

+ New chat

Elasticsearch Match an

Flexbox CSS Layout Example

Playfair Cipher Encryption Exa

Break String By Underscore

Remove Specific Characters P

Elasticsearch Document Crea

Fuzzy Matching Elasticsearch

Elasticsearch Wildcard Search

Elasticsearch Query String Se

Bulk API in Elasticsearch.

Autokey Cipher Explanation E

Elasticsearch Text Stemming

Clear conversations

Dark mode

OpenAI Discord

Updates & FAQ

Log out



explain match and multimatch in elasticsearch with example



In Elasticsearch, the "match" query is used to search for documents that match a specific text or phrase. For example, if you have a field called "title" in your documents, you can use the match query to search for all documents with a title containing the phrase "Elasticsearch tutorial". The query would look something like this:

Copy code

```
{
  "query": {
    "match": {
      "title": "Elasticsearch tutorial"
    }
  }
}
```

The "multi_match" query is similar to the match query, but it allows you to search for the same text or phrase in multiple fields at once. For example, if you have fields called "title" and "content" in your documents, you can use the multi_match query to search for all documents that have the phrase "Elasticsearch tutorial" in either the title or the content. The query would look something like this:

Copy code

```
{
  "query": {
    "multi_match": {
      "query": "Elasticsearch tutorial",
```

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It is important to note that the "match" and "multi_match" queries use the default operator "OR" to combine the different fields, meaning that documents will be returned if any of the fields match the query. To change this you can use operator parameter and set it to "and".



explain query dsl with example.



The Elasticsearch Query DSL (Domain Specific Language) is a powerful and flexible way to express queries in Elasticsearch. It allows you to search, filter, and aggregate the data stored in your Elasticsearch indices. The Query DSL is based on JSON and is composed of two main parts: the query clause and the filter clause.

The query clause is used to specify the text or phrase that you want to search for in your documents. For example, the following query will match all documents that contain the phrase "Elasticsearch tutorial" in the "title" field:

Copy code

```
{
  "query": {
    "match": {
      "title": "Elasticsearch tutorial"
    }
  }
}
```

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example, the following query will match all documents that contain the phrase "Elasticsearch tutorial" in the "title" field and have a "published" date that is after January 1st, 2020:

Copy code

```
{
  "query": {
    "bool": {
      "must": {
        "match": {
          "title": "Elasticsearch tutorial"
        }
      },
      "filter": {
        "range": {
          "published": {
            "gte": "2020-01-01"
          }
        }
      }
    }
  }
}
```

It is important to note that the filter clause does not affect the relevance score of the documents returned by the query, it only filters the matching documents.

You can chain multiple queries and filters together to create complex and powerful queries. Additionally, you can use various types of query and filter, such as term query, terms query, range query, and many more, to express a wide range of search and filter

scenarios.

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