QUERIES

```
use myDB;
show dbs;
db.user.insert({name: "Ada Lovelace", age: 20});
db;
use myDB1;
db.dropDatabase();
db.version()
db.stats()
db.help()
db.createCollection("person");
show collections;
db.createCollection("food");
db.food.drop();
show collections;
insert()
   db.Students.insert({ id:1,StudName:"Michell
   Jacintha", Grade: "VII", Hobbies: "Internet Surfing" });
   db.Students.find();
   db.Students.find().pretty();
   db.Students.insert({ id:2,StudName:"Mabel
   Mathews", Grade: "VII", Hobbies: "Baseball"});
   db.Students.insertMany([{ id:1,StudName:"Michell
   Jacintha", Grade: "VII", Hobbies: "Internet Surfing"}, { _id:2, StudName: "Mabel
   Mathews", Grade: "VII", Hobbies: "Baseball" } ]);
Update ()
   db.Students.update({ id:3,StudName:"Aryan
   David", Grade: "VII" }, { $set: {Hobbies: "Skating" } }, { upsert: true } );
   db.Students.find({ id:3});
   db.Students.update({ id:4,StudName:"Hersch
   Gibbs",Grade:"VII"}, {$set:{Hobbies:"Graffiti"}}, {upsert:false});
   db.Students.find().pretty();
   db.Students.update({ id:4,StudName:"Hersch
   Gibbs",Grade:"VII"}, {$set:{Hobbies:"Graffiti"}}, {upsert:true});
   db.Students.find();
   db.Students.find({ id:4}).pretty();
   db.Students.update({ id:4}, {$set:{Location:"Newark"}});
   db.Students.find({ id:4}).pretty();
   db.Students.update({ id:3}, {$set:{Hobbies:"Chess"}});
   db.Students.find({ id:3}).pretty();
   db.Students.update({}, {$set:{Hobbies: "Skating"}}, {multi:true})
save ()
   db.Students.find().pretty();
   db.Students.save({StudName:"Vamsi Bapat", Grade:"VI"});
   db.Students.find().pretty();
```

```
remove ()
  db.Students.find({ id:4}).pretty();
  db.Students.update({ id:4}, {$unset:{Location:"Newark"}});
  db.Students.remove({StudName:"Vamsi Bapat"});
  db.Students.find({ id:4}).pretty();
find()
  db.Students.save({StudName:"Vamsi Bapat", Grade:"VI"});
  db.Students.find().pretty();
  db.Students.find({StudName:"Aryan David"});
  db.Students.find({StudName:"Aryan David"}).pretty();
  db.Students.find({},{StudName:1, id:0});
  db.Students.find({},{StudName:1,Grade:1, id:0});
  db.Students.find({ id:1}, {StudName:1, Grade:1});
  db.Students.find({ id:1}, {StudName:1, Grade:1, id:0});
  db.Students.find({Grade:{$eq:"VII"}}).pretty();
  db.Students.find({Grade:{$ne:"VII"}}).pretty();
  db.Students.find({Hobbies:{$in:["Chess","Skating"]}}).pretty();
  db.Students.find({Hobbies:{$nin:["Chess","Skating"]}}).pretty();
  db.Students.find({Hobbies: "Graffiti", StudName: "Hersch
Gibbs"}).pretty();
  db.Students.find({StudName:/^M/}).pretty();
  db.Students.find({StudName:/s$/}).pretty();
  db.Students.find({StudName:/e/}).pretty();
  db.Students.find({StudName:{$regex:"e"}}).pretty();
  db.Students.find({StudName:{$regex:"a$"}}).pretty();
  db.Students.find({StudName:{$regex:"^M"}}).pretty();
null values
  db.Students.find({$or:[{ id:3},{ id:4}]});
  db.Students.update({ id:3}, {$set:{Location:null}});
  db.Students.update({ id:4}, {$set:{Location:null}});
  db.Students.find({Location:{$eq:null}});
  db.Students.find();
  db.Students.update({ id:3}, {$unset:{Location:null}});
  db.Students.update({_id:4}, {$unset:{Location:null}});
  db.Students.find();
  db.Students.find().pretty();
Count, Limit, Sort and Skip
  db.Students.count();
