**Practical 12**

use ass12

db.ass12.insert({roll:1,name:"ABC",subject:"OOP",marks:78})

db.ass12.insert({roll:2,name:"DEF",subject:"DSA",marks:75})

db.ass12.insert({roll:3,name:"XYZ",subject:"TOC",marks:69})

db.ass12.insert({roll:4,name:"PQR",subject:"C++",marks:70})

db.ass12.insert({roll:5,name:"LMN",subject:"CN",marks:80})

db.ass12.insert({roll:6,name:"UVW",subject:"CN",marks:90})

db.ass12.find();

db.ass12.createIndex({name:1})

db.ass12.getIndexes()

db.ass12.find().sort({name:1})

db.ass12.find().sort({name:-1})

db.ass12.find({name:"LMN"})

db.ass12.ensureIndex({roll:1},{unique:true})

db.ass12.aggregate([{$group:{\_id:"$sbuject",marks:{$min:"$marks"}}}])

db.ass12.aggregate([{$group:{\_id:"$sbuject",marks:{$max:"$marks"}}}])

db.ass12.aggregate([{$group:{\_id:"$sbuject",marks:{$avg:"$marks"}}}])

db.ass12.aggregate([{$group:{\_id:"$sbuject",marks:{$first:"$marks"}}}])

db.ass12.aggregate([{$group:{\_id:"$sbuject",marks:{$last:"$marks"}}}])

db.ass12.aggregate([{$group:{\_id:"$sbuject",marks:{$sum:"$marks"}}}])

db.ass12.aggregate([{$group:{\_id:"$sbuject",count:{$sum:1}}}])

db.ass12.aggregate([{$match:{subject:"CN"}},{$group:{\_id:"$sbuject",count:{$sum:1}}}])

**Installation**

sudo apt install -y software-properties-common gnupg apt-transport-https ca-certificates

sudo apt install -y mongodb

wget -qO - https://www.mongodb.org/static/pgp/server-5.0.asc | sudo apt-key add -

echo "deb [ arch=amd64,arm64 ] https://repo.mongodb.org/apt/ubuntu focal/mongodb-org/5.0 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-5.0.list

sudo apt update

sudo apt install -y mongodb-org

mongod --version

**START**

sudo systemctl status mongod

sudo systemctl start mongod

sudo systemctl status mongod

mongo --eval 'db.runCommand({ connectionStatus: 1 })'

sudo ss -pnltu | grep 27017

sudo systemctl enable mongod

mongosh