Practical 4 MongoDB Indexes

```
C:\Users\Admin>mongosh
test> use students
switched to db students
students>
db.studgrades.insertMany([{name:"Barry",subject:"maths",score:"92"},{name:"Barry",su
bject:"maths",score:"92"},{name:"Kent",subject:"Physics",score:"87"},{name:"harry",su
bject:"maths",score:"99",notes:"exceptional"},{name:"Alex",subject:"Literature",score:"
78"},{name:"Tom",subject:"History",score:"65",notes:"adequate"}]);
 acknowledged: true,
 insertedIds: {
  '0': ObjectId('678a2996c9185666448bf202'),
  '1': ObjectId('678a2996c9185666448bf203'),
  '2': ObjectId('678a2996c9185666448bf204'),
  '3': ObjectId('678a2996c9185666448bf205'),
  '4': ObjectId('678a2996c9185666448bf206'),
  '5': ObjectId('678a2996c9185666448bf207')
 }
students> db.studgrades.find({},{_id:0});
 { name: 'Barry', subject: 'maths', score: '92' },
 { name: 'Barry', subject: 'maths', score: '92' },
 { name: 'Kent', subject: 'Physics', score: '87' },
  name: 'harry',
  subject: 'maths',
  score: '99',
  notes: 'exceptional'
 },
 { name: 'Alex', subject: 'Literature', score: '78' },
 { name: 'Tom', subject: 'History', score: '65', notes: 'adequate' }
students> db.studgrades.find().pretty();
 {
  id: ObjectId('678a2996c9185666448bf202'),
```

name: 'Barry',

```
subject: 'maths',
  score: '92'
 },
  _id: ObjectId('678a2996c9185666448bf203'),
  name: 'Barry',
  subject: 'maths',
  score: '92'
 },
  _id: ObjectId('678a2996c9185666448bf204'),
  name: 'Kent',
  subject: 'Physics',
  score: '87'
 },
 {
  _id: ObjectId('678a2996c9185666448bf205'),
  name: 'harry',
  subject: 'maths',
  score: '99',
  notes: 'exceptional'
 },
  _id: ObjectId('678a2996c9185666448bf206'),
  name: 'Alex',
  subject: 'Literature',
  score: '78'
 },
  _id: ObjectId('678a2996c9185666448bf207'),
  name: 'Tom',
  subject: 'History',
  score: '65',
  notes: 'adequate'
 }
1
students> db.studgrades.createIndex({name:1},{name:"student name index"});
student name index
students> db.studgrades.getIndexes();
 { v: 2, key: { _id: 1 }, name: '_id_' },
 { v: 2, key: { name: 1 }, name: 'student name index' }
```

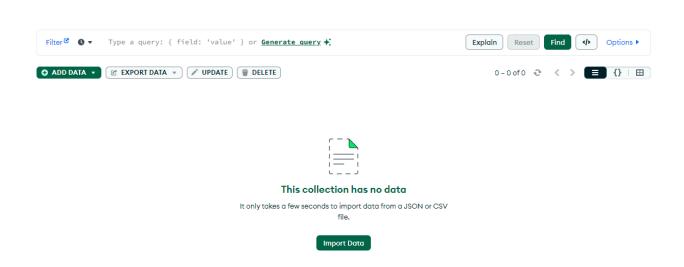
```
students> db.studgrades.dropIndex("student name index"); OR db.studgrades.dropIndex({name:1}); { nIndexesWas: 2, ok: 1 }

students> db.studgrades.dropIndexes(); {
 nIndexesWas: 1,
 msg: 'non-_id indexes dropped for collection',
 ok: 1
}
```

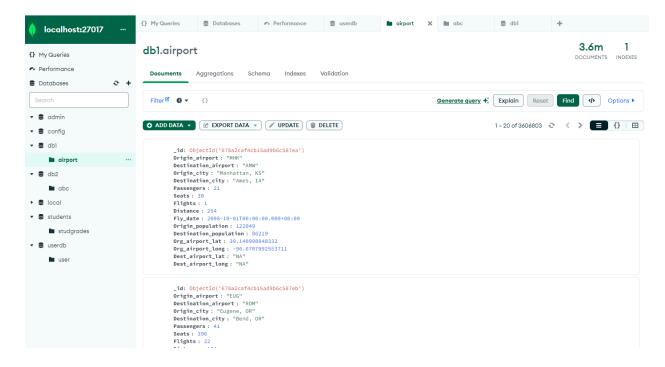
Creating Indexes in MongoDB Compass

1. Create a new database by clicking the + button

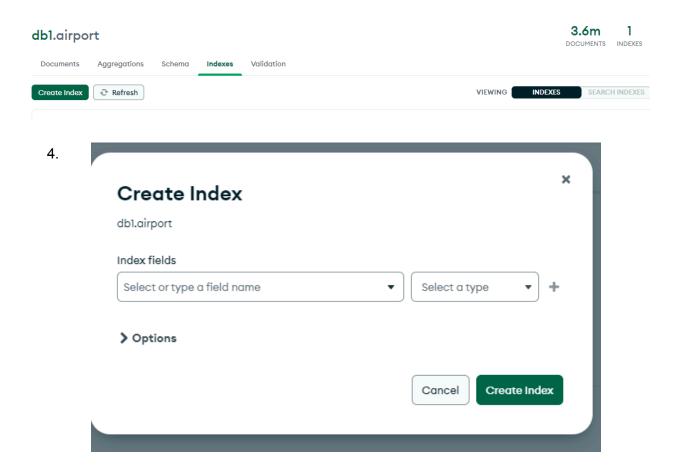




2. Import data



3. Navigate to Indexes and click on create indexes



5. Select any field and type of your choice. You can explore more properties from options.

