#### 1 查看es中有哪些索引

|  |
| --- |
| GET /\_cat/indices?v |

es 中会默认存在一个名为.kibana的索引

表头的含义

|  |  |
| --- | --- |
| health | green(集群完整) yellow(单点正常、集群不完整) red(单点不正常) |
| status | 是否能使用 |
| index | 索引名 |
| uuid | 索引统一编号 |
| pri | 主节点几个 |
| rep | 从节点几个 |
| docs.count | 文档数 |
| docs.deleted | 文档被删了多少 |
| store.size | 整体占空间大小 |
| pri.store.size | 主节点占 |

#### 2 增加一个索引

|  |
| --- |
| PUT /movie\_index |

#### 3 删除一个索引

ES 是不删除也不修改任何数据的，而是增加版本号

|  |
| --- |
| DELETE /movie\_index |

#### 4. 新增文档

1）格式 PUT /index/type/id

|  |
| --- |
| PUT /movie\_index/movie/1  { "id":1,  "name":"operation red sea",  "doubanScore":8.5,  "actorList":[  {"id":1,"name":"zhang yi"},  {"id":2,"name":"hai qing"},  {"id":3,"name":"zhang han yu"}  ]  }  PUT /movie\_index/movie/2  {  "id":2,  "name":"operation meigong river",  "doubanScore":8.0,  "actorList":[  {"id":3,"name":"zhang han yu"}  ]  }  PUT /movie\_index/movie/3  {  "id":3,  "name":"incident red sea",  "doubanScore":5.0,  "actorList":[  {"id":4,"name":"zhang chen"}  ]  } |

如果之前没建过index或者type，es 会自动创建。

#### 5 直接用id查找

|  |
| --- |
| GET movie\_index/movie/1 |

#### 6 修改—整体替换

|  |
| --- |
| PUT /movie\_index/movie/3  {  "id":"3",  "name":"incident red sea",  "doubanScore":"5.0",  "actorList":[  {"id":"1","name":"zhang chen"}  ]  } |

#### 7 修改—某个字段

|  |
| --- |
| POST movie\_index/movie/3/\_update  {  "doc": {  "doubanScore":"7.0"  }  } |

#### 8 删除一个document

|  |
| --- |
| DELETE movie\_index/movie/3 |

#### 9 搜索type全部数据

|  |
| --- |
| GET movie\_index/movie/\_search |

结果

|  |
| --- |
| {  "took": 2, //耗费时间 毫秒  "timed\_out": false, //是否超时  "\_shards": {  "total": 5, //发送给全部5个分片  "successful": 5,  "skipped": 0,  "failed": 0  },  "hits": {  "total": 3, //命中3条数据  "max\_score": 1, //最大评分  "hits": [ // 结果  {  "\_index": "movie\_index",  "\_type": "movie",  "\_id": 2,  "\_score": 1,  "\_source": {  "id": "2",  "name": "operation meigong river",  "doubanScore": 8.0,  "actorList": [  {  "id": "1",  "name": "zhang han yu"  }  ]  }  。。。。。。。。  。。。。。。。。  } |

#### 10 按条件查询(全部)

|  |
| --- |
| GET movie\_index/movie/\_search  {  "query":{  "match\_all": {}  }  } |

#### 11 按分词查询

|  |
| --- |
| GET movie\_index/movie/\_search  {  "query":{  "match": {"name":"red"}  }  } |

#### 12 按分词子属性查询

|  |
| --- |
| GET movie\_index/movie/\_search  {  "query":{  "match": {"actorList.name":"zhang"}  }  } |

#### 13 match\_phrase

|  |
| --- |
| GET movie\_index/movie/\_search  {  "query":{  "match\_phrase": {"name":"operation red"}  }  } |

按短语查询，不再利用分词技术，直接用短语在原始数据中匹配

#### 14 fuzzy查询

|  |
| --- |
| GET movie\_index/movie/\_search  {  "query":{  "fuzzy": {"name":"rad"}  }  } |

校正匹配分词，当一个单词都无法准确匹配，es通过一种算法对非常接近的单词也给与一定的评分，能够查询出来，但是消耗更多的性能。

#### 15 过滤--查询后过滤

|  |
| --- |
| GET movie\_index/movie/\_search  {  "query":{  "match": {"name":"red"}  },  "post\_filter":{  "term": {  "actorList.id": 3  }  }  } |

#### 16 过滤--查询前过滤（推荐使用）

|  |
| --- |
| GET movie\_index/movie/\_search  {  "query":{  "bool":{  "filter":[ {"term": { "actorList.id": "1" }},  {"term": { "actorList.id": "3" }}  ],  "must":{"match":{"name":"red"}}  }  }  } |

#### 17 过滤--按范围过滤

|  |
| --- |
| GET movie\_index/movie/\_search  {  "query": {  "bool": {  "filter": {  "range": {  "doubanScore": {"gte": 8}  }  }  }  }  } |

关于范围操作符：

|  |  |
| --- | --- |
| gt | 大于 |
| lt | 小于 |
| gte | 大于等于 great than or equals |
| lte | 小于等于 less than or equals |

#### 18 排序

|  |
| --- |
| GET movie\_index/movie/\_search  {  "query":{  "match": {"name":"red sea"}  }  , "sort": [  {  "doubanScore": {  "order": "desc"  }  }  ]  } |

#### 19 分页查询

|  |
| --- |
| GET movie\_index/movie/\_search  {  "query": { "match\_all": {} },  "from": 1,  "size": 1  } |

#### 20 指定查询的字段

|  |
| --- |
| GET movie\_index/movie/\_search  {  "query": { "match\_all": {} },  "\_source": ["name", "doubanScore"]  } |

#### 21 高亮

|  |
| --- |
| GET movie\_index/movie/\_search  {  "query":{  "match": {"name":"red sea"}  },  "highlight": {  "fields": {"name":{} }  }    } |

#### 22 聚合

取出每个演员共参演了多少部电影

|  |
| --- |
| GET movie\_index/movie/\_search  {  "aggs": {  "groupby\_actor": {  "terms": {  "field": "actorList.name.keyword"  }  }  }  } |

每个演员参演电影的平均分是多少，并按评分排序

|  |
| --- |
| GET movie\_index/movie/\_search  {  "aggs": {  "groupby\_actor\_id": {  "terms": {  "field": "actorList.name.keyword" ,  "order": {  "avg\_score": "desc"  }  },  "aggs": {  "avg\_score":{  "avg": {  "field": "doubanScore"  }  }  }  }  }  } |