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Problem Statement: Study of open source NOSQL Database:MongoDB (installation,Basic CRUD Operation ,Execution)

· **Installation**

student@student-Veriton-M200-H61:~$ mongo
MongoDB shell version v3.6.8
connecting to: mongodb://127.0.0.1:27017
Implicit session: session { "id" : UUID("c4b92aa6-3507-4cfa-ad45-4302f19cf947") }
MongoDB server version: 3.6.8
Server has startup warnings:
2023-04-27T09:42:18.374+0530 I STORAGE [initandlisten]
2023-04-27T09:42:18.374+0530 I STORAGE [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine
2023-04-27T09:42:18.374+0530 I STORAGE   [initandlisten] **
                                                  See http://dochub.mongodb.org/core/prodnotes-filesystem
2023-04-27T09:42:27.813+0530 I CONTROL [initandlisten]
2023-04-27T09:42:27.813+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2023-04-27T09:42:27.813+0530 I CONTROL   [initandlisten] **   Read and writeaccess to data and configuration is unrestricted.
2023-04-27T09:42:27.813+0530 I CONTROL [initandlisten]

· **Show database**
> show dbs;
142   0.000GB
Zipcode 0.000GB
admin
          0.000GB
config   0.000GB
dl   0.000GB
local   0.000GB
product
          0.000GB
rollno42 0.000GB
sample

0.000GB

shweta

        0.000GB

stock   0.000GB

test   0.000GB

- **· use databse (if not existed then it will create the database)**

```
> use 150;
switched to db 150
```

- **· insert into database**

```
>  db.student.insert({_id:3,sname:"vidya",dept:"computer",rollno:"149"}
);WriteResult({ "nInserted" : 1 })
```

- **· show all values(pretty-gives in proper format)**

```
> db.student.find().pretty();
{ "_id" : 1, "sname" : "mukta", "dept" : "computer", "rollno" : 142 }
{ "_id" : 2, "sname" : "aditi", "dept" : "computer", "rollno" : 153 }
{
        "_id" : 4,
        "sname" : "gauri",
        "dept" : "computer",
        "rollno" : 147,
        "skillset" : [
                "c",2
                "c++",
                "dbms",
                "ads"
        ]
}
{
        "_id" : ObjectId("644a0a6646e8c165b1600c4e"),
        "sname" : "gauri",
        "dept" : "computer",
        "rollno" : 147,
        "skillset" : [
                "c",
                "c++",
                "dbms",
                "ads"
        ]
```

}

- **show record having id 3**
```
> db.student.find({_id:3}).pretty();
{ "_id" : 3, "sname" : "vidya", "dept" : "computer", "rollno" : "149" }
```


- **show all attributes excluding department**
```
> db.student.find({_id:2},{dept:0}).pretty();
{ "_id" : 2, "sname" : "aditi", "rollno" : 153 }
```


- **remove record having id 4**
```
>  db.student.remove({_id:4});
WriteResult({ "nRemoved" : 1 })
```


- **show only id and name**
```
> db.student.find({_id:1},{dept:"computer"});
{ "_id" : 1, "dept" : "computer" }
```