Chapter 6 – Search APIs

Example Request - count_etf_list_bulk_indexed_doc

POST http://localhost:9200/cf_etf/_count

HEADERS
Content-Type
application/json

```
curl --location --request POST "http://localhost:9200/cf_etf/_count" --header
"Content-Type: application/json"
```

Example Request - search_within_cf_etf

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json"
```

Example Request - search_within_cf_etf_cf_view

POST http://localhost:9200/cf_etf,cf_view/_search

HEADERS
Content-Type
application/json

```
curl --location --request POST "http://localhost:9200/cf_etf,cf_view/_search" --header
"Content-Type: application/json"
```

Example Request - search_within_all_indices

POST http://localhost:9200/_search

HEADERS
Content-Type
application/json

```
curl --location --request POST "http://localhost:9200/_search" --header "Content-Type:
application/json"
```

Example Request - search_cf_etf_from_size_sort_source_false

POST http://localhost:9200/cf_etf/_search?from=2&size=2&sort=symbol:asc&_source=false

HEADERS
Content-Type
application/json

PARAMS
from
2
size
2
sort
symbol:asc
_source
false

```
curl --location --request POST
"http://localhost:9200/cf_etf/_search?from=2&size=2&sort=symbol:asc&_source=false" --
header "Content-Type: application/json"
```

Example Request - search_cf_etf_sort_score

POST http://localhost:9200/cf_etf/_search?q=fund_name:ishares edge global&from=2&size=2&sort=_score:asc

HEADERS
Content-Type
application/json

PARAMS
q
fund_name:ishares edge global
from
2
size
2
sort
_score:asc

```
curl --location --request POST
"http://localhost:9200/cf_etf/_search?q=fund_name:ishares%20edge%20global&from=2&size=
2&sort=_score:asc" --header "Content-Type: application/json"
```

Example Request - search_query_default_operator

POST search_query_default_operator

http://localhost:9200/cf_etf/_search?q=fund_name:ishares edge global&default_operator=AND

HEADERS
Content-Type
application/json

PARAMS
q
fund_name:ishares edge global
default_operator
AND

```
curl --location --request POST
"http://localhost:9200/cf_etf/_search?q=fund_name:ishares%20edge%20global&default_oper
ator=AND" --header "Content-Type: application/json"
```

Example Request - search_query_default_operator_explain

POST http://localhost:9200/cf_etf/_search?q=fund_name:ishares edge
global&default_operator=AND&explain=true

HEADERS
Content-Type
application/json

PARAMS
q
fund_name:ishares edge global
default_operator
AND
explain
true

```
curl --location --request POST
"http://localhost:9200/cf_etf/_search?q=fund_name:ishares%20edge%20global&default_oper
ator=AND&explain=true"  --header "Content-Type: application/json"
```

Example Request - search_query_keyword_analyzer

POST http://localhost:9200/cf_etf/_search?q=fund_name:ishares edge
global&default_operator=AND&analyzer=keyword

HEADERS
Content-Type
application/json

PARAMS
q
fund_name:ishares edge global
default_operator

AND
analyzer
keyword

```
curl --location --request POST
"http://localhost:9200/cf_etf/_search?q=fund_name:ishares%20edge%20global&default_oper
ator=AND&analyzer=keyword" --header "Content-Type: application/json" --data ""
```

Example Request - request_body_search_fund_name_w_3_words

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "query_string": {
                        "query": "fund_name:ishares edge global",
                        "default_operator": "AND"


                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"fund_name:ishares edge global\", \"default_operator\": \"AND\" } } }"
```

Example Request. - request_body_search_from_size_sort_source_false

POST request_body_search_from_size_sort_source_false
http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "from":2,
        "size":2,
        "sort":{"symbol":"asc"},
        "_source":false
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"from\":2, \"size\":2,
\"sort\":{\"symbol\":\"asc\"}, \"_source\":false }"
```

Example Request - request_body_search_sort_rating_symbol

HEADERS
Content-Type
application/json

BODY
```
{
     "query": {
          "query_string": {
               "query": "fund_name:ishares edge msci",
               "default_operator": "AND"

          }
     },
     "sort":{"rating":"desc", "symbol":"asc"}
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"fund_name:ishares edge msci\", \"default_operator\": \"AND\" } },
\"sort\":{\"rating\":\"desc\", \"symbol\":\"asc\"} }"
```

Example Request - search_query_scroll_1

POST http://localhost:9200/cf_etf/_search?scroll=10m

HEADERS
Content-Type
application/json

PARAMS
scroll
10m

BODY
```
{
     "size": 313
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search?scroll=10m" --
header "Content-Type: application/json" --data "{ \"size\": 313 }"
```

Example Request - search_query_scroll_2

POST http://localhost:9200/_search/scroll

HEADERS
Content-Type
application/json

BODY
```
{
        "scroll":"10m",
        "scroll_id": "DXF1ZXJ5QW5kRmV0Y2gBAAAAAAAANQWNWdUemoybmFSOUNvM3gwQkRZT0xBQQ=="
}
```

