**Assignment 3**

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Class: TEIT Roll. No.: 20 Batch: T1

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Design and Implement any 5 query using MongoDB

Microsoft Windows [Version 6.3.9600]

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C:\Users\admin>cd\

C:\>cd C:\Program Files\MongoDB 2.6 Standard\bin

C:\Program Files\MongoDB 2.6 Standard\bin>mongo

MongoDB shell version: 2.6.2

connecting to: test

Server has startup warnings:

2015-07-27T11:33:56.493+0530 [initandlisten]

2015-07-27T11:33:56.493+0530 [initandlisten] \*\* NOTE: This is a 32 bit MongoDB b

inary.

2015-07-27T11:33:56.493+0530 [initandlisten] \*\* 32 bit builds are limited

to less than 2GB of data (or less with --journal).

2015-07-27T11:33:56.494+0530 [initandlisten] \*\* Note that journaling defau

lts to off for 32 bit and is currently off.

2015-07-27T11:33:56.494+0530 [initandlisten] \*\* See http://dochub.mongodb.

org/core/32bit

2015-07-27T11:33:56.494+0530 [initandlisten]

> use te20;

switched to db te20

> show databases;

admin (empty)

local 0.078GB

> db.createCollection("teacher\_info");

{ "ok" : 1 }

**Insert :-**

> db.teacher\_info.insert({teacher\_id:1,Teacher\_name:"Samkit",Dept\_name:"IT",sala

ry:30000,status:"A"});

WriteResult({ "nInserted" : 1 })

> db.teacher\_info.insert({teacher\_id:2,Teacher\_name:"Aishwarya",Dept\_name:"IT",s

alary:50000,status:"A"});

WriteResult({ "nInserted" : 1 })

> db.teacher\_info.insert({teacher\_id:3,Teacher\_name:"Prachin",Dept\_name:"IT",sal

ary:20000,status:"A"});

WriteResult({ "nInserted" : 1 })

> db.teacher\_info.insert({teacher\_id:4,Teacher\_name:"Prateek",Dept\_name:"IT",sal

ary:25000,status:"A"});

WriteResult({ "nInserted" : 1 })

> db.teacher\_info.insert({teacher\_id:5,Teacher\_name:"Neena",Dept\_name:"IT",salar

y:27000,status:"A"});

WriteResult({ "nInserted" : 1 })

**Find : -**

> db.teacher\_info.find();

{ "\_id" : ObjectId("55b5cecaadd677dd421bb577"), "teacher\_id" : 1, "Teacher\_name"

: "Samkit", "Dept\_name" : "IT", "salary" : 30000, "status" : "A" }

{ "\_id" : ObjectId("55b5cf79add677dd421bb578"), "teacher\_id" : 2, "Teacher\_name"

: "Aishwarya", "Dept\_name" : "IT", "salary" : 50000, "status" : "A" }

{ "\_id" : ObjectId("55b5cfbcadd677dd421bb579"), "teacher\_id" : 3, "Teacher\_name"

: "Prachin", "Dept\_name" : "IT", "salary" : 20000, "status" : "A" }

{ "\_id" : ObjectId("55b5cfd6add677dd421bb57a"), "teacher\_id" : 4, "Teacher\_name"

: "Prateek", "Dept\_name" : "IT", "salary" : 25000, "status" : "A" }

{ "\_id" : ObjectId("55b5cff4add677dd421bb57b"), "teacher\_id" : 5, "Teacher\_name"

: "Neena", "Dept\_name" : "IT", "salary" : 27000, "status" : "A" }

> show collections;

system.indexes

teacher\_info

> db.teacher\_info.find({salary:30000});

{ "\_id" : ObjectId("55b5cecaadd677dd421bb577"), "teacher\_id" : 1, "Teacher\_name"

: "Samkit", "Dept\_name" : "IT", "salary" : 30000, "status" : "A" }

> db.teacher\_info.find({teacher\_id:2});

{ "\_id" : ObjectId("55b5cf79add677dd421bb578"), "teacher\_id" : 2, "Teacher\_name"

: "Aishwarya", "Dept\_name" : "IT", "salary" : 50000, "status" : "A" }

> db.teacher\_info.find({teacher\_id:{$ne:"1"}});

{ "\_id" : ObjectId("55b5cecaadd677dd421bb577"), "teacher\_id" : 1, "Teacher\_name"

: "Samkit", "Dept\_name" : "IT", "salary" : 30000, "status" : "A" }

{ "\_id" : ObjectId("55b5cf79add677dd421bb578"), "teacher\_id" : 2, "Teacher\_name"

: "Aishwarya", "Dept\_name" : "IT", "salary" : 50000, "status" : "A" }

{ "\_id" : ObjectId("55b5cfbcadd677dd421bb579"), "teacher\_id" : 3, "Teacher\_name"

