

Elasticsearch Syntax - Cheat Sheet

Basic ES Boolean Query

```
'query': {  
  'bool': {  
    'should': [], -> OR over all the clauses included in the list  
    'must': [], -> AND over all the clauses included in the list  
    'must_not': [], -> Exclude decisions which match all the clauses included in the list  
    'filter': [] -> Add user filters here  
  }  
}
```

Keyword - Word - Exact match single word

```
{  
  'span_term': {  
    'content.body': Lower case word  
  }  
}
```

Wildcard (*)

```
{  
  'span_multi': {  
    'match': {  
      'wildcard': {  
        'content.body': wild_card_phrase  
      }  
    }  
  }  
}
```

Root Expander (!)

```
{
  'span_multi': {
    'match': {
      'prefix': {
        'content.body': phrase_prefix_no_!
      }
    }
  }
}
```

Proximity Operators

```
{
  'span_near': {
    'clauses': list of span queries (span_term,
span_multi, span_near),
    'slop': slop - # words that can appear in between,
    'in_order': boolean flag to maintain search order in the
    decision
  }
}
/# use the # for slop, /s is 25, /p is 75
```

Highlighting - Use at the query level

```
'highlight': {
  "pre_tags": [
    "<span class='keyword'>"
  ],
  "post_tags": [
    "</span>"
  ],
  'fields': {
    'content.body': {
```

```
'fragment_size': 500,  
'number_of_fragments': 1000,  
  
}  
}  
}
```

Sorting

```
'sort': [  
  {  
    es_field_name: {  
      'order': desc/asc  
    }  
  }  
]
```

Full text queries can be done using `match_phrase`, `match_phrase_prefix` in the boolean queries, but these can't be used for ordered span.

If ordered proximity operators needn't be supported, we can move to match queries, and explore nesting match query with `slop` within another match query with `slop`.

`span_term` currently needs input to be lower case, so convert words to lowercase before using.

`span_term` is also a single word/term query, so multiple words for exact match can be supported using `span_near` with `slop` set to 0 and `in_order` set to `True`.

`match_phrase` on the other hand can support multiple words in one string, where a default `slop` is set for those words.