1、multivalue field多种混合类型

例：{ "tags":["tag1","tag2"]}
建立索引时与string是一样的，数据类型不能混

2、empty field 空类型

null, [], [null]

3、object field 对象数据类型

例如下是 dynamic mapping es根据数据自动生成的 mapping 结构

```
1  {
2    "world": {
3      "mappings": {
4        "people": {
5          "properties": {
6            "addr": {
7              "properties": {
8                "city": {
9                  "type": "text",
10                 "fields": {
11                   "keyword": {
12                     "type": "keyword",
13                     "ignore_above": 256
14                   }
15                 }
16               },
17               "country": {
18                 "type": "text",
19                 "fields": {
20                   "keyword": {
21                     "type": "keyword",
22                     "ignore_above": 256
23                   }
24                 }
25               },
26               "province": {
```

```
27                    "type": "text",
28                    "fields": {
29                      "keyword": {
30                        "type": "keyword",
31                        "ignore_above": 256
32                      }
33                    }
34                  }
35                }
36              },
37              "age": {
38                "type": "long"
39              },
40              "name": {
41                "type": "text",
42                "fields": {
43                  "keyword": {
44                    "type": "keyword",
45                    "ignore_above": 256
46                  }
47                }
48              },
49              "sex": {
50                "type": "text",
51                "fields": {
52                  "keyword": {
53                    "type": "keyword",
54                    "ignore_above": 256
55                  }
56                }
57              }
58            }
59          }
60        }
61      }
62 }
```

数据串（创建时候直接嵌套即可）

```
1  POST world/people
2  {
3    "addr":{
4      "country":"China",
5      "province":"jiangxi",
6      "city":"nanchang"
```

```
7      },
8      "age":22,
9      "sex":"male",
10     "name":"daiwei"
11  }
```

4、es 底层数据存储结构

例如 上面 people 数据在底层的存储

```
1  {
2      "name":     ["daiwei","",....],
3      "age":      [22, , ....],
4      "sex":      ["male","",....],
5      "addr.country":    ["China","",....],
6      "addr.province":   ["jiangxi","",....],
7      "addr.city":       ["nanchang","",....]
8  }
```

如果有多个 数据会以一个数组的存放
从横向存储转变为列式，存储，一列存储在一起。。