

Bronco ID:

0

1

5

2

6

2

6

2

4

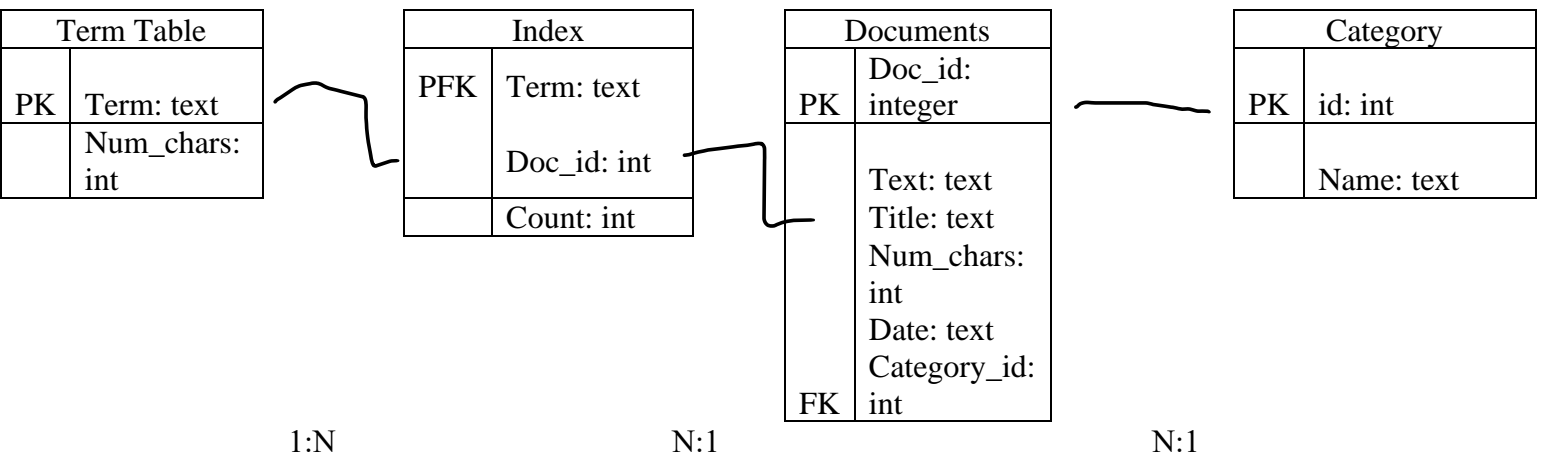
Last Name:

Nguyen

First Name:

Loc

1. Logical View of DB



2a. SELECT COUNT(*) FROM Documents

2b. SELECT COUNT(*) FROM Documents JOIN Category ON Documents.category_id = Category.id WHERE Category.name = "Sports"

2c. SELECT DISTINCT count(Term) FROM Index

2d. SELECT COUNT(*) FROM Index JOIN Documents ON Index.Doc_id = Documents.Doc_id WHERE Documents.title = "Arizona"

2e. SELECT COUNT(*) FROM Index JOIN Documents ON Index.Doc_id = Documents.Doc_id JOIN Category ON Documents.category_id = Category.id WHERE Category.name = "Seasons"

2f. SELECT SUM(count) FROM Index WHERE term = "months"

2g. SELECT Documents.title, SUM(Index.count) FROM Index JOIN Documents ON Index.Doc_id = Documents.Doc_id HAVING MAX(SUM(Index.count)) WHERE Index.Doc_id = Documents.Doc_id

2h. SELECT Index.term, SUM(Index.count) FROM Index JOIN Documents ON Index.Doc_id = Documents.Doc_id WHERE Index.Doc_id = Documents.Doc_id HAVING MAX(SUM(Index.count))

3. https://github.com/Skyhorizon2021/CS4250/blob/master/Assignment2/db_connection.py

4. MongoDB Modeling

Document

```
{
  "Doc_id": int
  "Text": text
  "Title": text
  "Num-chars": int
  "Date": text
  "Category": text
  "Index": [
    {
      "term_1": text, "num_chars": int, "count": int
    },
    {
      "term 2": text, "num_chars": int, "count": int
    }
  ]
}
```

5a. db.Documents.aggregate([{\$count: "total"}])

5b. db.Documents.aggregate([{\$match: {"Category": "Sport"}},{\$count: "Doc_from_Sports"}])

5c. db.Documents.distinct("Index",[{\$count: "distinct"}])

5d. db.Documents.aggregate([{\$match: {"title": "Arizona"}},{\$count: "total"}])

5e. db.Documents.aggregate([{\$match: {"Category": "Seasons"}},{\$count: "total"}])

5f. db.Documents.aggregate([{\$match: {"Index": "months"}, "total": {\$sum: '\$count'}}])

5g. db.Documents.aggregate([{"total": \$max: [{\$sum: '\$count'}], \$group: {"tittle": text, "total": "": \$max: [{\$sum: '\$count'}]}}])

5h. db.Documents.aggregate("Index", {"total": \$max: [{\$sum: '\$count'}]},
{\$group: {"Index"["term"]": text, "total": "": \$max: [{\$sum: '\$count'}]}})

6.

https://github.com/Skyhorizon2021/CS4250/blob/master/Assignment2/db_connection_mongo.py