

Atelier 3 : MongoDB – Opérations CRUD

PARTIE 1 :

1/

```
> mongoimport --db STUDENTS --collection NOTES --file notes.json --jsonArray
```

2/

```
> db.NOTES.countDocuments();
```

3/

```
db.NOTES.countDocuments({ type: "exam" });
```

4/

```
> db.NOTES.find({ type: "quiz", score: { $lt: 50 } }, { _id: 0, student_id: 1, score: 1 });|
```

5/

```
> db.NOTES.find({ type: "homework" }, { _id: 1, "score": 1 }).sort({ score: 1 });|
```

6/

```
> db.NOTES.insertMany([
...   { student_id: 200, type: "exam", score: 39.15737165675101 },
...   { student_id: 200, type: "quiz", score: 64.28777986675444 },
...   { student_id: 200, type: "homework", score: 17.15638165456321 },
...   { student_id: 200, type: "homework", score: 85.23345595675101 }
... ]);
```

7/

```
> db.NOTES.updateOne({ student_id: 200, type: "exam" }, { $set: { score: 59 } });
```

8/

```
> db.NOTES.updateMany({ student_id: 200 }, { $set: { score: 44 } });|
```

9/

```
> db.NOTES.updateMany({ student_id: 200 }, { $inc: { student_id: 2 } });|
```

10/

```
> db.NOTES.deleteMany({ student_id: 202 });|
```

PARTIE 2 :

1/

```
> mongoimport --db STUDENTS --collection IMAGES --file images.json --jsonArray
```

2/

```
> db.IMAGES.insertOne({ _id: 100000, height: 480, width: 640, tags: ["cats", "dogs", "kittens"] });|
```

3/

```
> db.IMAGES.updateOne( { _id: 9 }, { $addToSet: { tags: "vacation" } } );|
```

4/

```
> db.IMAGES.updateOne( { _id: 7 }, { $set: { "tags.0": "cats" } } );|
```

5/

```
> db.IMAGES.updateOne( { _id: 99977 }, { $pull: { tags: "work" } } );|
```