```
curl --location --request POST "http://localhost:9200/_search/scroll" --header
"Content-Type: application/json" --data "{ \"scroll\":\"10m\", \"scroll_id\":
\"DXF1ZXJ5QW5kRmV0Y2gBAAAAAAAANQWNWdUemoybmFSOUNvM3gwQkRZT0xBQQ==\" }"
```

Example Request - search_query_scroll_3
POST http://localhost:9200/_search/scroll

HEADERS
Content-Type
application/json

BODY
```
{
        "scroll":"10m",
        "scroll_id": "DXF1ZXJ5QW5kRmV0Y2gBAAAAAAAANQWNWdUemoybmFSOUNvM3gwQkRZT0xBQQ=="
}
```

```
curl --location --request POST "http://localhost:9200/_search/scroll" --header
"Content-Type: application/json" l-data "{ \"scroll\":\"10m\", \"scroll_id\":
\"DXF1ZXJ5QW5kRmV0Y2gBAAAAAAAANQWNWdUemoybmFSOUNvM3gwQkRZT0xBQQ==\" }"
```

Example Request - delete_scroll context
DEL http://localhost:9200/_search/scroll

HEADERS
Content-Type
application/json

BODY
```
{
        "scroll_id":
["DXF1ZXJ5QW5kRmV0Y2gBAAAAAAAANQWNWdUemoybmFSOUNvM3gwQkRZT0xBQQ=="]
}
```

```
curl --location --request DELETE "http://localhost:9200/_search/scroll" --header
"Content-Type: application/json" --data "{ \"scroll_id\":
[\"DXF1ZXJ5QW5kRmV0Y2gBAAAAAAAANQWNWdUemoybmFSOUNvM3gwQkRZT0xBQQ==\"] }"
```

Example Request request_body_search_after
POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "size":2,
        "sort": {
                "rating":"desc",
                "symbol":"asc"
        },
        "search_after": [5, "EES"]
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"size\":2, \"sort\":
{ \"rating\":\"desc\", \"symbol\":\"asc\" }, \"search_after\": [5, \"EES\"] }"
```

Example Request - request_body_search_rescore_original
POST request_body_search_rescore_original
http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "query_string": {
                        "query": "description:emerging non-diversified high-yield gobal
dividend",
                        "analyzer":"description_analyzer"
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"description:emerging non-diversified high-yield gobal dividend\",
\"analyzer\":\"description_analyzer\" } } }"
```

Example Request - request_body_search_rescore

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY

```
{
        "query": {
                "query_string": {
                        "query": "description:emerging non-diversified high-yield gobal
dividend",
                        "analyzer":"description_analyzer"
                }
        },
        "rescore": {
                "window_size":500,
                "query": {
                        "rescore_query": {
                                "query_string": {
                                "query":"description:global",
                                "analyzer":"description_analyzer"
                                }
                        },

                        "query_weight" : 0.1,
                "rescore_query_weight" : 0.9
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"description:emerging non-diversified high-yield gobal dividend\",
\"analyzer\":\"description_analyzer\" } }, \"rescore\": { \"window_size\":500,
\"query\": { \"rescore_query\": { \"query_string\":
{ \"query\":\"description:global\", \"analyzer\":\"description_analyzer\" } },
\"query_weight\" : 0.1, \"rescore_query_weight\" : 0.9 } } }"
```

Example Request - request_body_search_rescore_mode
POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY

```
{
        "query": {
                "query_string": {
                        "query": "description:emerging non-diversified high-yield gobal",
                        "analyzer":"description_analyzer"
                }
        },
        "rescore": {
                "window_size":100,
```

```
                "query": {
                        "rescore_query": {
                                "query_string": {
                                "query":"description:global",
                                "analyzer":"description_analyzer"
                                }
                        },
                        "score_mode": "avg"
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"description:emerging non-diversified high-yield gobal\",
\"analyzer\":\"description_analyzer\" } }, \"rescore\": { \"window_size\":100,
\"query\": { \"rescore_query\": { \"query_string\":
{ \"query\":\"description:global\", \"analyzer\":\"description_analyzer\" } },
\"score_mode\": \"avg\" } } }"
```

Example Request - request_body_search_script_evaluate_doc

http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "query_string": {
                        "query": "description:emerging non-diversified high-yield gobal",
                        "analyzer":"description_analyzer"
                }
        },
        "script_fields": {
                "test": {
                        "script": "doc['symbol']"
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"description:emerging non-diversified high-yield gobal\",
\"analyzer\":\"description_analyzer\" } }, \"script_fields\": { \"test\":
{ \"script\": \"doc['symbol']\" } } }"
```

Example Request - request_body_search_script_evaluation_source

HEADERS
Content-Type
application/json

BODY
```
{
	"query": {
		"query_string": {
			"query": "description:emerging non-diversified high-yield gobal",
			"analyzer":"description_analyzer"
		}
	},
	"script_fields": {
		"test": {
			"script": "doc['symbol']"
		}
	}
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"description:emerging non-diversified high-yield gobal\",
\"analyzer\":\"description_analyzer\" } }, \"script_fields\": { \"test\":
{ \"script\": \"doc['symbol']\" } } }"
```

