

Modeling Data

modeling\_data.txt

# Relationships

## Problem



### Solutions

- Join
- Denormalization
- Nested object
- Parent/Child

### Join

Create user document

```
PUT /blog/user/1
{
   "name" : "somkiat",
   "email": "somkiat.p@gmail.com"
}
```

### Join

Create post document

```
PUT /blog/post/1
{
   "title": "Hello relationship",
   "body": "Hi, all",
   "user": 1
}
```

#### Denomalization

```
PUT /blog/post/1
 "title": "Hello relationship",
 "body": "Hi, all",
 "user": {
  "id": 1,
  "name": "somkiat",
  "email": "somkiat.p@gmail.com"
```

#### Denomalization

Search blog post by user & title

## Workshop with problem

Search + Count # of blog post by username

```
GET /blog/post/_search
                                       "aggregations": {
                                           "users": {
GET /blog/post/_search
                                             "doc_count_error_upper_bound": 0,
                                              sum_other_doc_count : v,
                                              "buckets":
                                                   "key": "somkiat",
 "aggs": {
                                                   "doc_count": 3
  "users": {
                                                },
    "terms": {
                                                   "key": "puisungnoen",
     "field": "user.name"
                                                   "doc_count": 2
                                                },
                                                   "key": "unknown",
                                                   "doc_count": 1
```

## Expected result

Search + Count # of blog post by username

```
"aggregations": {
   "users": {
      "doc_count_error_upper_bound": 0,
      "sum_other_doc_count": 0,
      "buckets": [
            "key": "somkiat puisungnoen",
            "doc_count": 2
            "key": "somkiat unknown",
            "doc_count": 1
```

### Solutions

- Update mapping of post
- Reindex data
- Try to query

## Update mapping

```
PUT /blog/_mapping/post
 "properties": {
  "user": {
    "properties": {
     "name": {
      "type": "string",
      "fields": {
         "type": "string",
         "index": "not_analyzed"
        }}}}}
```