Use students

Creating collection

```
test> db.createCollection("studentgrades")
{ ok: 1 }
```

Inserting values

```
test> 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('678a268b61309e0a568bf202'),
        '1': ObjectId('678a268b61309e0a568bf203'),
        '2': ObjectId('678a268b61309e0a568bf204'),
        '3': ObjectId('678a268b61309e0a568bf205'),
        '4': ObjectId('678a268b61309e0a568bf206')
}
}
```

Finding values

```
test> db.studentgrades.find().pretty()
  {
    _id: ObjectId('678a268b61309e0a568bf202'),
   name: 'Barry',
    subject: 'Maths',
    score: 92
  },
   _id: ObjectId('678a268b61309e0a568bf203'),
   name: 'Kent',
   subject: 'Physics',
   score: 87
 3,
    _id: ObjectId('678a268b61309e0a568bf204'),
    name: 'Harry',
    subject: 'Maths',
   score: 99,
    notes: 'Exceptional Performance'
  3,
    _id: ObjectId('678a268b61309e0a568bf205'),
   name: 'Alex',
    subject: 'Literature',
    score: 78
 },
    _id: ObjectId('678a268b61309e0a568bf206'),
    name: 'Tom',
   subject: 'History',
   score: 65,
    notes: 'Adequate'
  }
]
```

Creating indexes in mongoDB

```
test> db.studentgrades.createIndex( {name: 1}, {name: "student name index"} )
student name index
```

Finding indexes in mongoDB

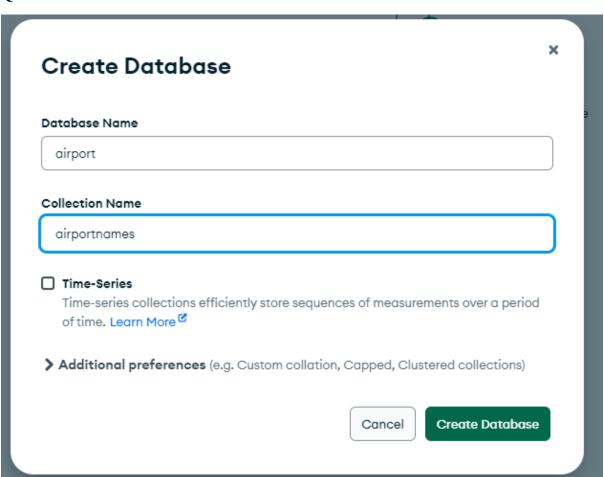
```
test> db.studentgrades.getIndexes()
[
    { v: 2, key: { _id: 1 }, name: '_id_' },
    { v: 2, key: { name: 1 }, name: 'student name index' }
]
```

Drop indexes from collection

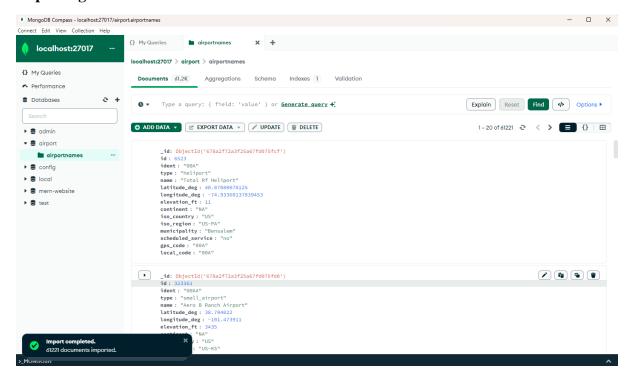
```
test> db.studentgrades.dropIndex("student name index")
{ nIndexesWas: 2, ok: 1 }

test> db.studentgrades.createIndex( {name: 1}, {name: "student name index"} )
student name index
test> db.studentgrades.dropIndex({name:1})
{ nIndexesWas: 2, ok: 1 }
test> db.studentgrades.dropIndexes()
{
   nIndexesWas: 1,
   msg: 'non-_id indexes dropped for collection',
   ok: 1
}
```

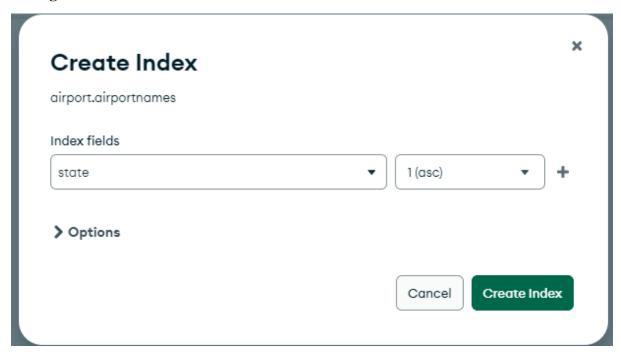
Q2.