Example Request - request_body_search_named_queries
POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
	"query": {
		"bool": {
			"should":[
				{"query_string": {
					"_name":"Asia",
					"query": "description:asia",
					"analyzer":"description_analyzer"
				}},
				{"query_string": {
					"_name":"usa",
					"query": "description:usa",
					"analyzer":"description_analyzer"
				}},
				{"query_string": {
					"_name":"europe",
					"query": "description:europe",
					"analyzer":"description_analyzer"
				}}
			]
```

```
            }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"bool\":
{ \"should\":[ {\"query_string\": { \"_name\":\"Asia\", \"query\":
\"description:asia\", \"analyzer\":\"description_analyzer\" }}, {\"query_string\":
{ \"_name\":\"usa\", \"query\": \"description:usa\",
\"analyzer\":\"description_analyzer\" }}, {\"query_string\": { \"_name\":\"europe\",
\"query\": \"description:europe\", \"analyzer\":\"description_analyzer\" }} ] } } }"
```

Example Request - request_body_search_field_collapse

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "range": {"rating":{"gte":4}}
        },
        "collapse" : {
                "field":"rating"
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"range\":
{\"rating\":{\"gte\":4}} }, \"collapse\" : { \"field\":\"rating\" } }"
```

Example Request - multi_search_api

POST http://localhost:9200/cf_etf/_msearch

HEADERS
Content-Type
application/json

BODY
```
{"index":"cf_etf"}
{"query": {"bool":{"must_not":{"exists":{"field":"rating"}}}}}
{"index":"cf_view"}
{"query": {"bool":{"must_not":{"exists":{"field":"rating"}}}}}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_msearch" --header
"Content-Type: application/json" --data $'{\"index\":\"cf_etf\"}\n{\"query\":
```

```
{\"bool\":{\"must_not\":{\"exists\":{\"field\":\"rating\"}}}}\n{\"index\":\"cf_view\"
}\n{\"query\": {\"bool\":{\"must_not\":{\"exists\":{\"field\":\"rating\"}}}}}\n'
```

Example Request - highlighting

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "bool": {
                        "should":[
                                {"query_string": {
                                        "query": "description:asia",
                                        "analyzer":"description_analyzer"
                                }},
                                {"query_string": {
                                        "query": "description:usa",
                                        "analyzer":"description_analyzer"
                                }},
                                {"query_string": {
                                        "query": "description:europe",
                                        "analyzer":"description_analyzer"
                                }}
                        ]
                }
        },
        "highlight": {
                "fields":{
                        "description":{}
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"bool\":
{ \"should\":[ {\"query_string\": { \"query\": \"description:asia\",
\"analyzer\":\"description_analyzer\" }}, {\"query_string\": { \"query\":
\"description:usa\", \"analyzer\":\"description_analyzer\" }}, {\"query_string\":
{ \"query\": \"description:europe\", \"analyzer\":\"description_analyzer\" }} ] } },
\"highlight\": { \"fields\":{ \"description\":{} } } }"
```

Example Request - highlighting_number_of_fragments_0

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY

```
{
        "query": {
                "bool": {
                        "must":[
                                {"match":{"description":"index"}}
                        ]
                }
        },
        "highlight": {
                "fields":{
                        "description":{"number_of_fragments":0}

                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"bool\":
{ \"must\":[ {\"match\":{\"description\":\"index\"}} ] } }, \"highlight\":
{ \"fields\":{ \"description\":{\"number_of_fragments\":0} } } }"
```

Example Request - highlighting_fragment_size_20

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY

```
{
        "query": {
                "bool": {
                        "must":[
                                {"match":{"description":"index"}}
                        ]
                }
        },
        "highlight": {
                "fields":{
                        "description":{"fragment_size": 20}
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"bool\":
{ \"must\":[ {\"match\":{\"description\":\"index\"}} ] } }, \"highlight\":
{ \"fields\":{ \"description\":{\"fragment_size\": 20} } } }"
```

Example Request - highlighting_no_match_size_20

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```json
{
        "query": {
                "bool": {
                        "should":[
                                        {"match":{"description":"asia"}},
                                        {"match":{"fund_name":"global"}}
                        ]
                }
        },
        "highlight": {
                "no_match_size":20,
                "fields":{
                        "description":{}
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"bool\":
{ \"should\":[ {\"match\":{\"description\":\"asia\"}},
{\"match\":{\"fund_name\":\"global\"}} ] } }, \"highlight\": { \"no_match_size\":20,
\"fields\":{ \"description\":{} } } }"
```

