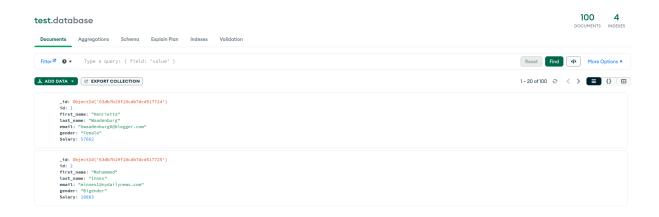
MongoDB Assignment

- 1) Batch Create with minimum 100 records in MongoDb (create batch).
- 1.MongoDB Output:-



2. Terminal Output:-

2) Batch Update with minimum 100 records in MongoDB (update batch).

Code:-

```
db.database.updateMany({}, { $inc: { Salary: 10000 } })
```

1.MongoDB Output:-

```
_id: ObjectId('63db7b19f18cdb7dcd517724')
id: 1
first_name: "Henrietta"
last_name: "Waadenburg"
email: "hwaadenburg0@blogger.com"
gender: "Female"
Salary: 67662

_id: ObjectId('63db7b19f18cdb7dcd517725')
id: 2
first_name: "Mohammed"
last_name: "Innes"
email: "minnes1@nydailynews.com"
gender: "Bigender"
Salary: 28883
```

2. Terminal Output:-

3) Perform indexing on particular 3 fields in MongoDB.

Code:-

db.database.find().explain("executionStats")

Before:-

```
executionStats: {
  executionSuccess: true,
  nReturned: 100,
 executionTimeMillis: 0,
 totalKeysExamined: 0,
  totalDocsExamined: 100,
  executionStages: {
    stage: 'COLLSCAN',
    nReturned: 100,
    executionTimeMillisEstimate: 0,
    works: 102,
    advanced: 100,
    needTime: 1,
    needYield: 0,
    saveState: 0,
    restoreState: 0,
    isEOF: 1,
    direction: 'forward',
    docsExamined: 100
```

After:-

```
db.database.createIndex({first_name: 1})
db.database.createIndex({last_name: 1})
db.database.createindex({email: 1})
```

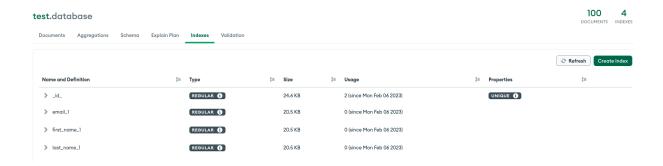
```
database> db.databse.createIndex({first_name:1})
first_name_1
/database> db.databse.createIndex({last_name:1})
last_name_1
database> db.databse.createIndex({email:1})
email_1
```

```
executionStats: {
  executionSuccess: true,
  nReturned: 8,
  executionTimeMillis: 0,
  totalKeysExamined: 9,
  totalDocsExamined: 8,
  executionStages: {
    stage: 'FETCH',
    nReturned: 8,
    executionTimeMillisEstimate: 0,
    works: 10,
    advanced: 8,
    needTime: 1,
    needYield: 0,
    saveState: 0,
    restoreState: 0,
    isEOF: 1,
    docsExamined: 8,
    alreadyHasObj: 0,
    inputStage: {
      stage: 'IXSCAN',
      nReturned: 8,
```

Code:-

db.database.getIndexes()

1.MongoDB Output:-



2.Terminal Output:-

4) Find duplicates using aggregation in MongoDB.

1.MongoDB Output:-

2.Terminal Output:-