



链滴

深入理解 Match Phrase Prefix Query

作者: [felayman](#)

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Match Phrase Prefix Query

<blockquote>

<p>国内对于 Elasticsearch 深入的人并不多,或者大多数大牛不屑于分享关于 Elasticsearch 的知识,里讲讲 Elasticsearch 中的 Constant Score Query</p>

</blockquote>

关于

官方文档:官方文档

ApacheCN : 中文文档

概念

```
<code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">match_phrase_prefix与match_phrase相同,但是它多了一个特性,就是它允许在文本的最后一项(term)上的前缀匹配,如果
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">是一个单词,比如a,会匹配文档字段所有以a开头的文档,如果是一个短语,比如 "this is ma",则它会先进行match_phrase查询,找出
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">所有包含短语"this is"的文档,然后在这些匹配的文档中找出所有以"ma"为前缀的文档.
```

```
</span></span></code></pre>
```

语法

```
<code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">POST /my_index/my_type/_search
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">{
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">  "query": {
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">    "match_phrase_prefix": {
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">      "title": {
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">        "query": "this is r",
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">        "analyzer": "standard",
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">        "max_expansions": 10,
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">        "slop":2,
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">        "boost":100
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">      }
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">    }
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">  }
```

```
</span></span></code></pre>
```

<p>参数说明</p>

analyzer 指定何种分析器来对该短语进行分词处理

max_expansions 控制最大的返回结果

boost 用于设置该查询的权重

slop 允许短语间的词项(term)间隔

<p>一般来说,match_phrase_prefix 可以实现比较粗糙的自动建议(Suggest).</p>

Java API

```

<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> @Test
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> public void test(
throws Exception {
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> String key =
this is a";
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> MatchPhrase
refixQueryBuilder matchPhrasePrefixQueryBuilder = QueryBuilders.matchPhrasePrefixQuery("t
tle",key);
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> matchPhrase
refixQueryBuilder.boost(10);
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> matchPhrase
refixQueryBuilder.analyzer("standard");
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> matchPhrase
refixQueryBuilder.slop(2);
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> matchPhrase
refixQueryBuilder.maxExpansions(100);
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> SearchRespo
se searchResponse = client.prepareSearch()
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> .setIndic
s("my_index")
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> .setType
("my_type")
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> .setQuer
(matchPhrasePrefixQueryBuilder)
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> .execute
)
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> .actionG
t());
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> System.out.pr
ntln(ResponseUtil.parse(searchResponse));
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> }
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> </code> </pre>

```

<p>更多关于 Java API,请参考:MatchPhrasePrefixQueryDemo </p>

<h2 id="参考">参考</h2>

 Match Phrase Query

 Common Terms Query