Example Request - highlighting_highlight_fields_unordered
POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```json
{
        "query": {
                "multi_match": {
                        "query": "asia",
                        "fields": ["fund_name", "description"]
                }
        },
        "highlight": {
                "fields":{
                        "fund_name":{},
                        "description":{}
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"multi_match\": { \"query\":
\"asia\", \"fields\": [\"fund_name\", \"description\"] } }, \"highlight\":
{ \"fields\":{ \"fund_name\":{}, \"description\":{} } } }"
```

Example Request - highlighting_highlight_field_order_score

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "match": {"description":"index"}
        },
        "highlight": {
                "number_of_fragments" : 3,
                "fragment_size":20,
                "order":"score",
                "fields":{
                        "description":{}
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"match\":
{\"description\":\"index\"} }, \"highlight\": { \"number_of_fragments\" : 3,
\"fragment_size\":20, \"order\":\"score\", \"fields\":{ \"description\":{} } } }"
```

Example Request - highlighting_multi_match

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "multi_match": {
                        "query": "asia",
                        "fields": ["fund_name", "description"]
                }
        },
        "highlight": {
                "fields":[
                        {"fund_name":{}},
                        {"description":{}}
                ]
```

```
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"multi_match\": { \"query\":
\"asia\", \"fields\": [\"fund_name\", \"description\"] } }, \"highlight\":
{ \"fields\":[ {\"fund_name\":{}}, {\"description\":{}} ] } }"
```

Example Request - highlighting_fragmenter_plain_span

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "match_phrase":{
                        "description": "NASDAQ US Benchmark"
                }
        },
        "highlight": {
                "type":"plain",
                "fragmenter": "span",
                "fields":{
                        "description":{}
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\":
{ \"match_phrase\":{ \"description\": \"NASDAQ US Benchmark\" } }, \"highlight\":
{ \"type\":\"plain\", \"fragmenter\": \"span\", \"fields\":{ \"description\":{} } } }"
```

Example Request - highlighting_require_field_match_false

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "bool": {
                        "should":[
                                {"match":{"description":"asia"}},
                                {"match":{"fund_name":"global"}}
```

```
            ]
        }
    },
    "highlight": {
        "require_field_match":false,
        "fields":{
            "description":{}
        }
    }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"bool\":
{ \"should\":[ {\"match\":{\"description\":\"asia\"}},
{\"match\":{\"fund_name\":\"global\"}} ] } }, \"highlight\":
{ \"require_field_match\":false, \"fields\":{ \"description\":{} } } }"
```

Example Request - highlighting_tags_schema
POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
    "query": {
        "bool": {
            "should":[
                {"query_string": {
                    "query": "description:asia",
                    "analyzer":"description_analyzer"
                }},
                {"query_string": {
                    "query": "description:usa",
                    "analyzer":"description_analyzer"
                }},
                {"query_string": {
                    "query": "description:europe",
                    "analyzer":"description_analyzer"
                }}
            ]
        }
    },
    "highlight": {
        "tags_schema":"styled",
        "fields":{
            "symbol":{},
            "description":{}
        }
    }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"bool\":
{ \"should\":[ {\"query_string\": { \"query\": \"description:asia\",
\"analyzer\":\"description_analyzer\" }}, {\"query_string\": { \"query\":
\"description:usa\", \"analyzer\":\"description_analyzer\" }}, {\"query_string\":
{ \"query\": \"description:europe\", \"analyzer\":\"description_analyzer\" }} ] } },
\"highlight\": { \"tags_schema\":\"styled\", \"fields\":{ \"symbol\":{},
\"description\":{} } } }"
```

Example Request - highlighting_boundary_scanner

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "multi_match": {
                        "query": "pacific",
                        "fields": ["description", "fund_name"]
                }
        },
        "highlight": {
                "boundary_scanner_locale": "en-US",
                "fields":{
                        "description":{"boundary_scanner" : "sentence"},
                        "fund_name": {"boundary_scanner" : "word"}
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"multi_match\": { \"query\":
\"pacific\", \"fields\": [\"description\", \"fund_name\"] } }, \"highlight\":
{ \"boundary_scanner_locale\": \"en-US\",
\"fields\":{ \"description\":{\"boundary_scanner\" : \"sentence\"}, \"fund_name\":
{\"boundary_scanner\" : \"word\"} } } }"
```

Example Request - match_query_or

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "match": {
```

```
                "fund_name": {
                        "query": "ishares global"
                }
        }
    }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"match\": { \"fund_name\":
{ \"query\": \"ishares global\" } } } }"
```

Example Request - match_query_and

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "match": {
                        "fund_name": {
                                "query": "ishares global",
                                "operator": "and"
                        }
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"match\": { \"fund_name\":
{ \"query\": \"ishares global\", \"operator\": \"and\" } } } }"
```

Example Request - match_query_fuzziness_2

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "match": {
                        "fund_name": {
                                "query": "ishares global",
                                "operator": "and",
                                "fuzziness":2
                        }
                }
```

```
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"match\": { \"fund_name\":
{ \"query\": \"ishares global\", \"operator\": \"and\", \"fuzziness\":2 } } } }"
```

Example Request - match_query_ zero_terms_query_all

http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "match": {
                        "fund_name": {
                                "query": "to be",
                                "zero_terms_query": "all"
                        }
                }
        }
}
```