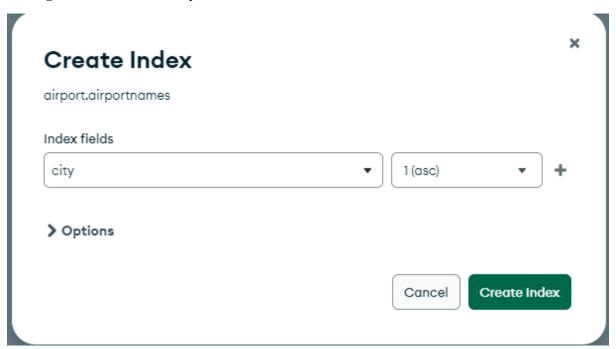
Importing Data



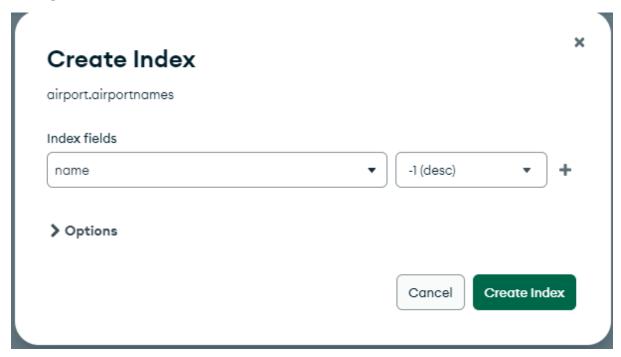
1. Single-Field Index on state



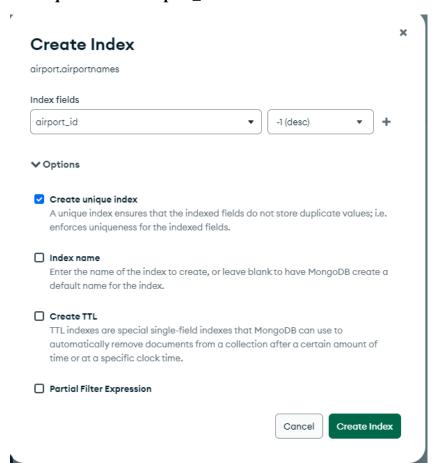
2. Single-Field Index on city



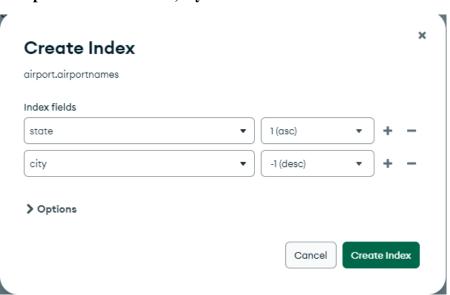
3. Single-Field Index on name



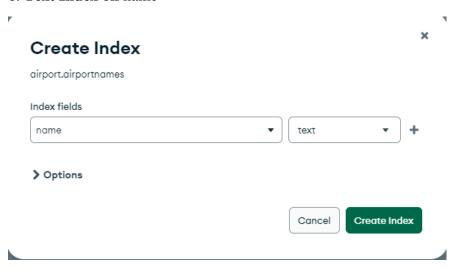
4. Unique Index on airport_id



Compound index on state, city

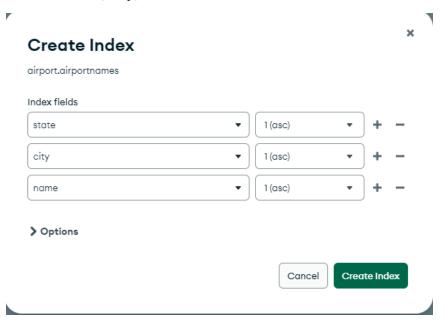


6. Text Index on name

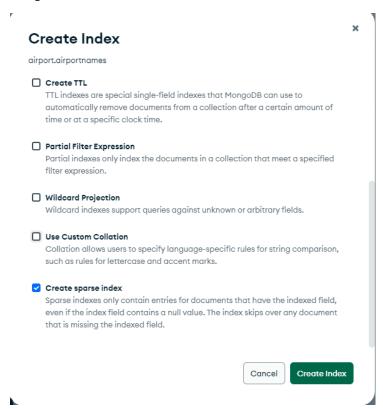


7. Multi-Field Compound Indexes

Index on state, city, and name



8. Spare index



9. TTL index

