Name: Sanskruti Patil

Roll No: 31448

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1) CREATE
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db.students.insertMany([
 {_id:1,name: "Sanskruti",age: 20, dept: "Computer",marks: 99},
 {_id:2,name: "Mokshada",age: 19, dept: "IT",marks: 98},
 { id:3,name: "Sayali",age: 18, dept: "ENTC",marks: 97}
 1)
db.students.insertMany([
 {_id:4,name: "Ram",age: 20, dept: "IT",marks: 80},
 {_id:5,name: "Shivraj",age: 19, dept: "AIDS",marks: 59},
 {_id:6,name: "Henna",age: 18, dept: "ENTC",marks: 97}
 ])
Output:
{ "acknowledged" : true, "insertedIds" : [ 1, 2, 3 ] }
2) READ/ LOGICAL OPERATION (AND,OR,NOT)
db.students.find()
Output:
{ " id" : 1, "name" : "Sanskruti", "age" : 20, "dept" : "Computer", "marks" : 99 }
{ " id" : 2, "name" : "Mokshada", "age" : 19, "dept" : "IT", "marks" : 98 }
{ " id" : 3, "name" : "Sayali", "age" : 18, "dept" : "ENTC", "marks" : 97 }
db.students.find({age:20})
Output:
{ " id" : 1, "name" : "Sanskruti", "age" : 20, "dept" : "Computer", "marks" : 99 }
// age >20 and marks>70
db.students.find({$and: [{age: {$gt:20}}, {marks:{$gt:70}}]})
Output: (no records)
// $or : sIT or marks>80
db.students.find({$or: [{dept: "IT"}, {marks:{$gte:80}}]})
Output:
```

```
{ "_id" : 1, "name" : "Sanskruti", "age" : 20, "dept" : "Computer", "marks" : 99 } { "_id" : 2, "name" : "Mokshada", "age" : 19, "dept" : "IT",
"marks" : 98 }
{ "_id" : 3, "name" : "Sayali", "age" : 18, "dept" : "ENTC",
"marks" : 97 }
{ "_id" : 4, "name" : "Ram", "age" : 20, "dept" : "IT", "marks" : 80 }
{ "_id" : 6, "name" : "Henna", "age" : 18, "dept" : "ENTC",
"marks" : 97 }
// nor IT or marks<60
db.students.find({$nor: [{dept: "IT"}, {marks: {$lte:60}}]})
{ "_id" : 1, "name" : "Sanskruti", "age" : 20, "dept" : "Computer", "marks" : 99 } { "_id" : 3, "name" : "Sayali", "age" : 18, "dept" : "ENTC",
"marks" : 97 }
"marks" : 97 }
3) UPDATE
1] Update One
      before update:
      { "_id : 6, "name" : "Henna", "age" : 18, "dept" : "ENTC",
"marks" : 97 }
      update:
      db.students.updateOne({_id:6}, {$set:{marks:90}})
      Output
      {"acknowledged" : true, "matchedCount" : 1, "modifiedCount" :
1 }
      after update:
      { "_id" : 6, "name" : "Henna", "age" : 18, "dept" : "ENTC",
"marks" : 90 }
2] Update Many
      before update:
      db.students.find({dept:"ENTC"})
      { "_id" : 3, "name" : "Sayali", "age" : 18, "dept" : "ENTC", "marks" : 97 } { "_id" : 6, "name" : "Henna", "age" : 18, "dept" : "ENTC",
"marks" : 90 }
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Update:
      db.students.updateMany({dept:"ENTC"},{$inc:{marks:5}})
      output
      { "acknowledged": true, "matchedCount": 2, "modifiedCount": 2 }
      After Update
      db.students.find({dept:"ENTC"})
      { "_id" : 3, "name" : "Sayali", "age" : 18, "dept" : "ENTC", "marks" : 102 } { "_id" : 6, "name" : "Henna", "age" : 18, "dept" : "ENTC",
"marks" : 95
4) DELETE
      1] Delete One
      db.students.deleteOne({ id:3})
       {"acknowledged": true, "deletedCount": 1}
      2] Delete Many
      db.students.deleteMany({dept:"IT"})
      { "acknowledged" : true, "deletedCount" : 2 }
      db.students.find({dept:"IT"}) // no output
5) SAVE(INSERT+UPDATE)
      db.students.save({_id:7,name:"Mayuri",dept:"Computer",marks:80})
      WriteResult({ "nMatched" : 0, "nUpserted" : 1, "nModified" :
0, " id" :
      db.students.find({_id:7})
      { "_id" : 7, "name" : "Mayuri", "dept" : "Computer", "marks" :
80 }
      db.students.save({_id:7,name:"Mayuri",dept:"Computer",marks:90})
      WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1
})
      db.students.find({_id:7})
      { "_id" : 7, "name" : "Mayuri", "dept" : "Computer", "marks" :
90 }
```