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**PRACTICAL NO 10**

**Problem Statement** :-Design and Develop MongoDB Queries using CRUD operations. (Use CRUD operations, SAVE method, logical operators)

**Student Name** :- **Roll\_No** :-

**BATCH** :- TEB-3 **Date** :-\_\_/\_\_/\_\_\_\_

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**1.CREATE DATABASE :-**

QUERY : > use Rohit

OUTPUT:switched to db Rohit

**2.CREATE AND INSERT COLLECTION :-**

QUERY : > db.stud.insert({name:"alpeshvasni",rollno:65,cast:"OPen",address:

"nasik"})

OUTPUT: WriteResult({ "nInserted" : 1 })

QUERY : > db.stud.insert({name:"salman",rollno:55,cast:"OPan","address":"nasik"})

OUTPUT: WriteResult({ "nInserted" : 1 })

QUERY : > db.stud.insert({name:"rahod",rollno:549,cast:"sc","address":"jalgaon"})

OUTPUT: WriteResult({ "nInserted" : 1 })

**3.QUERY OPERATION :-**

QUERY : >

db.stud.find({}).pretty()

Output:

{

"\_id" : ObjectId("59a5257e7e602f6087591051"),

"name" : "alpesh vasni",

"rollno" : 65,

"cast" : "OPen",

"address" : "nasik"

}

{

"\_id" : ObjectId("59a526697e602f6087591052"),

"name" : "salman",

"rollno" : 55,

"cast" : "OPan",

"address" : "nasik"

}

{

"\_id" : ObjectId("59a5268f7e602f6087591053"),

"name" : "rahod",

"rollno" : 549,

"cast" : "sc",

"address" : "jalgaon"

}

**4.QUERY OPERATION USING CONDITIONAL OPERATORS :-**

***4.1.Less than :***

QUERY : > db.stud.find({rollno:{$lt:67}}).pretty()

OUTPUT:

{

"\_id" : ObjectId("59a5257e7e602f6087591051"),

"name" : "alpesh vasni",

"rollno" : 65,

"cast" : "OPen",

}

{

"\_id" : ObjectId("59a526697e602f6087591052"),

"name" : "salman",

"rollno" : 55,

"cast" : "OPan",

"address" : "nasik"

}

***4.2.Greater than equal to :***

QUERY : > db.stud.find({rollno:{$gte:65}}).pretty()

OUTPUT:

{

"\_id" : ObjectId("59a5257e7e602f6087591051"),

"name" : "alpesh vasni",

"rollno" : 65,

"cast" : "OPen",

}

{

"\_id" : ObjectId("59a5268f7e602f6087591053"),

"name" : "rahod",

"rollno" : 549,

"cast" : "sc",

"address" : "jalgaon"

}

***4.3.Equal to :***

QUERY : > db.stud.find({cast:"OPan"}).pretty()

Output:

{

"\_id" : ObjectId("59a526697e602f6087591052"),

"name" : "salman",

"rollno" : 55,

"cast" : "OPan",

"address" : "nasik"

}

QUERY : > db.stud.find({"name":"rahod"}).pretty()

Output:

{

"\_id" : ObjectId("59a5268f7e602f6087591053"),

"name" : "rahod",

"rollno" : 549,

"cast" : "sc",

"address" : "jalgaon"

}

**5.Query with LOGICAL OPERATORS :-**

***5.1.AND operator :***

QUERY : > db.stud.find({$and:[{address:"nasik"},{rollno:65}]}).pretty()

{

"\_id" : ObjectId("59a5257e7e602f6087591051"),

"name" : "alpesh vasni",

"rollno" : 65,

"cast" : "OPen",

"address" : "nasik"

}

***5.2.OR oprator :***

QUERY : >

db.STUD.find({$or:[{address:"jalgaon"},{"rollno":55,}]}).

pretty()

OUTPUT:

{

"\_id" : ObjectId("59a526697e602f6087591052"),

"name" : "salman",

"rollno" : 55,

"cast" : "OPan",

"address" : "nasik"

}

{

"\_id" : ObjectId("59a5268f7e602f6087591053"),

"name" : "rahod",

"rollno" : 549,

"cast" : "sc",

"address" : "jalgaon"

}

**6.UPDATE DOCUMENT :-**

QUERY : > db.stud.update({name:"rathod"},{name:"rathod",rollno:49,cast:"obc",address:"jalaon"})

OUTPUT: WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

QUERY > db.stud.find({}).pretty()

Output:

{

"\_id" : ObjectId("59a5257e7e602f6087591051"),

"name" : "alpesh vasni",

"rollno" : 65,

"cast" : "OPen",

"address" : "nasik"

}

{

"\_id" : ObjectId("59a526697e602f6087591052"),

"name" : "salman",

"rollno" : 55,

"cast" : "OPan",

"address" : "nasik"

}

{

"\_id" : ObjectId("59a5268f7e602f6087591053"),

"name" : "rathod",

"rollno" : 49,

"cast" : "obc",

"address" : "jalaon"

}

**7.Save() METHOD :-**

QUERY : >

db.Stud.save({"\_id":ObjectId("59a5257e7e602f6087591051"),

"name" : "rathod","cast" : "obc","address" : "jalaon"})

OUTPUT: WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified"

: 1 })

QUERY : > db.STUD.find().pretty()

OUTPUT:

{

"\_id" : ObjectId("59a5257e7e602f6087591051"),

"name" : "alpesh vasni",

"rollno" : 65,

"cast" : "OPen",

"address" : "nasik"

}

{

"\_id" : ObjectId("59a526697e602f6087591052"),

"name" : "salman",

"rollno" : 55,

"cast" : "OPan",

"address" : "nasik"

}

{

"\_id" : ObjectId("59a5268f7e602f6087591053"),

"name" : "rathod",

"cast" : "obc",

"address" : "jalaon"

}

**8. DELETE THE DOCUMENT :-**

QUERY : > db.STUD.remove({"name" : "rathod"})

OUTPUT: WriteResult({ "nRemoved" : 1 })

QUERY : > db.STUD.find().pretty()

OUTPUT:

{

"\_id" : ObjectId("59a5257e7e602f6087591051"),

"name" : "alpesh vasni",

"rollno" : 65,

"cast" : "OPen",

"address" : "nasik"

}

{

"\_id" : ObjectId("59a526697e602f6087591052"),

"name" : "salman",

"rollno" : 55,

"cast" : "OPan",

"address" : "nasik"

}