BDA WEEK-01

CREATE DATBASE IN MONGODB:

```
bmsce@bmsce-Precision-T1700:~$ mongo sh
      MongoDB shell version v3.6.8
      connecting to: mongodb://127.0.0.1:27017/sh
      Implicit session: session { "id" : UUID("1875dd28-6f10-4e6f-ae5c-
4c2b351e2abe") }
      MongoDB server version: 3.6.8
      Server has startup warnings:
      2023-04-01T15:22:28.307+0530 I STORAGE  [initandlisten]
      2023-04-01T15:22:28.307+0530 I STORAGE  [initandlisten] ** WARNING:
Using the XFS filesystem is strongly recommended with the WiredTiger
storage engine
      2023-04-01T15:22:28.307+0530 I STORAGE  [initandlisten] **
See http://dochub.mongodb.org/core/prodnotes-filesystem
      2023-04-01T15:22:35.278+0530 I CONTROL  [initandlisten]
      2023-04-01T15:22:35.278+0530 I CONTROL  [initandlisten] ** WARNING:
Access control is not enabled for the database.
      2023-04-01T15:22:35.278+0530 I CONTROL  [initandlisten] **
Read and write access to data and configuration is unrestricted.
      2023-04-01T15:22:35.278+0530 I CONTROL  [initandlisten]
> use yathri_db
      switched to db yathri_db
> db
      yathri_db
> show dbs
      Neha          0.000GB
      Niharika_db   0.000GB
      abcd          0.000GB
      admin         0.000GB
      config        0.000GB
      local         0.000GB
      myDB          0.000GB
      sec           0.000GB
      student       0.000GB
      test          0.000GB


CRUD OPERATION:

> db.createCollection("Student")
      { "ok" : 1 }
> db.Student.drop()
      true
> show collections
> db.createCollection("Student")
      { "ok" : 1 }
> show collections
      Student
>
db.Student.insert({_id:1,Student_name:"AryaDavid",Grade:"VII",Hobbies:"In
ternetSurfing"})
      WriteResult({ "nInserted" : 1 })
> db.Student.find()
```

```
        { "_id" : 1, "Student_name" : "AryaDavid", "Grade" : "VII",
"Hobbies" : "InternetSurfing" }
>
db.Student.update({_id:1,Student_name:"AryaDavid",Grade:"VII"},{$set:{Hob
bies:"Chess"}},{upsert:true})
        WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.Student.find()
        { "_id" : 1, "Student_name" : "AryaDavid", "Grade" : "VII",
"Hobbies" : "Chess" }
> db.Student.find({Student_name: "AryaDavid"})
        { "_id" : 1, "Student_name" : "AryaDavid", "Grade" : "VII",
"Hobbies" : "Chess" }
> db.Student.find({},{_id:0,Student_name:1,Grade:1})
        { "Student_name" : "AryaDavid", "Grade" : "VII" }
> db.Student.find({Grade:{$eq:"VII"}}).pretty()
        {
                "_id" : 1,
                "Student_name" : "AryaDavid",
                "Grade" : "VII",
                "Hobbies" : "Chess"
        }
> db.Student.find({Hobbies:{$in:["Chess","Skating"]}}).pretty()
        {
                "_id" : 1,
                "Student_name" : "AryaDavid",
                "Grade" : "VII",
                "Hobbies" : "Chess"
        }
> db.Student.find({Student_name:/^M/}).pretty()
> db.Student.find({Student_name:/^A/}).pretty()
        {
                "_id" : 1,
                "Student_name" : "AryaDavid",
                "Grade" : "VII",
                "Hobbies" : "Chess"
        }
> db.Student.find({Student_name:/e/}).pretty()
> db.Student.find({Student_name:/i/}).pretty()
        {
                "_id" : 1,
                "Student_name" : "AryaDavid",
                "Grade" : "VII",
                "Hobbies" : "Chess"
        }
> db.Student.find().sort({Student_name: -1}).pretty()
        {
                "_id" : 1,
                "Student_name" : "AryaDavid",
                "Grade" : "VII",
                "Hobbies" : "Chess"
        }
        {
                "_id" : 2,
                "Student_name" : "Anu",
                "Grade" : "VI",
                "Hobbies" : "InternetSurfing"
        }
```