

04/03/2025

STAO

DATE:

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Lab 1

1. Create database in MongoDB

-> use myDB

-> db

-> show dbs

2. Create, read, update, delete operations

-> db.createCollection("Student");

-> db.Student.drop();

-> db.createCollection("Students");

-> db.Students.insert({id:1, StudName:"Michelle Jacintha",
grade:"VII", Hobbies:"Internet Surfing"});

-> db.Students.update({id:3, StudName:"Aryan David", grade:
{ \$set: {Hobbies:"Skating", \$unset:true}});

-> db.Students.find({StudName:"Aryan David"});

-> db.Students.find({, (StudName:1, grade:1, id:0)});

-> db.Students.find({grade:{ \$eq:'VII'}}).pretty();

-> db.Students.find({Hobbies:{ \$in:['chess', 'Skating']}}).
pretty();

-> db.Students.find({StudName:/^M/}).pretty();

-> db.Students.find({StudName:/e/}).pretty();

-> db.Students.count();

-> db.Students.find().sort({StudName:-1}).pretty();

5. Save method

db.Students.save({StudName:"Vamsi", grade:"VI"});

6. Add a new field to existing document

→ db.Students.update({_id: 43, \$set: {location: "New York"}})

7. Remove the field in an existing document.

→ db.Students.update({_id: 43, \$unset: {location: "New York"}}).

8. Finding document based on search criteria

→ db.Students.find({_id: 13, \$studname: 1, grade: 1, _id: 03});
 → db.Students.find({grade: \$ne: 'vii'}).pretty();
 → db.Students.find({studname: /s\$/}).pretty();

9. To set a particular field value to null

→ db.Students.update({_id: 33, \$set: {location: null}}).

10. count the number of documents in student collections.

→ db.Students.count();

→ db.Students.count({grade: "vii"}).

→ db.Students.find({grade: "vii"}).limit(3).pretty();

→ db.Students.find().sort({studname: 1}).pretty();

→ db.Students.find().sort({studname: -1}).pretty();

→ db.Students.find().skip(2).pretty();

Aggregate function:

-> db.customers.aggregate({\$group:{\$id: "\$custid", TotAccBal:{\$sum: "\$AccBal"}}});

-> db.customers.aggregate({\$match:{\$accttype: "S"}, {\$group:{\$id: "\$custid", TotAccBal:{\$sum: "\$AccBal"}}});

-> db.customers.aggregate({\$match:{\$accttype: "S"}, {\$group:{\$id: "\$custid", TotAccBal:{\$sum: "\$AccBal"}}, {\$match:{\$TotAccBal:{\$gt: 1200}}});