```
curl --location --request GET "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"match\": { \"fund_name\":
{ \"query\": \"to be\", \"zero_terms_query\": \"all\" } } } }"
```

Example Request - match_query_ cutoff_frequency_10

POST match_query_ cutoff_frequency_10

http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "match": {
                        "fund_name": {
                                "query": "usa global emerging",
                                "cutoff_frequency": 10
                        }
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"match\": { \"fund_name\":
{ \"query\": \"usa global emerging\", \"cutoff_frequency\": 10 } } } }"
```

Example Request - match_phrase_query

POST match_phrase_query

http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "match_phrase": {
                        "fund_name": {
                                "query": "ishares msci"
                        }
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"match_phrase\":
{ \"fund_name\": { \"query\": \"ishares msci\" } } } }"
```

Example Request - match_phrase_query_prefix

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "match_phrase_prefix": {
                        "description": {
                                "query": "The investment seeks to track"
                        }
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"match_phrase_prefix\":
{ \"description\": { \"query\": \"The investment seeks to track\" } } } }"
```

Example Request - query_string_colon_character

http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "query_string": {
                        "query": "fund_name:ishares"
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"fund_name:ishares\" } } }"
```

Example Request - query_string_grouping

http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "query_string": {
                        "query": "fund_name:(usa || asia)"
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"fund_name:(usa || asia)\" } } }"
```

Example Request - query_string_boolean_characters

http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
      "query": {
            "query_string": {
                  "query": "fund_name:((usa || asia) && emerging && ! global)"
            }
      }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"fund_name:((usa || asia) && emerging && ! global)\" } } }"
```

Example Request - query_string_boolean_op

HEADERS
Content-Type
application/json

BODY
```
{
      "query": {
            "query_string": {
                  "query": "rating:>=4"
            }
      }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"rating:>=4\" } } }"
```

Example Request - query_string_wildcard

HEADERS
Content-Type
application/json

BODY
```
{
      "query": {
            "query_string": {
                  "query": "symbol:ACW*"
            }
      }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"symbol:ACW*\" } } }"
```

Example Request - query_string_exact_phrase

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "query_string": {
                        "query": "fund_name:\"iShares MSCI ACWI ETF\""
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"fund_name:\\\"iShares MSCI ACWI ETF\\\"\" } } }"
```

Example Request - query_string_fuzziness

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "query_string": {
                        "query": "fund_name:(ishares~ && global~)"
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"fund_name:(ishares~ && global~)\" } } }"
```

Example Request - query_string_regex

POST http://localhost:9200/cf_etf/_search
```

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "query_string": {
                        "query": "symbol://ACW?//"
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"query_string\": { \"query\":
\"symbol://ACW?//\" } } }"
```

Example Request - query_string_boosting
POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "query_string": {
                        "query": "fund_name:(ishares global^2)"
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data
$'{\"query\":{\"query_string\":{\"query\":\"fund_name:(ishares global^2)\"}}}'
```

Example Request - query_string_range_query
POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "sort":{"rating":"desc"},
        "query": {
                "query_string": {
                        "query": "rating:[1 TO 3}"
                }
```

```
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"sort\":{\"rating\":\"desc\"}, \"query\":
{ \"query_string\": { \"query\": \"rating:[1 TO 3}\" } } }"
```

Example Request - query_string_multiple_fields

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "sort":{"rating":"desc"},
        "query": {
                "query_string": {
                        "fields": ["fund_name", "description"],
                        "query": "emerging"
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"sort\":{\"rating\":\"desc\"}, \"query\":
{ \"query_string\": { \"fields\": [\"fund_name\", \"description\"], \"query\":
\"emerging\" } } }"
```

Example Request - simple_query_string_boolean_AND

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "sort":{"rating":"desc"},
        "query": {
                "simple_query_string": {
                        "fields": ["fund_name"],
                        "query": "ishares + global"
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"sort\":{\"rating\":\"desc\"}, \"query\":
{ \"simple_query_string\": { \"fields\": [\"fund_name\"], \"query\": \"ishares +
global\" } } }"
```

Example Request - simple_query_string_boolean_OR

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "sort":{"rating":"desc"},
        "query": {
                "simple_query_string": {
                        "fields": ["fund_name"],
                        "query": "ishares | global"
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"sort\":{\"rating\":\"desc\"}, \"query\":
{ \"simple_query_string\": { \"fields\": [\"fund_name\"], \"query\": \"ishares |
global\" } } }"
```

Example Request - simple_query_string_must_not_match

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "sort":{"rating":"desc"},
        "query": {
                "simple_query_string": {
                        "fields": ["fund_name"],
                        "query": "-ishares + -global"
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"sort\":{\"rating\":\"desc\"}, \"query\":
{ \"simple_query_string\": { \"fields\": [\"fund_name\"], \"query\": \"-ishares + -
global\" } } }"
```

Example Request - simple_query_string_match_prhase

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY

```
{
        "sort":{"rating":"desc"},
        "query": {
                "simple_query_string": {
                        "fields": ["fund_name"],
                        "query": "\"iShares MSCI ACWI ETF\""
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"sort\":{\"rating\":\"desc\"}, \"query\":
{ \"simple_query_string\": { \"fields\": [\"fund_name\"], \"query\": \"\\\"iShares
MSCI ACWI ETF\\\"\" } } }"
```

Example Request - simple_query_string_fuzziness

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY

```
{
        "sort":{"rating":"desc"},
        "query": {
                "simple_query_string": {
                        "fields": ["fund_name"],
                        "query": "global~"
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"sort\":{\"rating\":\"desc\"}, \"query\":
{ \"simple_query_string\": { \"fields\": [\"fund_name\"], \"query\":
\"global~\" } } }"
```

Example Request - simple_query_string_prefix

HEADERS
Content-Type
application/json

BODY
```
{
        "sort":{"rating":"desc"},
        "query": {
                "simple_query_string": {
                        "fields": ["fund_name"],
                        "query": "ishares~"
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"sort\":{\"rating\":\"desc\"}, \"query\":
{ \"simple_query_string\": { \"fields\": [\"fund_name\"], \"query\":
\"ishares~\" } } }"
```

Example Request - simple_query_string_precedence

HEADERS
Content-Type
application/json

BODY
```
{
        "sort":{"rating":"desc"},
        "query": {
                "simple_query_string": {
                        "fields": ["fund_name"],
                        "query": "(usa | asia) + emerging"
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"sort\":{\"rating\":\"desc\"}, \"query\":
{ \"simple_query_string\": { \"fields\": [\"fund_name\"], \"query\": \"(usa | asia) +
emerging\" } } }"
```

Example Request - intervals_query_order_and_max_gap

HEADERS

Content-Type
application/json

BODY

```
{
        "size":50,
        "query": {
                "intervals": {
                        "fund_name": {
                                "all_of": {
                                        "ordered":true,
                                        "intervals":[
                                                {"match": {"query":"MSCI Markets",
"max_gaps" : 1}},
                                                {"match": {"query": "ETF"}}
                                        ]
                                }
                        }
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"size\":50, \"query\": { \"intervals\":
{ \"fund_name\": { \"all_of\": { \"ordered\":true, \"intervals\":[ {\"match\":
{\"query\":\"MSCI Markets\", \"max_gaps\" : 1}}, {\"match\": {\"query\":
\"ETF\"}} ] } } } } }"
```

Example Request - intervals_query_max_gap_not_match

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY

```
{
        "size":50,
        "query": {
                "intervals": {
                        "fund_name": {
                                "all_of": {
                                        "ordered":true,
                                        "intervals":[
                                                {"match": {"query":"MSCI Markets",
"max_gaps" : 0}},
                                                {"match": {"query": "ETF"}}
                                        ]
                                }
                        }
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"size\":50, \"query\": { \"intervals\":
{ \"fund_name\": { \"all_of\": { \"ordered\":true, \"intervals\":[ {\"match\":
{\"query\":\"MSCI Markets\", \"max_gaps\" : 0}}, {\"match\": {\"query\":
\"ETF\"}} ] } } } } }"
```

Example Request - intervals_query_order_not_match

HEADERS
Content-Type
application/json

BODY
```
{
        "size":50,
        "query": {
                "intervals": {
                        "fund_name": {
                                "all_of": {
                                        "ordered":true,
                                        "intervals":[
                                                {"match": {"query": "ETF"}},
                                                {"match": {"query":"MSCI Markets",
"max_gaps" : 1}}
                                        ]
                                }
                        }
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"size\":50, \"query\": { \"intervals\":
{ \"fund_name\": { \"all_of\": { \"ordered\":true, \"intervals\":[ {\"match\":
{\"query\": \"ETF\"}}, {\"match\": {\"query\":\"MSCI Markets\", \"max_gaps\" :
1}} ] } } } } }"
```

Example Request - term_query_term

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "term": {
                        "symbol": "ACWI"
                }
```

```
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"term\": { \"symbol\":
\"ACWI\" } } }"
```

Example Request - term_query_terms

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "terms": {
                        "symbol": ["ACWI", "ACWF"]
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"terms\": { \"symbol\":
[\"ACWI\", \"ACWF\"] } } }"
```

Example Request - term_query_range

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "range": {
                        "rating": {
                                "gte": 3,
                                "lt":5
                        }
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"range\": { \"rating\":
{ \"gte\": 3, \"lt\":5 } } } }"
```

Example Request - term_query_exists

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "exists": {   "field":"fund_name"}
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" \
  --header "Content-Type: application/json" \
  --data "{
      \"query\": {
              \"exists\": {\"field\":\"fund_name\"}
      }
}"
```

Example Request - term_query_prefix

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "prefix": {   "symbol":"ACW"}
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data
"{\"query\":{\"prefix\":{\"symbol\":\"ACW\"}}}"
```

Example Request - term_query_wildcard

POST http://localhost:9200/cf_etf/_search

HEADERS

Content-Type
application/json

BODY
```
{
        "query": {
                "wildcard": {"symbol":"A*I"}
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"wildcard\":
{\"symbol\":\"A*I\"} } }"
```

Example Request - term_query_regexp
POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "regexp": {"symbol":"ACW[IF]"}
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"regexp\":
{\"symbol\":\"ACW[IF]\"} } }"
```

Example Request - term_query_fuzzy
POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "fuzzy": {"symbol":"ACW~"}
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"fuzzy\":
{\"symbol\":\"ACW~\"} } }"
```

Example Request - term_query_ids

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "ids": {"values":["oU2jLGkB_W0hQaVaoEie", "GgOJ7msB3gfI-VGlT4dA"]}
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" \ --header
"Content-Type: application/json" \ --data "{ \"query\": { \"ids\":
{\"values\":[\"oU2jLGkB_W0hQaVaoEie\", \"GgOJ7msB3gfI-VGlT4dA\"]} } }"
```

Example Request - script_query

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
        "query": {
                "bool": {
                        "must": {"match_phrase_prefix": {"fund_name": "ishares edge" }},
                        "filter": {
                                "script": {
                                        "script": {
                                                "lang": "painless",
                                                "source":"if (!doc['rating'].empty &&
doc['rating'].value >= 4) return true; else false;"
                                        }
                                }
                        }
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data $'{ \"query\": { \"bool\": { \"must\":
{\"match_phrase_prefix\": {\"fund_name\": \"ishares edge\" }}, \"filter\":
{ \"script\": { \"script\": { \"lang\": \"painless\", \"source\":\"if
(!doc[\'rating\'].empty && doc[\'rating\'].value >= 4) return true; else
false;\" } } } } } }'
```

Example Request - bool_query

http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY

```
{
      "query": {
            "bool": {
                  "must": {"match_phrase_prefix": {"fund_name": "ishares edge" }},
                  "must_not": {"match": {"fund_name":"global"}}
            }
      }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"bool\": { \"must\":
{\"match_phrase_prefix\": {\"fund_name\": \"ishares edge\" }}, \"must_not\":
{\"match\": {\"fund_name\":\"global\"}} } } }"
```

Example Request - boosting_query

POST boosting_query

http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY

```
{
      "query": {
            "boosting": {
                  "positive": {"match_phrase_prefix": {"fund_name": "ishares
edge" }},
                  "negative": {"term":{"category":"Equity"}},
                  "negative_boost":0.1
            }
      }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"boosting\": { \"positive\":
{\"match_phrase_prefix\": {\"fund_name\": \"ishares edge\" }}, \"negative\":
{\"term\":{\"category\":\"Equity\"}}, \"negative_boost\":0.1 } } }"
```

Example Request - dismax_query_query_1

HEADERS
Content-Type
application/json

BODY

```json
{
        "query": {
                "dis_max": {
                        "queries": [
                                {"match_phrase": {"fund_name": "ishares edge" }}
                        ]
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"dis_max\": { \"queries\":
[ {\"match_phrase\": {\"fund_name\": \"ishares edge\" }} ] } } }"
```

Example Request - dismax_query_query_2

HEADERS
Content-Type
application/json

BODY

```json
{
        "query": {
                "dis_max": {
                        "queries": [
                                {"match": {"morningstar_category": "World Large Stock"}}
                        ]
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"dis_max\": { \"queries\":
[ {\"match\": {\"morningstar_category\": \"World Large Stock\"}} ] } } }"
```

Example Request - dismax_query_query_1&2

HEADERS
Content-Type
application/json

BODY

```
{
        "query": {
                "dis_max": {
                        "queries": [
                                {"match_phrase": {"fund_name": "ishares edge" }},
                                {"match": {"morningstar_category": "World Large Stock"}}
                        ]
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"dis_max\": { \"queries\":
[ {\"match_phrase\": {\"fund_name\": \"ishares edge\" }}, {\"match\":
{\"morningstar_category\": \"World Large Stock\"}} ] } } }"
```

Example Request - function_score_query

POST http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY

```
{
        "query": {
                "function_score": {
                        "query": {"match_phrase": {"fund_name": "ishares edge" }},
                        "functions":[
                                {"filter":{"wildcard": {"morningstar_category": "*Stock"}},
"weight":2},
                                {"filter":{"wildcard": {"morningstar_category":
"*Growth"}}, "weight":1.5},
                                {"filter":{"wildcard": {"morningstar_category": "*Blend"}},
"weight":0.5}
                        ]
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"query\": { \"function_score\":
{ \"query\": {\"match_phrase\": {\"fund_name\": \"ishares edge\" }},
\"functions\":[ {\"filter\":{\"wildcard\": {\"morningstar_category\": \"*Stock\"}},
\"weight\":2}, {\"filter\":{\"wildcard\": {\"morningstar_category\": \"*Growth\"}},
\"weight\":1.5}, {\"filter\":{\"wildcard\": {\"morningstar_category\": \"*Blend\"}},
\"weight\":0.5} ] } } }"
```

