hive关联es, json嵌套, struct, arry 等特殊类型数据处理

使用Hive读写ElasticSearch中的数据 http://blog.ask3.cn/2253.html

嵌套的数据从官网和google都没有找到答案,现在终于解决了。

json嵌套需要安装

<u>Hive-JSON-Serde</u>

举例:

es数据

```
"_index": "rule_task_param",
"_type": "fqd_ascore",
"id": "AVtXXR29bAbb6cOHQQE4",
" score": 1,
"_source": {
        "appName": "rca",
        "appRequestId": "1f11a99b_af84_4d23_b870_92228fa01216",
        "curStepBean": "4cc503d8_a730_42dc_a850_eec805372293",
        "curStepId": 1820290,
        "curStepName": "脚本:分期ASCORE_总分",
        "curTime": 1491818645234,
        "execMode": "NO TEST",
        "inputParam": {
                "rec_fst_call": 95,
                "borrow_nid": "201704101701021818328178",
                "name_length": 3,
                "company_address": "鄂尔多斯工务段",
                "job office": "线路工",
               "id_card_6": "152222",
                "job_city": "鄂尔多斯",
                "phone_district": "",
                "diploma": "-9999",
                "job_district": "东胜区",
               "all_record_reg_num": 1,
                "test": "SUCCESS",
                "education_degree_w": "大专",
```

```
"link_cus_same_prov_num": 59,
        "job_province": "内蒙古自治区",
        "graduate_school_level": 0,
       "record_in_ratio": 0.33,
        "user_id": "12964128",
        "company_name": "呼和浩特铁路局",
       "id_card_province": "内蒙古自治区",
        "credit_succ_cards": -1,
        "income": 8000,
       "id_card_district": "兴安盟",
        "user_id_num": "8",
        "gender": 1,
       "id_card_city": "兴安盟",
       "job_tel": "04716968741",
       "is_full_time": 0,
        "lxr_nounique_num": 0,
        "current_borrow_time_1": 1491818328,
        "current_borrow_time_2": 1491818328,
        "phone_city": "包头",
        "sex": 1,
       "id_prov_district": "华北",
        "job_tel_same_number_cnt": 1,
        "phone_province": "内蒙古",
        "job_tel_big_result": 0,
        "max_login_gap": 34511,
        "age": 20
},
"ipAddress": "10.15.12.13",
"outputParam": {
       "fqd_ascore": 399,
       "fqd_ascore_detail": [
               -9
               40
               53
               43
               22
               41
               49
               41
```

```
,
60
,
27
,
32
]
},
"productType": "fqd_ascore",
"ruleVersion": "20161230181143",
"taskId": 1133976,
"taskTime": "20170410180405"
}
```

hive关联es

```
jar hdfs://boss/user/admin/jar/json-serde-1.3.7-jar-with-dependencies.jar;
add
     jar hdfs://boss/user/admin/jar/json-udf-1.3.7-jar-with-dependencies.jar;
add
drop TABLE if exists rule_task_param;
CREATE EXTERNAL TABLE rule_task_param (
appName string,
appRequestId string,
curStepBean string,
curStepId bigint,
curStepName string,
curTime bigint,
execMode string,
inputParam struct<</pre>
rec_fst_call:string,
borrow_nid:string,
name_length:string,
company_address:string,
job_office:string,
id_card_6:string,
job_city:string,
phone_district:string,
diploma:string,
job_district:string,
all_record_reg_num:string,
test:string,
education_degree_w:string,
link_cus_same_prov_num:string,
job_province:string,
```

```
graduate_school_level:string,
record_in_ratio:string,
user_id:string,
company_name:string,
id_card_province:string,
credit_succ_cards:string,
income:string,
id_card_district:string,
user_id_num:string,
gender:string,
id_card_city:string,
job_tel:string,
is_full_time:string,
lxr_nounique_num:string,
current_borrow_time_1:string,
current_borrow_time_2:string,
phone_city:string,
sex:string,
id_prov_district:string,
job_tel_same_number_cnt:string,
phone_province:string,
job_tel_big_result:string,
max_login_gap:string,
age:string
>,
borrow_nid string,
ipAddress string,
outputParam struct<
fqd_ascore:string,
fqd_ascore_detail:array<string>
productType string,
ruleVersion string,
taskId bigint,
taskTime string
ROW FORMAT SERDE 'org. openx. data. jsonserde. JsonSerDe'
STORED BY 'org. elasticsearch. hadoop. hive. EsStorageHandler'
TBLPROPERTIES (
'es. nodes' =
10. 15. 46. 111:9200, 10. 15. 182. 137:9200, 10. 15. 192. 236:9200, 10. 15. 148. 40:9200, 10. 15. 127. 143:9200,
'es. index. auto. create' = 'false',
'es.resource' = 'rule_task_param',
'es.output.json' = 'true',
es.mapping.names' = 'cookieid:_metadata._id, appName:appName, appRequestId:appRequestId,
curStepBean:curStepBean, curStepId:curStepId ,curStepName:curStepName ,curTime:curTime
```

, execMode:execMode, inputParam:inputParam, borrow_nid:borrow_nid, ipAddress:ipAddress, outputParam:outputParaselect inputParam.borrow_nid, outputParam.fqd_ascore_detail[0],* from rule_task_param where inputParam.rec_fst_call=-1 limit 10;

使用:

select inputParam.borrow_nid ,outputParam.fqd_ascore_detail[0],* from rule_task_param where inputParam.rec_fst_call=-1 limit 10;