**Indexing and aggregation**

sudo systemctl start mongod

Mongo

db.createCollection("ass3");

db.ass3.insert({"roll":1,"name":"Archit","Subject":"OOP","Marks":78});

db.ass3.insert({"roll":2,"name":"Pavan","Subject":"DSA","Marks":75});

db.ass3.insert({"roll":3,"name":"Naman","Subject":"DBMS","Marks":69});

db.ass3.insert({"roll":4,"name":"Aman","Subject":"OOP","Marks":80});

db.ass3.insert({"roll":5,"name":"Pravin","Subject":"DSA","Marks":88});

db.ass3.insert({"roll":6,"name":"Ravi","Subject":"DBMS","Marks":90});

db.ass3.find().pretty();

db.ass3.createIndex({name:1});

db.ass3.getIndexes()

db.ass3.find().sort({name:1})

db.ass3.find().sort({name:-1})

db.ass3.find({name:"Pravin"})

db.ass3.aggregate([{$group:{\_id:"$Subject",Marks:{$max:"$Marks"}}}])

db.ass3.aggregate([{$group:{\_id:"$Subject",Marks:{$min:"$Marks"}}}])

db.ass3.aggregate([{$group:{\_id:"$Subject",Marks:{$avg:"$Marks"}}}])

db.ass3.aggregate([{$group:{\_id:"$Subject",Marks:{$first:"$Marks"}}}])

db.ass3.aggregate([{$group:{\_id:"$Subject",Marks:{$last:"$Marks"}}}])

db.ass3.aggregate([{$group:{\_id:"$Subject",Marks:{$sum:"$Marks"}}}])