> 所有操作使用shell脚本方式执行

1. 创建指定mapping文件

```
more ./create/es_reg_user_goods_article_recommend_mapping.json

{
            "et_reg_user_goods_article_recommend" : {
                    "properties" : {
                            "user_id" : {"type" : "long", "store":
"yes"},
                            "article_ids" : {"type" : "string",
"store": "yes", "index": "not_analyzed"},
                            "create_date" : {"type" : "string",
"store": "yes", "index": "not_analyzed"}
                    }
            }
}
```

2. 在ES中创建索引

```
# del index
# 删除索引
curl -XDELETE http://192.168.1.1:9200/es_reg_user_article_recommend

# create index
# 创建索引
curl -XPUT http://192.168.1.1:9200/es_reg_user_goods_article_recommend/ -
d'
{
        "mappings" : {
                "_default_" : {
                        "dynamic" : "strict"
                }
        }
}'

# create alias
# 创建别名
curl -XPOST 'http://192.168.1.181:9200/_aliases' -d'
```

```
{
        "actions" : [{ "add" : { "index" :
"es_reg_user_goods_article_recommend", "alias" :
"reg_user_goods_article_recommend_index"}}]
}'

# modify alias
# 修改别名
curl -XPOST 'http://192.168.1.137:9200/_aliases' -d'
{
        "actions" : [
                { "remove" : { "index" : "es_reg_user_article_recommend",
"alias" : "reg_user_article_recommend_index" }},
                { "add" : { "index" : "es_reg_user_article_recommend_new",
"alias" : "reg_user_article_recommend_index"}}
        ]
}'

# create mapping
# 创建mapping
curl -XPUT
http://192.168.1.181:9200/es_reg_user_goods_article_recommend/et_reg_user_
goods_article_recommend/_mapping?pretty -d
@/opt/DATA/goldmine/src/mining/user_recommend_mining/goods_article_recomme
nd/create/es_reg_user_goods_article_recommend_mapping.
json
```

3. 创建 HIVE 表

```
more ./create/hive_to_es_reg_user_goods_article_recommend.sh


#!/bin/sh
###
# 1. del jar
hadoop fs -rm /user/hive/warehouse/jars/elasticsearch-hadoop-2.4.1.jar

# 2. put jar
hadoop fs -put /usr/local/goldmine/hive/default/dg-lib/elasticsearch-
hadoop-2.4.1.jar /user/hive/warehouse/jars/

# 3. create index
sh create_es_reg_user_article_recommend_mapping
```

```
###
#--org.apache.commons.httpclient_3.1.0.v201012070820.jar这个jar包一般是不
用加的，除非在报httpclient相关错误的时候才加
#add jar
hdfs:/opt/data/jar/org.apache.commons.httpclient_3.1.0.v201012070820.jar;\

# 4. create table
# /usr/local/goldmine/hive/default/dg-lib/elasticsearch-hadoop-2.4.1.jar
reg_user_goods_article_recommend_create_table="add jar
hdfs:/user/hive/warehouse/jars/elasticsearch-hadoop-2.4.1.jar;\
        create external table if not exists
des_reg_user_goods_article_recommend(
                user_id bigint,
                article_ids string,
                create_date string
        )
        STORED BY 'org.elasticsearch.hadoop.hive.EsStorageHandler'
        TBLPROPERTIES(
                'es.nodes'='192.168.1.181:9200',
                'es.resource' =
'es_reg_user_goods_article_recommend/et_reg_user_goods_article_recommend',
                'es.index.auto.create'='false',
                'es.mapping.id'='user_id',

'es.mapping.names'='article_ids:article_ids,create_date:create_date');"
#        --es.resource斜线前面为索引，斜线后面为mapping名称。mapping可以不用
事先建好，当数据插入时会自动根据数据类型创建mapping。

hive -e "${reg_user_goods_article_recommend_create_table}"
```