

## 23种非常实用的ElasticSearch查询例子(2)

本系列文章将展示ElasticSearch中23种非常实用的查询使用方法。由于篇幅原因，本系列文章分为六篇，

本文是此系列的第二篇文章。欢迎关注大数据技术博客微信公共账号:iteblog\_hadoop。

[《23种非常实用的ElasticSearch查询例子\(1\)》](#)

[《23种非常实用的ElasticSearch查询例子\(2\)》](#)

[《23种非常实用的ElasticSearch查询例子\(3\)》](#)

[《23种非常实用的ElasticSearch查询例子\(4\)》](#)

[《23种非常实用的ElasticSearch查询例子\(5\)》](#)

[《23种非常实用的ElasticSearch查询例子\(6\)》](#)

### Fuzzy Queries ( 模糊查询 )

模糊查询可以在Match和 Multi-Match查询中使用以便解决拼写的错误，模糊度是基于Levenshtein distance计算与原单词的距离。使用如下：

```
curl -XGET 'https://www.iteblog.com:9200/iteblog_book_index/book/_search' -d '{
  "query": {
    "multi_match": {
      "query": "comprehensive guide",
      "fields": ["title", "summary"],
      "fuzziness": "AUTO"
    }
  },
  "_source": ["title", "summary", "publish_date"],
  "size": 1
}'
```

[返回结果]

```
{
  "took": 208,
  "timed_out": false,
  "_shards": {
    "total": 1,
    "successful": 1,
    "failed": 0
  },
```

```
"hits": {
  "total": 2,
  "max_score": 0.5961596,
  "hits": [
    {
      "_index": "iteblog_book_index",
      "_type": "book",
      "_id": "4",
      "_score": 0.5961596,
      "_source": {
        "summary": "Comprehensive guide to implementing a scalable search engine using Apache Solr",
        "title": "Solr in Action",
        "publish_date": "2014-04-05"
      }
    }
  ]
}
```

#### 需要注意

：上面我们将fuzziness的值指定为AUTO，其在term的长度大于5的时候相当于指定值为2。然而80%的人拼写错误的编辑距离(edit distance)为1，所有如果你将fuzziness设置为1可能会提高你的搜索性能。具体的可以参考Elasticsearch权威指南相关章节。

## Wildcard Query(通配符查询)

通配符查询允许我们指定一个模式来匹配，而不需要指定完整的term。?将会匹配任何字符；\*将会匹配零个或者多个字符。比如我们想查找所有作者名字中以t字符开始的记录，我们可以如下使用：



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```
curl -XGET 'https://www.iteblog.com:9200/iteblog_book_index/book/_search' -d '{
  "query": {
    "wildcard": {
      "authors": "t*"
    }
  },
  "_source": ["title", "authors"],
  "highlight": {
    "fields": {
      "authors": {}
    }
  }
}'
```

[返回结果]

```
{
  "took": 37,
  "timed_out": false,
  "_shards": {
    "total": 1,
    "successful": 1,
    "failed": 0
  },
  "hits": {
    "total": 3,
    "max_score": 1,
```

```
"hits": [
  {
    "_index": "iteblog_book_index",
    "_type": "book",
    "_id": "1",
    "_score": 1,
    "_source": {
      "authors": [
        "clinton gormley",
        "zachary tong"
      ],
      "title": "Elasticsearch: The Definitive Guide"
    },
    "highlight": {
      "authors": [
        "zachary <em>tong</em>"
      ]
    }
  },
  {
    "_index": "iteblog_book_index",
    "_type": "book",
    "_id": "2",
    "_score": 1,
    "_source": {
      "authors": [
        "grant ingersoll",
        "thomas morton",
        "drew farris"
      ],
      "title": "Taming Text: How to Find, Organize, and Manipulate It"
    },
    "highlight": {
      "authors": [
        "<em>thomas</em> morton"
      ]
    }
  },
  {
    "_index": "iteblog_book_index",
    "_type": "book",
    "_id": "4",
    "_score": 1,
    "_source": {
      "authors": [
        "trey grainger",
```

```

        "timothy potter"
      ],
      "title": "Solr in Action"
    },
    "highlight": {
      "authors": [
        "<em>trey</em> grainger",
        "<em>timothy</em> potter"
      ]
    }
  }
}
}
}
}

```

## Regex Query(正则表达式查询)

ElasticSearch还支持正则表达式查询，此方式提供了比通配符查询更加复杂的模式。比如我们先查找作者名字以t字符开头，中间是若干个a-z之间的字符，并且以字符y结束的记录，可以如下查询：

```

curl -XGET 'https://www.iteblog.com:9200/iteblog_book_index/book/_search' -d '
{
  "query": {
    "regexp": {
      "authors": "t[a-z]*y"
    }
  },
  "_source": ["title", "authors"],
  "highlight": {
    "fields": {
      "authors": {}
    }
  }
}'

{
  "took": 25,
  "timed_out": false,
  "_shards": {
    "total": 1,
    "successful": 1,
    "failed": 0
  }
}

```

```
{
  "hits": {
    "total": 1,
    "max_score": 1,
    "hits": [
      {
        "_index": "iteblog_book_index",
        "_type": "book",
        "_id": "4",
        "_score": 1,
        "_source": {
          "authors": [
            "trey grainger",
            "timothy potter"
          ],
          "title": "Solr in Action"
        },
        "highlight": {
          "authors": [
            "<em>trey</em> grainger",
            "<em>timothy</em> potter"
          ]
        }
      }
    ]
  }
}
```

限于篇幅的原因，本系列文章分为六部分，欢迎关注过往记忆大数据技术博客及时了解大数据相关文章，微信公共账号：iteblog\_hadoop。

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