NAME: ASHWINI
USN: 1BM20CS402

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Various Server DytiPlex-3060:-$ mongo 
VangoDB shell version v4.0.28 
Connecting to: mongodb:/|172.0.0.1:27017/gssapiServiceName=mongodb 
Implicit session: session { "id" : UUID("c2e3109b-0341-483b-ba3a-f9fb3b1aed87") } 
WangoDB server version: 4.0.28 
Server has startup warnings: 
2022-04-11114:03:08.254+0530 I STORAGE [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine 
2022-04-11114:03:08.254+0530 I STORAGE [initandlisten] ** See http://dochub.mongodb.org/core/prodnotes-filesystem 
2022-04-11114:03:10.024+0530 I CONTROL [initandlisten] ** See http://dochub.mongodb.org/core/prodnotes-filesystem 
2022-04-11114:03:10.024+0530 I CONTROL [initandlisten] ** Read and write access to data and configuration is unrestricted. 
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2022-04-11114:03:10.024+0530 I CONTROL [initandlisten] ** Read and write access to data and configuration is unrestricted. 
2022-04-11114:03:
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```
> show dbs;
admin    0.000GB
config    0.000GB
local    0.000GB
myDB    0.000GB
> db.createCollection("Student");
{ "ok" : 1 }
> db.Student.drop();
true

    db.getCollection(Names()
[]
> db.createCollection("Student");
{ "ok" : 1 }
> db.Student.insert({_id:1, StudName:"Jeevan", Grade:"VI", Hobbies:"InternetSurfing"});
WriteResult({ "inInserted" : 1 })
> db.Student.insert({_id:2, StudName:"Vamsi", Grade:"VI", Hobbies:["Watching Movies", "Reading Novels", "Drugs"]})
WriteResult({ "inInserted" : 1 })
> db.Student.find({});
{ "id" : 1, "StudName" : "Jeevan", "Grade" : "VI", "Hobbies" : "InternetSurfing" }
{ "_id" : 2, "StudName" : "Vamsi", "Grade" : "VI", "Hobbies" : "InternetSurfing" }
{ "_id" : 2, "StudName" : "Vamsi", "Grade" : "VI", "Hobbies" : "InternetSurfing" }
{ "_id" : 2, "StudName" : "Vamsi", "Grade" : "VI", "Hobbies" : ["Watching Movies", "Reading Novels", "Drugs" ] }
```

```
> db.food.insert({_id:1,fruits:['avacado','dragon fruit']})
WriteResult({ "nInserted" : 1 })
> db.food.insert({_id:2,fruits:['strawberry','dragon fruit']})
WriteResult({ "nInserted" : 1 })
> db.food.find({'fruits.1':'avacado'}).pretty()
> db.food.find().pretty()
  "_id" : 1, "fruits" : [ "avacado", "dragon fruit" ] }
"_id" : 2, "fruits" : [ "strawberry", "dragon fruit" ] }
> db.food.find({'fruits.1':"avacado"}).pretty()
> db.food.find({'fruits.1':"avacado"})
> db.food.find({'fruits.0':"avacado"})
 "_id" : 1, "fruits" : [ "avacado", "dragon fruit" ] }
> db.food.find({'fruits.0':"avacado"}).pretty()
  "_id" : 1, "fruits" : [ "avacado", "dragon fruit" ] }
> db.food.find({'fruits.0':"avacado"}).pretty();
  "_id" : 1, "fruits" : [ "avacado", "dragon fruit" ] }
> db.food.find({'fruits.0':{$size:2}}).pretty();
> db.food.find({'fruits':{$size:2}})
  "_id" : 1, "fruits" : [ "avacado", "dragon fruit" ] }
"_id" : 2, "fruits" : [ "strawberry", "dragon fruit" ] }
> db.food.find({_id:2},{'fruits':{$slice:2}});
  "_id" : 2, "fruits" : [ "strawberry", "dragon fruit" ] }
> db.food.find({_id:2},{'fruits':{$slice:1}});
  "_id" : 2, "fruits" : [ "strawberry" ] }
> db.food.find({fruits:{$all:["avacado"]}})
{ "_id" : 1, "fruits" : [ "avacado", "dragon fruit" ] }
> db.food.find({fruits:{$all:["avacado","dragon fruit"]}})
  "_id" : 1, "fruits" : [ "avacado", "dragon fruit" ] }
  db.food.find({fruits:{$all:["dragon fruit"]}})
  "_id" : 1, "fruits" : [ "avacado", "dragon fruit" ] }
"_id" : 2, "fruits" : [ "strawberry", "dragon fruit" ] }
```

```
> show collections;
Student
customer
food
> db.customer.aggregate({$match:{AcctType:"FD"}},{$group:{_id:"$custID",TotalAccBal:{$sum:"$AcctBal"}}})
{ "_id" : 2, "TotalAccBal" : 20000000 }
{ "_id" : 1, "TotalAccBal" : 10000000 }
> db.customer.find()
{ "_id" : 0bjectId("6253f945d7ce1043c6d5c8cc"), "custID" : 1, "AcctBal" : 10000000, "AcctType" : "FD" }
{ "_id" : 0bjectId("6253f963d7ce1043c6d5c8cd"), "custID" : 2, "AcctBal" : 20000000, "AcctType" : "FD" }
{ "_id" : 0bjectId("6253f973d7ce1043c6d5c8cd"), "custID" : 3, "AcctBal" : 20000000, "AcctType" : "FD" }
{ "_id" : 0bjectId("6253f973d7ce1043c6d5c8ce"), "custID" : 3, "AcctBal" : 30000000, "AcctType" : "RD" }
> db.customer.aggregate({$match:{AcctType:"FD"}},{$group:{_id:"$custID",TotalAccBal:{$sum:"$AcctBal"}}},{$match:{TotAccBal:{$gt:10000000}}});
} < db.customer.aggregate({$match:{AcctType:"FD"}},{$group:{_id:"$custID",TotalAccBal:{$sum:"$AcctBal"}}},{$match:{TotalAccBal:{$gt:10000000}}});
{ "_id" : 2, "TotalAccBal" : 20000000 }
> quit()
```