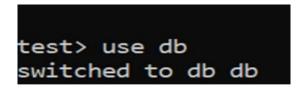
MONGODB

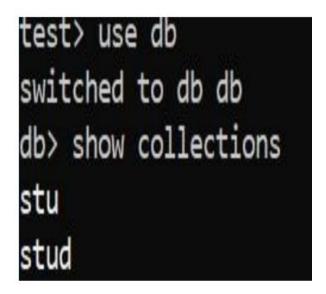
ADD, UPDATE AND DELETE DATA

First we need to give use db(database)

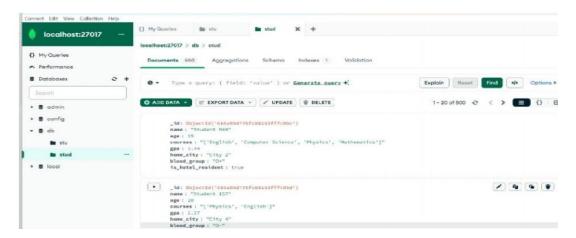


Now ,as we can observe the database is switched to db

To find whether the data present in the given collection, here collection name is about the information of students.



To find the total number of collection of the database used in command. "db.stud.find().count()".



The below example the collection name is stud or stu.

To find the collection of the database use the command. "db.stud.find()

WHERE, AND, OR & CRUD:

WHERE:

Given a collection you want to filter a subset based on a condition. That is the place WHERE is used. To find all students with GPA greater than 3.5, we use command-

"db.stud.find({gpa:{\$gt:3.5}});"

```
db> db.stud.find({gpa:{$gt:3.5}});
    _id: ObjectId('665a89d776fc88153fffc0a0'),
   name: 'Student 930',
    courses: "['English', 'Computer Science', 'Mathematics', 'History']",
   home_city: 'City 3',
   blood_group: 'A-',
   is_hotel_resident: true
    id: ObjectId('665a89d776fc88153fffc0a2'),
   name: 'Student 268',
   courses: "['Mathematics', 'History', 'Physics']",
    gpa: 3.98,
db> db.stud.find({gpa:{$gt:3.5}});
   is_hotel_resident: false
    _id: ObjectId('665a89d776fc88153fffc0a0'),
   name: 'Student 930',9d776fc88153fffc0ac'),
    age: 25, tudent 368'
```

Here \$gt represent the greater than, and it gives the information about students that are belongs to greater than 3.5 gpa.

AND:

Given a collection you want to filter a subset based on multiple conditions. To find all students who live in "City 5" AND have a based group of "A+" Here we use the command:

Db.stud.find((\$and: [{home city: "City 5"}, {blood group: "A+"}] });

```
db> db.stud.find({
 .. $and:[
 .. {home_city:"City 5"},
 .. {blood_group:"A+"}
 .. });
    id: ObjectId('665a89d776fc88153fffc@d3'),
   name: 'Student 142',
   age: 24,
   courses: "['History', 'English', 'Physics', 'Computer Science']",
   home_city: 'City 5',
   blood group: 'A+',
   is hotel resident: false
    id: ObjectId('665a89d776fc88153fffc1f3'),
   name: 'Student 947',
   age: 20,
   courses: "['Physics', 'History', 'English', 'Computer Science']",
db> =
   home_city: 'City 5',
   blood_group: 'A+',
   is hotel resident: true
   _id: ObjectId('665a89d776fc88153fffc265'),
   name: 'Student 567',
   age: 22,
   courses: "['Computer Science', 'History', 'English', 'Mathematics']",
   gpa: 2.01,
   home_city: 'City 5',
   blood_group: "A+",
   is_hotel_resident: true
```

Above shown example is filtered based on some particular conditions like:

'home city: City5' and 'blood group: A+'

OR:

In the given collection that is student information , we want to filter a subset based on multiple conditions .

```
db.stud.find({ $or: [ { blood_group: "A+" }, { gpa: { $gt: 3.5 } }] })
_id: ObjectId('665a89d776fc88153fffc8a8'),
name: Student 938,
age: 25,
courses: "['English', 'Computer Science', 'Mathematics', 'History']",
gpa: 3.63,
home_city: 'City 3',
blood_group: 'A-',
is hotel resident: true
_id: ObjectId('665a89d776fc88153fffc8a2'),
name: 'Student 268',
age: 21,
courses: "['Mathematics', 'History', 'Physics']",
gpa: 3.98,
blood_group: 'A+',
is hotel resident: false
_id: ObjectId('665a89d776fc88153fffc8a7'),
name: 'Student 177',
age: 23,
courses: "['Mathematics', 'Computer Science', 'Physics']",
gpa: 2.52,
home_city: 'City 10',
blood group: 'A+',
is_hotel_resident: true
id: ObjectId('665a89d776fc88153fffc8ac'),
name: 'Student 368',
age: 20,
courses: "['English', 'History', 'Physics', 'Computer Science']",
```

In the above example, the student database is filtered based on either 'blood_group: A+' or 'gpa great.

Selectors:

Comparison gt and lt AND operator OR operator.

Comparison gt lt:

To find all students with age **greater than 20**.

```
db> db.stud.find({age:{$gt:20}});
   _id: ObjectId('665a89d776fc88153fffc09f'),
   name: 'Student 346',
   age: 25,
   courses: "['Mathematics', 'History', 'English']",
   home_city: 'City 8',
   blood_group: '0-'
   is_hotel_resident: true
   _id: ObjectId('665a89d776fc88153fffc0a0'),
   name: 'Student 930',
   age: 25,
   courses: "['English', 'Computer Science', 'Mathematics', 'History']",
   home_city: 'City 3',
   blood_group: 'A-
   is_hotel_resident: true
   _id: ObjectId('665a89d776fc88153fffc0a1'),
   name: 'Student 305',
   age: 24,
   courses: "['History', 'Physics', 'Computer Science', 'Mathematics']",
   home_city: 'City 6',
   blood_group: '0+'
   is_hotel_resident: true
```

AND operator:

To find students from "city 2" with blood group "B+".

OR Operator:

MongoDB provides different types of logical query operators and **\$or** operator is one of them.

Syntax: