chapter9

PUT create_pipeline_range_ratio

http://localhost:9200/_ingest/pipeline/range_ratio

HEADERS

Content-Type
application/json
accept
application/json
BODY

Example Request

create_pipeline_range_ratio

```
curl --location --request PUT "http://localhost:9200/_ingest/pipeline/range_ratio" --
header "Content-Type: application/json" --header "accept: application/json" --data
$'{ \"description\":\"calculate the range of high and low and divide by the close
price\", \"processors\":[ { \"script\": { \"source\": \"ctx.range_ratio = (ctx.high-
ctx.low)/ctx.close\" } } ] }'}'
```

DEL delete_pipeline_range_ratio

http://localhost:9200/_ingest/pipeline/range_ratio

HEADERS

```
Content-Type
application/json
accept
application/json
BODY
```

Example Request

delete_pipeline_range_ratio

```
curl --location --request DELETE "http://localhost:9200/_ingest/pipeline/range_ratio"
   --header "Content-Type: application/json" --header "accept: application/json" --data
$'{ \"description\":\"calculate the range of high and low and divide by the close
price\", \"processors\":[ { \"set\": { \"field\": \"range_ratio\", \"value\":
\"({{high}}-{{low}})/{{close}}\" } } ] }'
```

DEL delete_pipeline_wildcard_expression

 $http://localhost:9200/_ingest/pipeline/range_ratio^*$

HEADERS

Content-Type
application/json
accept
application/json

delete_pipeline_wildcard_expression

```
curl --location --request DELETE "http://localhost:9200/_ingest/pipeline/range_ratio*"
   --header "Content-Type: application/json" --header "accept: application/json" --data
$'{ \"description\":\"calculate the range of high and low and divide by the close
price\", \"processors\":[ { \"set\": { \"field\": \"range_ratio\", \"value\":
\"({{high}}-{{low}})/{{close}}\" } } ] }'
```

POST simulate_pipeline_range_ratio

http://localhost:9200/_ingest/pipeline/range_ratio/_simulate

```
Content-Type
application/json
accept
application/json
BODY
```

```
]
}
```

simulate pipeline range ratio

```
curl --location --request POST
"http://localhost:9200/_ingest/pipeline/range_ratio/_simulate" --header "Content-Type:
application/json" --header "accept: application/json" --data
$'{ \"docs\" :[ {\"_source\": {\"date\": \"2018-12-26\", \"open\": 24.8706,
\"high\": 25.6553, \"low\": 24.7117, \"close\": 25.6553, \"volume\": 422158,
\"unadjustedVolume\": 422158, \"change\": 0.84425, \"changePercent\": 3.403, \"vwap\":
25.2926, \"label\": \"Dec 26, 18\", \"changeOverTime\": 0, \"symbol\": \"ACWF\"}} ] }'
```

POST simulate_pipeline_ad_hoc_range_ratio

http://localhost:9200/_ingest/pipeline/_simulate

```
Content-Type
application/json
accept
application/json
BODY
```

}

Example Request

simulate pipeline ad hoc range ratio

```
curl --location --request POST "http://localhost:9200/_ingest/pipeline/_simulate" --
header "Content-Type: application/json" --header "accept: application/json" --data
$'{ \"pipeline\": { \"description\":\"calculate the range of high and low and divide
by the close price\", \"processors\":[{ \"script\": { \"source\": \"ctx.range_ratio =
(ctx.high-ctx.low)/ctx.close\" } }] }, \"docs\" :[ {\"_source\": {\"date\": \"2018-12-
26\", \"open\": 24.8706, \"high\": 25.6553, \"low\": 24.7117, \"close\": 25.6553,
\"volume\": 422158, \"unadjustedVolume\": 422158, \"change\": 0.84425,
\"changePercent\": 3.403, \"vwap\": 25.2926, \"label\": \"Dec 26, 18\",
\"changeOverTime\": 0, \"symbol\": \"ACWF\"}}] }'
```

POST index_with_pipeline_range_ratio

http://localhost:9200/cf_etf_pipeline/_doc/1?pipeline=range_ratio

HEADERS

Content-Type
application/json
accept
application/json
PARAMS
pipeline
range_ratio

BODY

```
{
    "date": "2018-12-26",
    "open": 24.8706,
    "high": 25.6553,
    "low": 24.7117,
    "close": 25.6553,
    "volume": 422158,
    "unadjustedVolume": 422158,
    "change": 0.84425,
    "changePercent": 3.403,
```

```
"vwap": 25.2926,

"label": "Dec 26, 18",

"changeOverTime": 0,

"symbol": "ACWF"
}
```

index_with_pipeline_range_ratio

```
curl --location --request POST
"http://localhost:9200/cf_etf_pipeline/_doc/1?pipeline=range_ratio" --header "Content-
Type: application/json" --header "accept: application/json" --data $'{ \"date\":
\"2018-12-26\", \"open\": 24.8706, \"high\": 25.6553, \"low\": 24.7117, \"close\":
25.6553, \"volume\": 422158, \"unadjustedVolume\": 422158, \"change\": 0.84425,
\"changePercent\": 3.403, \"vwap\": 25.2926, \"label\": \"Dec 26, 18\",
\"changeOverTime\": 0, \"symbol\": \"ACWF\" }'
```

DEL index_with_pipeline_range_ratio_doc

http://localhost:9200/cf_etf_pipeline/_doc/1

HEADERS

Content-Type
application/json
accept
application/json
BODY

```
{
    "date": "2018-12-26",
    "open": 24.8706,
    "high": 25.6553,
    "low": 24.7117,
    "close": 25.6553,
    "volume": 422158,
    "unadjustedVolume": 422158,
    "change": 0.84425,
    "changePercent": 3.403,
    "vwap": 25.2926,
    "label": "Dec 26, 18",
    "changeOverTime": 0,
```

```
"symbol": "ACWF"
}
```

index with pipeline range ratio doc

```
curl --location --request DELETE "http://localhost:9200/cf_etf_pipeline/_doc/1" --
header "Content-Type: application/json" --header "accept: application/json" --data
$'{ \"date\": \"2018-12-26\", \"open\": 24.8706, \"high\": 25.6553, \"low\":
24.7117, \"close\": 25.6553, \"volume\": 422158, \"unadjustedVolume\": 422158,
\"change\": 0.84425, \"changePercent\": 3.403, \"vwap\": 25.2926, \"label\": \"Dec 26,
18\", \"changeOverTime\": 0, \"symbol\": \"ACWF\" }'
```

GET get_document_from_index_with_pipeline_range_ratio

http://localhost:9200/cf_etf_pipeline/_doc/1

HEADERS

Content-Type
application/json
accept
application/json
BODY

```
{
}
```

Evample Request

get document from index with pipeline range ratio

```
curl --location --request GET "http://localhost:9200/cf_etf_pipeline/_doc/1"
```

POST simulate_pipeline_ad_hoc_kv_processor

http://localhost:9200/_ingest/pipeline/_simulate

```
Content-Type
application/json
accept
application/json
BODY
```

simulate_pipeline_ad_hoc_kv_processor

```
curl --location --request POST "http://localhost:9200/_ingest/pipeline/_simulate" --
header "Content-Type: application/json" --header "accept: application/json" --data
$'{ \"pipeline\": { \"description\":\"kv processor demo\", \"processors\":[ {\"kv\":
{ \"field\": \"input_field\", \"field_split\":\",\", \"value_split\":\","
\"target_field\": \"output_field\", \"trim_key\":\" \", \"trim_value\":\" \" }},
{ \"remove\" : { \"field\": [\"input_field\"]}} ] }, \"docs\" :[ {\"_source\":
{\"input_field\":\" a:b , c:d \"}} ] }'
```

POST simulate_pipeline_grok_processor

http://localhost:9200/_ingest/pipeline/_simulate

HEADERS

```
Content-Type
application/json
accept
application/json
BODY
```

Example Request

simulate_pipeline_grok_processor

```
curl --location --request POST "http://localhost:9200/_ingest/pipeline/_simulate" --
header "Content-Type: application/json" --header "accept: application/json" --data
$'{ \"pipeline\": { \"description\":\"grok processor demo\",
\"processors\":[ {\"grok\": { \"field\": \"message\", \"patterns\":
[\"\\\[%{TIMESTAMP_ISO8601:timestamp}\\\\]\\\[%{LOGLEVEL:log-
level}%{SPACE}\\\\]\\\[%{JAVACLASS:class}\\\\]%{SPACE}\\\\[%{DATA:node}\\\\]%{SPACE}\\\[%{DATA:index_doc}\\\\]%{GREEDYDATA:action}\"], \"ignore_missing\": true }},
{\"remove\": {\"field\":[\"message\"]}} ] }, \"docs\" :[ {\"_source\":
{\"message\":\"[2019-06-20T00:04:58,856][INFO ][o.e.c.m.MetaDataDeleteIndexService]
[WTW.local] [cf_etf/RiYRsKyxTGStNcHczbUxcQ] deleting index\"}} ] }'
```

POST simulate_pipeline_dissect_processor

http://localhost:9200/_ingest/pipeline/_simulate

```
HEADERS
```

```
Content-Type
application/json
accept
application/json
BODY
```

Example Request

simulate_pipeline_dissect_processor

```
curl --location --request POST "http://localhost:9200/_ingest/pipeline/_simulate" --
header "Content-Type: application/json" --header "accept: application/json" --data
$'{ \"pipeline\": { \"description\":\"dissect processor demo\",
\"processors\":[ {\"dissect\": { \"field\": \"message\", \"pattern\":
\"[%{timestamp}][%{log-level}][%{class}] [%{node}] [%{index_doc}]%{action}\",
\"ignore_missing\": true }}, {\"remove\": {\"field\":[\"message\"]}}]} ]},
```

```
\"docs\" :[ {\"_source\": {\"message\":\"[2019-06-
20T00:04:58,856][INFO ][o.e.c.m.MetaDataDeleteIndexService] [WTW.local]
[cf_etf/RiYRsKyxTGStNcHczbUxcQ] deleting index\"}} ] }'
```

POST simulate pipeline simple conditional execution

http://localhost:9200/_ingest/pipeline/_simulate

```
Content-Type
application/json
accept
application/json
BODY
```

```
curl --location --request POST "http://localhost:9200/_ingest/pipeline/_simulate" --
header "Content-Type: application/json" --header "accept: application/json" --data
$'{ \"pipeline\": { \"description\":\"remove the rating field is the rating is equal
to a single space string\", \"processors\":[{ \"remove\": { \"field\": \"rating\",
\"if\": \"ctx.rating == \' \'\" } }] }, \"docs\" :[ {\"_source\":
{\"symbol\":\"AGT\",\"fund_name\":\"iShares MSCI Argentina and Global Exposure
ETF\",\"rating\":\" \",\"morningstar_category\":\"Miscellaneous
Region\",\"category\":\"International\",\"family\":\"iShares\",\"market_cap\":\"mid\",
\"description\":\"The investment seeks to track the investment results of the MSCI All
Argentina 25\\/50 Index (the \\\\\"underlying index\\\\\").\\\ The fund generally
will invest at least 90% of its assets in the component securities of the underlying
index and in investments that have economic characteristics that are substantially
identical to the component securities of the underlying index. The index is designed
to measure the broad Argentina equity universe, while including a minimum number of
constituents, as defined by MSCI, Inc. (the \\\\\"index provider\\\\\" or
\\\\\"MSCI\\\\"). The fund is non-diversified.\",\"exchange\":\"Cboe Global
Markets EDGX\"}} ] }'
```

POST get_document_empty_rating_from_cf_etf

http://localhost:9200/cf_etf/_search

HEADERS

Content-Type
application/json
accept
application/json
BODY

Example Request

get document empty rating from cf etf

```
curl --location --request POST "http://localhost:9200/cf_etf/_search" --header
"Content-Type: application/json" --header "accept: application/json" --data
$'{ \"query\": { \"match\": { \"symbol\":\"AGT\" } } }'
```

POST simulate_pipeline_conditional_execution_null_safe_operator

http://localhost:9200/_ingest/pipeline/_simulate

HEADERS

Content-Type
application/json
accept
application/json
BODY

Example Request

simulate_pipeline_conditional_execution_null_safe_operator

```
curl --location --request POST "http://localhost:9200/_ingest/pipeline/_simulate" --
header "Content-Type: application/json" --header "accept: application/json" --data
$'{ \"pipeline\": { \"description\":\"calculate the range of high and low and divide
```

```
by the close price\", \"processors\":[ {\"set\":{ \"field\": \"new_id\", \"value\":
\"{{id}}\", \"if\": \"ctx.parent?.child != null\" }} ] }, \"docs\" :[ {\"_source\":
{\"id\":1, \"parent\": {\"child\":\"value\"}}}, {\"_source\": {\"id\":2, \"parent\":
{}}}, {\"_source\": {\"id\":3}} ] }'
```

PUT define_for_market_cap__null_processor

http://localhost:9200/_ingest/pipeline/for_market_cap_null_processor

HEADERS

Content-Type
application/json
accept
application/json
BODY

Example Request

define_for_market_cap__null_processor

```
curl --location --request PUT
"http://localhost:9200/_ingest/pipeline/for_market_cap_null_processor" --header
"Content-Type: application/json" --header "accept: application/json" --data
$'{ \"description\":\"for_market_cap_null_processor\",
\"processors\":[ {\"set\":{ \"field\": \"market_cap_type\", \"value\":
\"no_market_cap_ETF\" }} ] }'
```

PUT define_for_market_cap_processor

http://localhost:9200/_ingest/pipeline/for_market_cap_processor

HEADERS

```
Content-Type
application/json
accept
application/json
BODY
```

Example Request

define_for_market_cap_processor

```
curl --location --request PUT
"http://localhost:9200/_ingest/pipeline/for_market_cap_processor" --header "Content-
Type: application/json" --header "accept: application/json" --data
$'{ \"description\":\"for_market_cap_processor\",
\"processors\":[ {\"set\":{ \"field\": \"market_cap_type\", \"value\":
\"market_cap_ETF\" }} ] }'
```

GET symbo_bil_market_cap_null_etf

http://localhost:9200/cf_etf/_search?q=symbol:BIL

HEADERS

Content-Type
application/json
accept
application/json
PARAMS

symbol:BIL

Example Request

symbo_bil_market_cap_null_etf

```
curl --location --request GET "http://localhost:9200/cf_etf/_search?q=symbol:BIL" --
header "Content-Type: application/json" --header "accept: application/json"
```

POST simulate_pipeline_conditional_execution_switch_case

http://localhost:9200/_ingest/pipeline/_simulate

HEADERS

Content-Type
application/json
accept
application/json
BODY

simulate_pipeline_conditional_execution_switch_case

```
curl --location --request POST "http://localhost:9200/_ingest/pipeline/_simulate" --
header "Content-Type: application/json" --header "accept: application/json" --data
$'{ \"pipeline\": { \"description\":\"calculate the range of high and low and divide
by the close price\", \"processors\":[ {\"pipeline\":{ \"name\":
\"for_market_cap_null_processor\", \"if\": \"ctx.market_cap == null\" }},
{\"pipeline\":{ \"name\": \"for_market_cap_processor\", \"if\": \"ctx.market_cap !=
null\" }} ], \"docs\" :[ {\"_source\": {\"id\":1, \"market_cap\": null}},
{\"_source\": {\"id\":2, \"market_cap\": \"large\"}} ]}'
```

POST simulate_pipeline_hit_exception_error

http://localhost:9200/_ingest/pipeline/_simulate

HEADERS

Content-Type
application/json
accept
application/json
BODY

simulate_pipeline_hit_exception_error

```
curl --location --request POST "http://localhost:9200/_ingest/pipeline/_simulate" --
header "Content-Type: application/json" --header "accept: application/json" --data
$'{ \"pipeline\": { \"description\":\"test parameter on_failure when error occurs\",
\"processors\":[{ \"remove\": { \"field\": \"rating\", \"on_failure\": [ {\"set\":
{ \"field\": \"error\", \"value\":-1}}, {\"set\": { \"field\": \"message\",
\"value\":\"remove processor failure: {{ _ingest.on_failure_message }}\"}} ] } ] },
\"docs\" :[ {\"_source\": {\"id\":3}} ] }'
```

CHAPTER9