  db.Students.count({Grade:"VII"});
  db.Students.find({Grade:"VII"}).limit(3).pretty();
  db.Students.find().sort({StudName:1}).pretty();
  db.Students.find().sort({StudName:-1}).pretty();
```

```
db.Students.find().sort({Grade:1, Hobbies:-1}).pretty();
   db.Students.find().sort({Grade:1, Hobbies:1}).pretty();
   db.Students.find().skip(2).pretty();
   db.Students.find().skip(1).pretty().sort({StudName:1});
   db.Students.find().pretty().skip(db.Students.count()-2);
   db.Students.find().pretty().skip(2).limit(3);
Arrays:
   db.food.insert({ id:1,fruits:["banana","apple","cherry"]});
   db.food.insert({ id:2,fruits:["orange","butterfruit","mango"]});
   db.food.insert({    id:3,fruits:["pineapple","strawberry","grapes"]});
   db.food.insert({ id:4, fruits:["banana", "strawberry", "grapes"]});
   db.food.insert({_id:5,fruits:["orange","grapes"]});
   db.food.find();
   db.food.find({});
   db.food.find({fruits:["banana", "apple", "cherry"]}).pretty();
   db.food.find({fruits:"banana"});
   db.food.find({"fruits.1":"grapes"});
   db.food.find({"fruits.2":"grapes"});
   db.food.find({fruits:{$size:2}});
   db.food.find({fruits:{$size:3}});
   db.food.find({ id:1}, {fruits:{$slice:2}});
   db.food.find({fruits:{$all:["orange", "grapes"]}}).pretty();
   db.food.find({"fruits.0":"orange"}).pretty();
   db.food.find({ id:1}, {fruits:{$slice:[0,2]}});
   db.food.find({ id:1}, {fruits:{$slice:[1,2]}});
   db.food.find({_id:1}, {fruits:{$slice:[2,3]}});
Update on the Array:
   db.food.find({});
   db.food.update({ id:4}, {$set:{"fruits.1":"apple"}});
   db.food.find({ id:4});
   db.food.update({ id:1,"fruits":"apple"}, {$set:{"fruits.1":"An apple"}});
   db.food.find({ id:1});
   db.food.update({ id:2}, {$push:{price:{orange:60,butterfruit:200,mango:120}}});
   db.food.find().pretty();
   db.food.update({ id:4}, {$addToSet:{fruits:"orange"}});
   db.food.find().pretty();
   db.food.update({ id:4}, {$pop:{fruits:1}});
   db.food.find().pretty();
   db.food.update({ id:4}, {$pop:{fruits:-1}});
   db.food.find().pretty();
   db.food.find({ id:3});
   db.food.update({_id:3},{$pullAll:{fruits:["pineapple","grapes"]}});
   db.food.find({ id:3});
   db.food.update({fruits:"banana"}, {$pull:{fruits:"banana"}});
   db.food.find().pretty();
   db.food.find({ id:4}).pretty();
   db.food.update({ id:4}, {$unset:{"fruits.1":null}});
   db.food.update({ id:4}, {$pull:{"fruits":null}});
   db.food.find({_id:4}).pretty();
```

Aggregate function

```
db.Customers.insert([{CustID:"C123",AccBal:500,AccType:"S"},{CustID:"C123",AccBal:900,AccType:"S"},{CustID:"C123",AccBal:1500,AccType:"C"}]);
db.Customers.find().pretty();
db.Customers.aggregate({$group:{_id: "$CustID",TotAccBal:{$sum: "$AccBal"}}});
db.Customers.aggregate({$match:{AccType:"S"}},{$group:{_id: "$CustID",TotAccBal:{$sum: "$CustID",TotAccBal:{$sum: "$AccBal"}}};
db.Customers.aggregate({$match:{AccType:"S"}},{$group:{_id: "$CustID",TotAccBal:{$sum: "$AccBal"}}},{$match:{TotAccBal:{$gt:1200}}});
db.Customers.aggregate({$group:{_id:"$CustID",TotAccBal:{$avg:"$AccBal"}}});
db.Customers.aggregate({$group:{_id:"$CustID",TotAccBal:{$max:"$AccBal"}}});
db.Customers.aggregate({$group:{_id:"$CustID",TotAccBal:{$max:"$AccBal"}}});
db.Customers.aggregate({$group:{_id:"$CustID",TotAccBal:{$max:"$AccBal"}}}});
```