

Big Data Analytics (2CS702)

Practical 8

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AIM : to perform CRUD operations on Restaurants dataset using MongoDB.

View Dataset :

The screenshot shows the MongoDB Compass interface for the 'restaurants' collection. The left sidebar lists databases and collections, with 'restaurants' selected. The main area shows the 'Documents' tab with a search bar and a list of documents. The documents are displayed in a JSON format, showing fields like _id, address, borough, cuisine, grades, name, and restaurant_id.

restaurants.restaurants 3.8k DOCUMENTS 1 INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

Filter Type a query: { field: 'value' } Reset Find More Options

ADD DATA EXPORT COLLECTION 1 - 20 of 3772

```
{
  "_id": ObjectId('637e05ef333a91d655f6b9d7'),
  "address": {
    "borough": "Bronx",
    "cuisine": "Bakery",
    "grades": [
      "Morris Park Bake Shop"
    ],
    "restaurant_id": "30075445"
  }
}
```

```
{
  "_id": ObjectId('637e05ef333a91d655f6b9d8'),
  "address": {
    "borough": "Brooklyn",
    "cuisine": "Hamburgers",
    "grades": [
      "Wendy'S"
    ],
    "restaurant_id": "30112340"
  }
}
```

```
{
  "_id": ObjectId('637e05ef333a91d655f6b9d9'),
  "address": {
    "borough": "Manhattan",
    "cuisine": "Irish",
    "grades": [
      "Dj Reynolds Pub And Restaurant"
    ],
    "restaurant_id": "30191841"
  }
}
```

View Data:

```
> db.restaurants.find()
<
> db
< test
> use restaurants
< 'switched to db restaurants'
> db.restaurants.find()
< { _id: ObjectId("637e05ef333a91d655f6b9d7"),
  address:
    { building: '1007',
      coord: [ -73.856077, 40.848447 ],
      street: 'Morris Park Ave',
      zipcode: '10462' },
  borough: 'Bronx',
  cuisine: 'Bakery',
  grades:
    [ { date: 2014-03-03T00:00:00.000Z, grade: 'A', score: 2 },
      { date: 2013-09-11T00:00:00.000Z, grade: 'A', score: 6 },
      { date: 2013-01-24T00:00:00.000Z, grade: 'A', score: 10 },
      { date: 2011-11-23T00:00:00.000Z, grade: 'A', score: 9 },
      { date: 2011-03-10T00:00:00.000Z, grade: 'B', score: 14 } ],
  name: 'Morris Park Bake Shop',
  restaurant_id: '30075445' }
{ _id: ObjectId("637e05ef333a91d655f6b9d8"),
  address:
    { building: '1469',
```

Insert One Field :

```
> db.restaurants.insertOne ({ "address": { "street" : "2 Avenue", "zipcode" : "10075",
  "building" : "1480", "coord" : [ -73.9557413, 40.7720266 ], }, "borough" :
  "Manhattan", "cuisine" : "Italian", "grades" : [ { "date":
  ISODate ("2014-10-01T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date":
  ISODate ("2014-01-16T00:00:00.00Z"), "grade" : "B", "score" : 17 } ], "name" :
  "TEJAS DOBARIYA", "restaurant_id" : "41704620cls" } )
< { acknowledged: true,
  insertedId: ObjectId("6386495471cae09af3bdb8ed") }
restaurants> |
```

Read data Form Database:

```
> db.restaurants.find({"name": "TEJAS DOBARIYA"}).pretty()
< { _id: ObjectId("6386495471cae09af3bdb8ed"),
  address:
    { street: '2 Avenue',
      zipcode: '10075',
      building: '1480',
      coord: [ -73.9557413, 40.7720266 ] },
  borough: 'Manhattan',
  cuisine: 'Italian',
  grades:
    [ { date: 2014-10-01T00:00:00.000Z, grade: 'A', score: 11 },
      { date: 2014-01-16T00:00:00.000Z, grade: 'B', score: 17 } ],
  name: 'TEJAS DOBARIYA',
  restaurant_id: '41704620cls' }
restaurants> |
```

Updating database :

```
> db.restaurants.updateOne({"name":"100 menu"},{ $set: {"cuisine":"American new one"}, $currentDate:{"lastModified":true}})
< { acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0 }
restaurants> |
```

Delete Operation :

```
> db.runCommand( { delete: "orders", deletes: [ { q: { status: "D" }, limit: 1 } ] } )
< { n: 0, ok: 1 }
```