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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 write access 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 database (if not existed then it will create the database)**

```
> use 142;
switched to db 142
```

- **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" : "ishwari", "dept" : "computer", "rollno" : 142 }
{ "_id" : 2, "sname" : "aditi", "dept" : "computer", "rollno" : 153 }
{
  "_id" : 4,
  "sname" : "gaury",
  "dept" : "computer",
  "rollno" : 147,
  "skillset" : [
    "c",2
    "c++",
    "dbms",
    "ads"
  ]
}
{
  "_id" : ObjectId("644a0a6646e8c165b1600c4e"),
  "sname" : "gaury",
  "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" }
```