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.