

Practical - 3 10-01-24 CRUD USING Mongodb

Write-up: -

- NOSQL Vs SQL
- Types of NOSQL
- Document document-oriented NoSQL
- Mongodb
- Mangodb shell
- Basic commands of mongodb

See Databases

```
test> show databases;
admin 40.00 KiB
config 72.00 KiB
local 80.00 KiB
myapp 40.00 KiB
test 72.00 KiB
```

Create Database

```
test> use practical_3; switched to db practical 3
```

Creating a New Collection

```
practical_3> db.createCollection("users");
{ ok: 1 }
```



Inserting Documents in Collection

```
practical 3> db.users.insertOne({
... name: "Angela",
... age: 27,
... });
 acknowledged: true,
 insertedId: ObjectId('6780eb70255313953d6b6f92')
practical 3> db.users.insertMany([
... {name: "Angela",age: 27,},
... {name: "Dwight",age: 30,},
... {name: "Jim",age: 29,}
...]);
 acknowledged: true,
 insertedIds: {
  '0': ObjectId('6780ebac255313953d6b6f93'),
  '1': ObjectId('6780ebac255313953d6b6f94'),
  '2': ObjectId('6780ebac255313953d6b6f95')
Read Data
practical 3> db.users.find()
][
```

id: ObjectId('6780eb70255313953d6b6f92'),

name: 'Angela',

age: 27

```
},
  id: ObjectId('6780ebac255313953d6b6f93'),
  name: 'Angela',
  age: 27
 },
  id: ObjectId('6780ebac255313953d6b6f94'),
  name: 'Dwight',
  age: 30
 { _id: ObjectId('6780ebac255313953d6b6f95'), name: 'Jim', age: 29 }
practical 3> db.users.find().pretty()
  id: ObjectId('6780eb70255313953d6b6f92'),
  name: 'Angela',
  age: 27
  id: ObjectId('6780ebac255313953d6b6f93'),
  name: 'Angela',
  age: 27
  id: ObjectId('6780ebac255313953d6b6f94'),
  name: 'Dwight',
  age: 30
 { id: ObjectId('6780ebac255313953d6b6f95'), name: 'Jim', age: 29 }
```

```
practical 3> db.users.find({ age: { $gt: 29 } }, { name: 1, age: 1 })
  id: ObjectId('6780ebac255313953d6b6f94'),
  name: 'Dwight',
  age: 30
practical 3> db.users.findOne({ name: "Jim" })
{ id: ObjectId('6780ebac255313953d6b6f95'), name: 'Jim', age: 29 }
Update Data
practical 3> db.users.updateOne({ name: "Angela" }, { $set: { email:
"angela@gmail.com" }})
 acknowledged: true,
 insertedId: null,
 matchedCount: 1,
 modifiedCount: 1,
 upsertedCount: 0
practical 3> db.users.updateMany({ age: { $lt: 30 }}, { $set: { status: "active" }})
 acknowledged: true,
 insertedId: null,
 matchedCount: 3,
 modifiedCount: 3,
 upsertedCount: 0
```

Delete Documents

Delete Database

```
practical_3> db.users.drop()
true
practical_3> show databases;
admin 40.00 KiB
config 108.00 KiB
local 80.00 KiB
myapp 40.00 KiB
test 72.00 KiB
```