提高。

**must\_not** 条件不得与文档匹配。该子句不会对分数做出贡献（它在过滤上下文执行上下文中运行）

### 复合查询 (cont)

**filter** 条件必须与文档匹配，类似于 must 子句。该子句不会对分数做出贡献（它在过滤上下文执行上下文中运行）

### bool 组合查询

```
POST _search
{
  "query": {
    "bool": {
      "must": {
        "term": { "user": "kimchy" }
      },
      "filter": {
        "term": { "tag": "tech" }
      },
      "must_not": {
        "range": {
          "age": {
            "gte": 10, "lte": 20 }
          }
        },
      "should": [
        { "term": { "tag": "wow" } },
        { "term": { "tag": "elasticsearch" } }
      ]
    }
  },
  "minimum_should_match": 1,
  "boost": 1.0
}
```

### 聚合

**terms** 指定分组字段

**range** 指定边界值进行分组，可以按数字，按日期

**date\_histogram** 按时间频率分组

**filter** 指定过滤条件分组

### terms 按字段分组

```
GET twitter/_search
{
  "size": 0,
  "aggs": {
    "city": {
      "terms": {
        "field": "city",
        "size": 10
      }
    }
  }
}
```

### 多个filter分组统计，按filter分组

```
GET twitter/_search
{
  "size": 0,
  "aggs": {
    "by_cities": {
      "filters": {
        "filters": {
          "beijing": {
            "match": "北京"
          },
          "shanghai": {

```

### 多个filter分组统计，按filter分组 (cont)

```
>   "match": {
      "city": "上海"
    }
  }
}
}
```

### range 按给定边界值进行分组

```
GET twitter/_search
{
  "size": 0,
  "aggs": {
    "age": {
      "range": {
        "field": "age",
        "ranges": [
          {
            "from": 20,
            "to": 22
          },
          ...
        ]
      }
    }
  }
}
```

### cardinality 去重统计

```
GET twitter/_search
{
  "size": 0,
  "aggs": {
    "number_of_cities": {
      "cardinality": {
        "field": "city"
      }
    }
  }
}
```

