**Day 13: 01-11-2025:**

Projection or retrieve specific document fields from collection

db.CollectionName.find({condition},{projection});

retrieve name and \_id fields

db.Employees.find({},{name:1});

retrieve name, \_id,salary fields

db.Employees.find({},{name:1,salary:1});

retrieve name and salary

db.Employees.find({},{name:1,name:1,\_id:0});

**update query**

updateOne() : condition with \_id then use updateOne()

updateMany() : condition with apart from \_id use updateMany();

db.Employees.updateOne({\_id:1},{$set:{age:25}});

db.Employees.updateMany({city:"Bangalore"},{$set:{city:"Bengaluru"}});

**delete query**

db.Employees.deleteOne({\_id:6});

db.Employees.deleteMany({city:”Bengaluru”});

Student

SID(PK), SName, Age,SkillSet :

1, Raj,21, C/C++/Java

**Store array value in collection**

In mongo DB value can be array with primitive types.

db.Students.insertMany([

{\_id:1,sname:"Reeta",age:21,skillSet:["Java","Python"]},

{\_id:2,sname:"Veeta",age:22,skillSet:["HTML","CSS","JS","ReactJS"]},

{\_id:3,sname:"Keeta",age:23,skillSet:["AI"]}

]);

Want to add new value in array types.

$push

$pop

Adding new value of array type

db.Students.updateOne({\_id:1},{$push:{skillSet:"Spring boot"}});

remove from array elements

db.Students.updateOne({\_id:2},{$pop:{skillSet:1}});

db.Students.find({skillSet:"HTML"},{sname:1,\_id:0});

**Mongo DB relationship**

In mongo db we can achieve relationship using 2 ways

1. Embedded style : store all information in one collection
2. Linking style : store information more than one collection

Embedded style : value can be object type as well as array of object types.

In mongo db we can achieve relationship on document level rather than collection level.

db.EmployeeInfo.insertMany(

[

{\_id:100,name:"Ravi",age:21,salary:45000,address:{city:"Bangalore",state:"Kar"}},

{\_id:101,name:"Raju",age:24,salary:46000,address:[{city:"Bangalore",state:"Kar"},{city:"Mumbai",state:"Mh"}]},

{\_id:102,name:"Ram",age:25,salary:48000,address:[{city:"Bangalore",state:"Kar"},{city:"Mumbai",state:"Mh"}],

projects:[{pid:1111,tech:"Java"}]},

{\_id:103,name:"Rajesh",age:27,salary:52000,address:[{city:"Bangalore",state:"Kar"}],

projects:[{pid:1111,tech:"Java"},{pid:2222,tech:"Python"}]}

]

);

Appy condition with complex type values

db.EmployeeInfo.find({"address.city":"Mumbai"});

db.EmployeeInfo.find({"address.city":"Mumbai"},{name:1});