```
1.

{
    "_id": OBJECTID,
    "text": STRING,
    "title": STRING,
    "num_chars": INTEGER,
    "date": DATE,
    "category": STRING,
    "terms": [
        {
            "term": STRING,
            "term_count": INTEGER
        }
    ]
}
```

```
2.
a) db.documents.countDocuments();
b) db.documents.find({ category: "Sports" }, {projection: { text: 1 }})
c) db.documents.aggregate([
        { $unwind: "$terms" },
        { $group: { _id: "$terms.term", count: { $sum: 1}}},
        { $project: { _id: 0, term: "$_id"}}
])
d) db.documents.aggregate([
        { $match: { title: "Arizona"}},
        { $unwind: "$terms" },
        { $group: {_id: null, count: { $sum: "$terms.term_count"}}}
])
e) db.documents.aggregate([
        { $match: { category: "Seasons"}},
        { $unwind: "$terms" },
        { $group: {_id: null, count: { $sum: "$terms.term_count"}}}
])
f) db.documents.aggregate([
        { $unwind: "$terms"},
        { $match: { term: "months"}},
        { $group: {_id: null, count: { $sum: "$terms.term_count"}}}
])
g) db.documents.aggregate([
        { $unwind: "$terms"},
        { $group: {_id: "$_id", count: { $sum: "$terms.term_count"}}},
        { $sort: {count: -1}},
        { $limit: 1 }
])
h) db.documents.aggregate([
        { $unwind: "$terms"},
        { $group: {_id: "$terms.term", count: { $sum: "$terms.term_count"}}},
        { $sort: {count: -1}},
        { $limit: 1 }
])
```

3. nicholas-a-karle/WSRHW3 (github.com)