DATE: Experiment, 4. ARM - TO Study CRUB operations on mongo DB PROBLEM Statement festorm the following operations on the mongo DB dollawase on mongo Shell. 1. List the cossently available delta bases. 2. CHAKE a NEW GATABASK tO STOR GATAILS OF students of IT dept change Roll No., Class name) and perform the following on the databases .-Insext one Student details a. Insect multiple Student deteril at once Display student of a particular class 0 Display Student of pashiculas on dell No. in a class d-Change the 2011 no of the student 0. Delete entires of pasticular Student. theorywhat as Documents and collectrons in Mongo PB? -3 a. A document is a data structure that stools data in a JSON like format, consisting of a key value prist where keys are storings and values can be of vasious types such as storings, numbers, assays. etc.

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| | Example- |
| | g"title": "the catches", |
| | rauthor": "J.D salinger", |
| | "39K195": ? |
| | "900d seads" : 3-8, |
| | "anazon" : 402 |
| | 3. |
| | 3 |
| | |
| 2. | Acollection is a stoup of documents that |
| | share a common theme of purpose similar to a |
| | table in a felakional data bases. |
| | |
| | Example |
| | and college of a section of the faithful that the |
| | 2 nane: "al", management |
| | 990: 181 |
| | Status: "O" |
| | 3. |
| | +Masile |
| | |
| 9-2 | Describe some features of mongo DB? |
| | |
| ⇒- a. | Document-oriented Mosgr database |
| ь. | uses dynamic schama for flexible date modeling |
| 0 | High availability and automatic shading |
| d. | Parvides easy integration with elanguages and |
| | Baneworks. |
| 0, | Offer enterprise grade security features |
| | and 2018-based access contact. |
| | |
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| | |
| 8.3. | When to use mong o DB ? |
| 7.1. | When dealing with leading volumes of unstarthiold of semi-starthiold data. |
| | when fast dead(waste operations are required passicularly for Jean time applications |
| | when these is need for seal-time analytics and visualization of data using mongaps |
| <u>С</u> | Chapte. When there is a need for strong security features and sole-based access control, particularly in enterpose applications. |
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| | |
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Output:

1) List of available databases

```
test> show dbs

test>
admin 40.00 KiB
bookstore 72.00 KiB
config 36.00 KiB
it_dept 72.00 KiB
local 80.00 KiB
```

2) Insert one student details

```
it_dept> db.student.insertOne({roll_no:"1",firstname:"Saniya",lastname:"Inamdar",class:"D15A"})
{witched to db it_dept
   acknowledged: true,
   insertedId: ObjectId("642784b204723962301c48af")
}
```

3) Insert at once multiple student details

```
it_dept> db.student.insertMany([{roll_no:"2",firstname:"Manav",lastname:"Jawrani",class:"D15A"},{roll_no:"3",firstname:
Sakshi",lastname:"Pawar",class:"D10A"}])
{
    acknowledged: true,
    insertedIds: {
        '0': ObjectId("6427884e04723962301c48b0"),
        '1': ObjectId("6427884e04723962301c48b1")
    }
}
```

4) Display student for a particular class

5) Display students of specific roll no in a class

6) Change the roll no of a student

```
it_dept> db.student.updateOne({class:"D15A",roll_no:"1"},{$set:{roll_no:"18"}})
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
}
it_dept> db.student.find({class:"D15A",roll_no:"18"})
[
    {
        id: ObjectId("642784b204723962301c48af"),
        roll_no: '18',
        firstname: 'Saniya',
        lastname: 'Inamdar',
        class: 'D15A'
    }
]
it dept>
```

7) Delete entries of particular student

```
it_dept> db.student.deleteOne({_id: ObjectId("6427884e04723962301c48b1")})
{    acknowledged: true, deletedCount: 1 }
it_dept> db.student.find()
[
    {
        _id: ObjectId("642784b204723962301c48af"),
        roll_no: '18',
        firstname: 'Saniya',
        lastname: 'Inamdar',
        class: 'D15A'
    },
    {
        _id: ObjectId("6427884e04723962301c48b0"),
        roll_no: '2',
        firstname: 'Manav',
        lastname: 'Jawrani',
        class: 'D15A'
    }
]
it_dept> _
```