

Mongodb

1.Create database stud and collection named details

use stud

```
db.createCollection('details');
```

2. Insert 10 data to that collection

```
db.details.insert({roll:1,sname:'ram',dpmt:'cse',sem:2,cgpa:7});
```

```
db.details.insert({roll:2,sname:'sam',dpmt:'it',sem:3,cgpa:5});
```

```
db.details.insert({roll:3,sname:'dane',dpmt:'ai',sem:6,cgpa:6});
```

```
db.details.insert({roll:4,sname:'mary',dpmt:'ece',sem:5,cgpa:6});
```

```
db.details.insert({roll:5,sname:'rani',dpmt:'eee',sem:5,cgpa:8});
```

```
db.details.insert({roll:6,sname:'rony',dpmt:'cse',sem:4,cgpa:8});
```

```
db.details.insert({roll:7,sname:'ajay',dpmt:'cse',sem:4,cgpa:7});
```

```
db.details.insert({roll:8,sname:'jony',dpmt:'cse',sem:3,cgpa:6});
```

```
db.details.insert({roll:9,sname:'sony',dpmt:'eee',sem:3,cgpa:6});
```

```
db.details.insert({roll:10,sname:'sradha',dpmt:'eee',sem:7,cgpa:9});
```

3. show all the data in that collection

```
db.details.find()
```

4.Display all the students in cse

```
db.details.find({dpmt:'cse'});
```

5. Display students in ascending order of name

```
db.details.find().sort({sname:1});
```

6.List first five students

```
stud> db.details.find().limit(5)
```

7.Display students 5,6,7

```
stud> db.details.find().skip(4).limit(3)
```

8. Display students details of 5,6,7 in descending order of percentage

```
db.details.find().sort({cgpa:-1}).skip(4).limit(3)
```

9.display all students in ascending order of cgpa

```
db.details.find().sort({cgpa:-1});
```

10. Display the number of students in eee

```
db.details.find({dpmt:'eee'}).count();
```

11.Display all the degrees without _id

```
db.details.find({}, {_id:0})
```

12.display all students in cse and sem 4

```
db.details.find({$and:[{dpmt:'cse'},{sem:4}]})
```

13.display all students with cgpa range 4 and 7

```
db.details.find({cgpa:{$gt:4,$lt:7}});
```

14.Display all students in dpmt cse

```
db.details.find({dpmt:'cse'});
```

15.Display cgpa of jony

```
db.details.find({sname:'jony'},{cgpa:1})
```

16.Display department of ajay

```
db.details.find({sname:'ajay'},{dpmt:1})
```

17. Display all students whose cgpa greater than 7

```
db.details.find({cgpa:{$gt:7}});
```

18.Diplay students whose department is in eee or ai

```
db.details.find({dpmt:{$in:['eee','ai']}});
```

19.Find all students whose name starts with j

```
db.details.find({sname:/^j/});
```

20.Find names of all students whose dpmt in eee and cgpa 9

```
db.details.find({dpmt:'eee',cgpa:9},{sname:1});
```

21. Display the details of the student who secured the highest cgpa in the course cse.

```
db.details.find({dpmt:"cse"}).sort({cgpa:-1}).limit(1)
```

22.Display students in cse in descending order of cgpa

```
db.details.find({dpmt:"cse"}).sort({cgpa:-1})
```

23.Display students in cse ascending order of cgpa

```
db.details.find({dpmt:"cse"}).sort({cgpa:1})
```

24.Display student in cse who have lowest cgpa

```
db.details.find({dpmt:"cse"}).sort({cgpa:1})
```

25. Display the names of the top three students in the cse dpmt.

```
db.details.find({dpmt:'eee'},{sname:1}).sort({cgpa:-1}).limit(3)
```

26.Display the names and sem of student who have cgpa greater than 6 and in cse dpmt

```
db.details.find({dpmt:'cse',cgpa:{$gt:6}},{sname:1,sem:1})
```

27. Display name and sem of one student who have cgpa greater than 6 and in cse dpmt

```
db.details.find({dpmt:'cse',cgpa:{$gt:6}},{sname:1,sem:1}).limit(1)
```

28.Display details of students who have cgpa greater than 6 and less than 9

```
db.details.find({cgpa:{$gt:6,$lt:9}})
```

29 Display all students in eee dpmt

```
db.details.find({dpmt:'eee'})
```

30.Display students who not belong to either cse,eee,ece

```
db.details.find({dpmt:{$nin:['cse','ece','eee']}})
```

31.Display all sem 3 students who belong to either cse,eee, ece

```
db.details.find({$and:[{sem:3},{dpmt:{$in:['cse','ece','eee']}}]})
```

32.Update sem of ram to 4

```
db.details.updateOne({sname:'ram'},{$set:{sem:4}})
```

33.update multiple records

Update all students in dpmt eee as sem2

```
db.details.updateMany({dpmt:'eee'},{$set:{sem:2}})
```

34. delete student of roll no 3

```
db.details.deleteOne({roll:3})
```

35. delete students who have cgpa greater than 8

```
db.details.deleteMany({cgpa:{$gt:8}})
```

Problem

17.