Practical-4: INDEXING USING Mangodb

Class:MSC DSAI Roll No:L-09

```
test> use students
switched to db students
students> db.createCollection("studentgrades")
{ ok: 1 }
students> db.studentgrades.insertMany(
... [
... {name: "Barry", subject: "Maths", score: 92},
... {name: "Kent", subject: "Physics", score: 87},
... {name: "Harry", subject: "Maths", score: 99, notes: "Exceptional Performance"},
... {name: "Alex", subject: "Literature", score: 78},
... {name: "Tom", subject: "History", score: 65, notes: "Adequate"}
... )
{
   acknowledged: true,
   insertedIds: {
    '0': ObjectId('678a26ff09f5e0ff63cb0ce2'),
    '1': ObjectId('678a26ff09f5e0ff63cb0ce3'),
    '2': ObjectId('678a26ff09f5e0ff63cb0ce4'),
    '3': ObjectId('678a26ff09f5e0ff63cb0ce5'),
    '4': ObjectId('678a26ff09f5e0ff63cb0ce6')
}
}
```

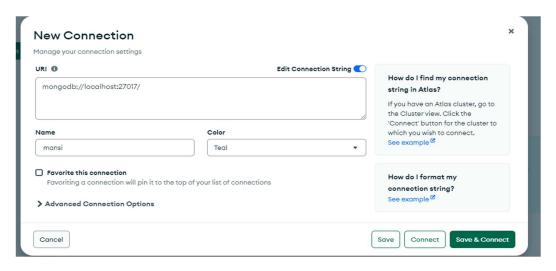
```
students> db.studentgrades.find({},{_id:0})
  { name: 'Barry', subject: 'Maths', score: 92 },
  { name: 'Kent', subject: 'Physics', score: 87 },
   name: 'Harry',
    subject: 'Maths',
    score: 99,
   notes: 'Exceptional Performance'
  { name: 'Alex', subject: 'Literature', score: 78 },
  { name: 'Tom', subject: 'History', score: 65, notes: 'Adequate' }
students> db.studentgrades.find().pretty()
  {
    _id: ObjectId('678a26ff09f5e0ff63cb0ce2'),
   name: 'Barry'
    subject: 'Maths',
    score: 92
    _id: ObjectId('678a26ff09f5e0ff63cb0ce3'),
   name: 'Kent',
    subject: 'Physics',
    score: 87
```

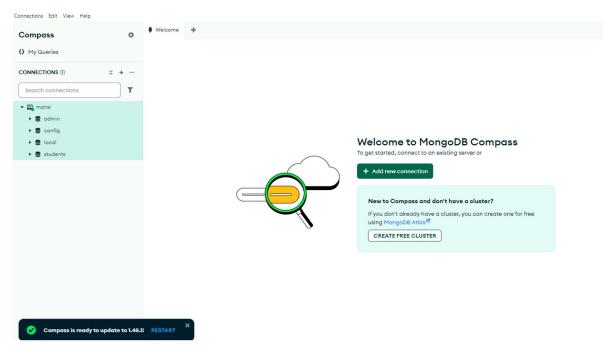
```
_id: ObjectId('678a26ff09f5e0ff63cb0ce4'),
    name: 'Harry',
    subject: 'Maths',
    score: 99,
    notes: 'Exceptional Performance'
},

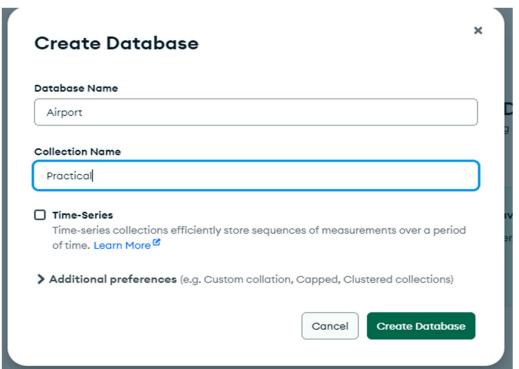
_id: ObjectId('678a26ff09f5e0ff63cb0ce5'),
    name: 'Alex',
    subject: 'Literature',
    score: 78
},

{
    _id: ObjectId('678a26ff09f5e0ff63cb0ce6'),
    name: 'Tom',
    subject: 'History',
    score: 65,
    notes: 'Adequate'
}
```

```
students> db.studentgrades.createIndex( {name: 1}, {name: "student name index"}
student name index
students> db.studentgrades.getIndexes()
  { v: 2, key: { _id: 1 }, name: '_id_' },
{ v: 2, key: { name: 1 }, name: 'student name index' }
students> db.studentgrades.dropIndex("student name index")
{ nIndexesWas: 2, ok: 1 }
students> db.studentgrades.dropIndex({name:1})
MongoServerError[IndexNotFound]: can't find index with key: {    name: 1 }
students> db.studentgrades.createIndex( {name: 1} )
name_1
students> db.studentgrades.dropIndex({name:1})
{ nIndexesWas: 2, ok: 1 }
students> db.studentgrades.dropIndexes()
  nIndexesWas: 1,
  msg: 'non-_id indexes dropped for collection',
  ok: 1
```







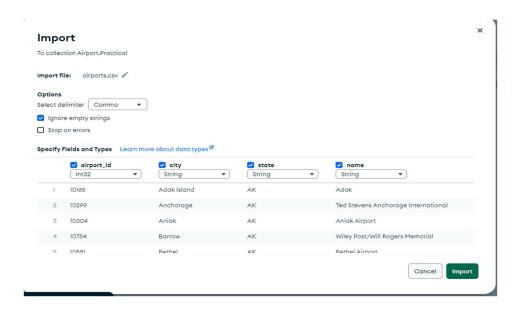


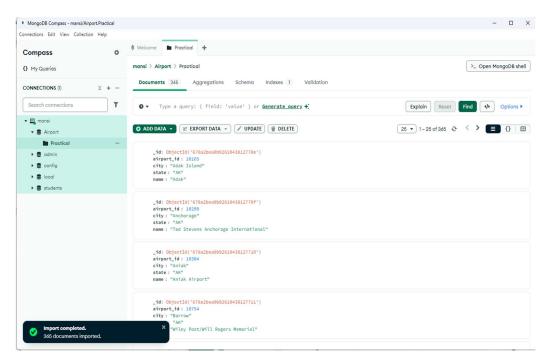
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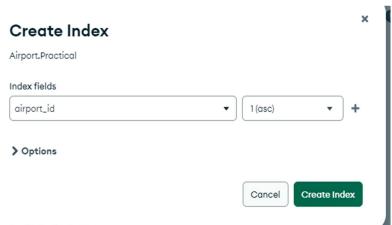
This collection has no data

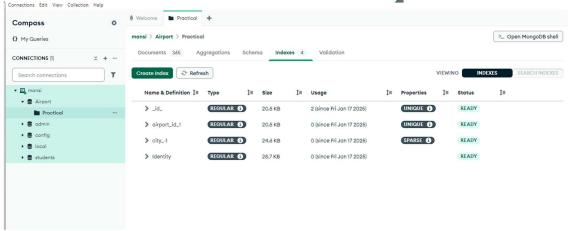
It only takes a few seconds to import data from a JSON or CSV file.

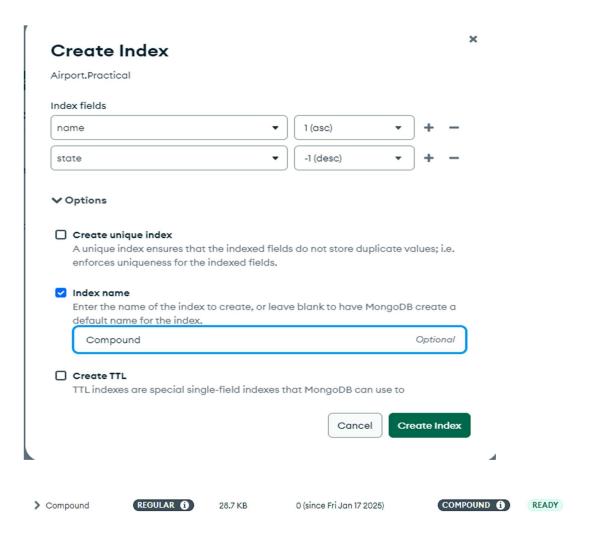
Import Data











Create Index

Airport.Practical

