term 不分词，匹配keyword类型

```
get /es_db/_search
{
    " que ry":{
        " ter m": {
            " add res s": {
                " val ue": " 重庆"
            }
        }
    }
}
```

query_string 组合关键字

```
get /es_db/_search
{
" que ry":{
" que ry_ str ing ":{
" que ry": "张三 OR 李四"
}
}
}
```

wildcard 通配符查询

```
GET twitter/_search
{
    " que ry": {
        " wil dca rd": {
            " cit y.k eyw -ord ": {
                " val ue": " *海"
            }
        }
    }
}
```

fuzzy 模糊查询

```
get /es_db/_search
{
" que ry":{
" fuz zy":{
" add res s":{
" val ue": " 白云山 ",
" fuz zin ess ": 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
{
" que ry":{
" ids ":{
" val ues ":[1, 2]
}
}
}
```

multi_match 匹配多个字段

```
get /es_db/_search
{
" que ry":{
" mul ti_ mat ch":{
" que ry": " 重庆",
" fie lds " :["a ddr ess ", " -nam e"]
}
}
}
```

match 拆词，匹配后按分数排序

```
get /es_db/_search
{
    " que ry":{
        " mat ch": {
            " add res s": " 重庆市 南岸区 ",
            " ope rat or": " -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
{
" que ry":{
" sim ple _qu ery _st rin g":{
" que ry": "张三 + 李四"
}
}
}
```

range 范围查询

```
GET twitter/_search
{
    " que ry": {
        " ran ge": {
            " age ": {
                " gte ": 30,
                " lte ": 40
            }
        }
    }
}
```


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match_phrase 严格匹配

```
get /es_db/_search
{
" que ry": {
" mat ch_ phr ase ":{
" add res s": " 广州白 云山"
}
}
}
```

根据id批量查询 (同时搜索多个索引)

```
get _mget
{
    " doc s":[
        {"_i nde x":"e s_d b",
" _id ":3},
        {"_i nde x":"a rti -
cle ", " _id ":1}
   ]
}
```

_msearch 同时搜索多个索引

```
get /_msearch
{"in dex " :"es _db "}
{"qu ery " :{"m atc h_a ll":{}},
" fro m":0, " siz e": 2}
{"in dex " :"ar tic le"}
{"qu ery " :{"m atc h":{ " tit -
le": " 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
{
    " que ry": {
        " boo l" : {
            " mus t" : {
                " ter m" : { " -
use r" : " kim chy " }
            },
            " fil ter ": {
                " ter m" : { " -
tag " : " tec h" }
            },
            " mus t_n ot" : {
                " ran ge" : {
                    " age " : {
" gte " : 10, " lte " : 20 }
                }
            },
            " sho uld " : [
                { " ter m" : {
" tag " : " wow " } },
                { " ter m" : {
" tag " : " ela sti cse arc h" }
}
            ],
            " min imu m_s hou -
ld_ mat ch" : 1,
            " boo st" : 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_hist-ogram	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
{
    " siz e": 0,
    " agg s": {
        " cit y": {
            " ter ms": {
                " fie ld": " -
cit y",
                " siz e": 10
            }
        }
    }
}
```

多个filter分组统计，按filter分组

```
GET twitter/_search
{
    " siz e": 0,
    " agg s": {
        " by_ cit ies ": {
            " fil ter s": {
                " fil ter s": {
                    " bei jin -
g": {
                        " mat -
ch": {
                            " -
cit y": " 北京"
                        }
                    },
                    " sha ngh -
ai": {
```


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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
{
    " siz e": 0,
    " agg s": {
        " age ": {
            " ran ge": {
                " fie ld": " -
age ",
                " ran ges ": [
                    {
                        " fro -
m": 20,
                        " to":
22
                    },
                    ...
                ]
            }
        }
    }
}
```

cardinality 去重统计

```
GET twitter/_search
{
    " siz e": 0,
    " agg s": {
        " num ber _of _ci tie -
s": {
            " car din ali ty": {
                " fie ld": " -
cit y"
            }
        }
    }
}
```


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