Example Request - explain_api

POST http://localhost:9200/cf_etf/_explain/GgOJ7msB3gfI-VGlT4dA

HEADERS
Content-Type
application/json

BODY
```
{
      "query": {
            "match": {"fund_name": "ishares edge global"}
      }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_explain/GgOJ7msB3gfI-
VGlT4dA" --header "Content-Type: application/json" --data "{ \"query\": { \"match\":
{\"fund_name\": \"ishares edge global\"} } }"
```


Example Request - validate_api
POST http://localhost:9200/cf_etf/_validate/query?explain=true

HEADERS
Content-Type
application/json

PARAMS
explain
true

BODY
```
{
      "query": {
            "match": {"rating":"five"}
      }
}
```

```
curl --location --request POST
"http://localhost:9200/cf_etf/_validate/query?explain=true" --header "Content-Type:
application/json" --data "{ \"query\": { \"match\": {\"rating\":\"five\"} } }"
```


Example Request - search_count_api_fund_name_w_asia
POST http://localhost:9200/cf_etf/_count

HEADERS
Content-Type
application/json

BODY
```
{
      "query": {
            "term": {"fund_name":"asia"}
```

```
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_count" --header
"Content-Type: application/json" --data "{ \"query\": { \"term\":
{\"fund_name\":\"asia\"} } }"
```

Example Request - field_capabilities

GET http://localhost:9200/_field_caps?fields=fund_name,description

HEADERS
Content-Type
application/json

PARAMS
fields
fund_name,description

```
curl --location --request GET
"http://localhost:9200/_field_caps?fields=fund_name,description" --header "Content-
Type: application/json"
```

Example Request - ranking_evaluation

POST http://localhost:9200/cf_etf/_rank_eval

HEADERS
Content-Type
application/json

BODY
```
{
        "requests": [
                {
                        "id": "Asia",
                        "request":{"query": {"match":{"description":"asia"}}},
                        "ratings": []
                },
                {
                        "id": "Global",
                        "request":{"query": {"match":{"description":"global"}}},
                        "ratings": []
                }
        ],
    "metric": {
        "precision": {
            "k" : 3,
            "relevant_rating_threshold" : 1
        }
    }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_rank_eval" --header
"Content-Type: application/json" --data "{ \"requests\": [ { \"id\": \"Asia\",
\"request\":{\"query\": {\"match\":{\"description\":\"asia\"}}}, \"ratings\": [] },
{ \"id\": \"Global\", \"request\":{\"query\":
{\"match\":{\"description\":\"global\"}}}, \"ratings\": [] } ], \"metric\":
{ \"precision\": { \"k\" : 3, \"relevant_rating_threshold\" : 1 } } }"
```

Example Request - search_request_profiling

http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
       "profile":true,
       "query": {
              "query_string": {
                     "query": "fund_name:ishares description:global",
                     "default_operator": "AND"

              }
       }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"profile\":true, \"query\":
{ \"query_string\": { \"query\": \"fund_name:ishares description:global\",
\"default_operator\": \"AND\" } } }"
```

Example Request - term_suggester

http://localhost:9200/cf_etf/_search

HEADERS
Content-Type
application/json

BODY
```
{
       "suggest": {
              "text": "asian stock",
              "suggester_1": {
                     "term": {
                            "field": "fund_name"
                     }
              },
              "suggester_2": {
                     "term": {
                            "field": "description"
```

```
            }
        }
    }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"suggest\": { \"text\": \"asian stock\",
\"suggester_1\": { \"term\": { \"field\": \"fund_name\" } }, \"suggester_2\":
{ \"term\": { \"field\": \"description\" } } } }"
```


Example Request - phrase_suggester

HEADERS
Content-Type
application/json

BODY
```
{
      "suggest": {
            "text": "divide weigh index",
            "suggester": {
                  "phrase": {
                        "field": "description"
                  }
            }
      }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --data "{ \"suggest\": { \"text\": \"divide weigh
index\", \"suggester\": { \"phrase\": { \"field\": \"description\" } } } }"
```


Example Request - cf_etf_suggester_mappings

GET http://localhost:9200/cf_etf_suggester/_mappings

HEADERS
Content-Type
application/json

```
curl --location --request GET "http://localhost:9200/cf_etf_suggester/_mappings" --
header "Content-Type: application/json"
```


Example Request - cf_etf_suggester

POST http://localhost:9200/cf_etf_suggester/_search

HEADERS
Content-Type

application/json

BODY

```
{
        "suggest": {
                "fund_name_suggester": {
                        "prefix":"ishares edge",
                        "completion": {
                                "field": "fund_name"
                        }
                }
        }
}
```

```
curl --location --request POST "http://localhost:9200/cf_etf_suggester/_search" --
header "Content-Type: application/json" --data "{ \"suggest\":
{ \"fund_name_suggester\": { \"prefix\":\"ishares edge\", \"completion\": { \"field\":
\"fund_name\" } } } }"
```

CHAPTER6