: "Prachin", "Dept\_name" : "IT", "salary" : 20000, "status" : "A" }

{ "\_id" : ObjectId("55b5cfd6add677dd421bb57a"), "teacher\_id" : 4, "Teacher\_name"

: "Prateek", "Dept\_name" : "IT", "salary" : 25000, "status" : "A" }

{ "\_id" : ObjectId("55b5cff4add677dd421bb57b"), "teacher\_id" : 5, "Teacher\_name"

: "Neena", "Dept\_name" : "IT", "salary" : 27000, "status" : "A" }

> db.teacher\_info.find({teacher\_id:{$ne:1}});

{ "\_id" : ObjectId("55b5cf79add677dd421bb578"), "teacher\_id" : 2, "Teacher\_name"

: "Aishwarya", "Dept\_name" : "IT", "salary" : 50000, "status" : "A" }

{ "\_id" : ObjectId("55b5cfbcadd677dd421bb579"), "teacher\_id" : 3, "Teacher\_name"

: "Prachin", "Dept\_name" : "IT", "salary" : 20000, "status" : "A" }

{ "\_id" : ObjectId("55b5cfd6add677dd421bb57a"), "teacher\_id" : 4, "Teacher\_name"

: "Prateek", "Dept\_name" : "IT", "salary" : 25000, "status" : "A" }

{ "\_id" : ObjectId("55b5cff4add677dd421bb57b"), "teacher\_id" : 5, "Teacher\_name"

: "Neena", "Dept\_name" : "IT", "salary" : 27000, "status" : "A" }

> db.teacher\_info.find({$and:[{status:"A"},{salary:30000}]});

{ "\_id" : ObjectId("55b5cecaadd677dd421bb577"), "teacher\_id" : 1, "Teacher\_name"

: "Samkit", "Dept\_name" : "IT", "salary" : 30000, "status" : "A" }

> db.teacher\_info.find({status:"A"});

{ "\_id" : ObjectId("55b5cecaadd677dd421bb577"), "teacher\_id" : 1, "Teacher\_name"

: "Samkit", "Dept\_name" : "IT", "salary" : 30000, "status" : "A" }

{ "\_id" : ObjectId("55b5cf79add677dd421bb578"), "teacher\_id" : 2, "Teacher\_name"

: "Aishwarya", "Dept\_name" : "IT", "salary" : 50000, "status" : "A" }

{ "\_id" : ObjectId("55b5cfbcadd677dd421bb579"), "teacher\_id" : 3, "Teacher\_name"

: "Prachin", "Dept\_name" : "IT", "salary" : 20000, "status" : "A" }

{ "\_id" : ObjectId("55b5cfd6add677dd421bb57a"), "teacher\_id" : 4, "Teacher\_name"

: "Prateek", "Dept\_name" : "IT", "salary" : 25000, "status" : "A" }

{ "\_id" : ObjectId("55b5cff4add677dd421bb57b"), "teacher\_id" : 5, "Teacher\_name"

: "Neena", "Dept\_name" : "IT", "salary" : 27000, "status" : "A" }

> db.teacher\_info.find({status:"A"}).sort({salary:1});

{ "\_id" : ObjectId("55b5cfbcadd677dd421bb579"), "teacher\_id" : 3, "Teacher\_name"

: "Prachin", "Dept\_name" : "IT", "salary" : 20000, "status" : "A" }

{ "\_id" : ObjectId("55b5cfd6add677dd421bb57a"), "teacher\_id" : 4, "Teacher\_name"

: "Prateek", "Dept\_name" : "IT", "salary" : 25000, "status" : "A" }

{ "\_id" : ObjectId("55b5cff4add677dd421bb57b"), "teacher\_id" : 5, "Teacher\_name"

: "Neena", "Dept\_name" : "IT", "salary" : 27000, "status" : "A" }

{ "\_id" : ObjectId("55b5cecaadd677dd421bb577"), "teacher\_id" : 1, "Teacher\_name"

: "Samkit", "Dept\_name" : "IT", "salary" : 30000, "status" : "A" }

{ "\_id" : ObjectId("55b5cf79add677dd421bb578"), "teacher\_id" : 2, "Teacher\_name"

: "Aishwarya", "Dept\_name" : "IT", "salary" : 50000, "status" : "A" }

> db.teacher\_info.find({status:"A"}).sort({salary:-1});

{ "\_id" : ObjectId("55b5cf79add677dd421bb578"), "teacher\_id" : 2, "Teacher\_name"

: "Aishwarya", "Dept\_name" : "IT", "salary" : 50000, "status" : "A" }

{ "\_id" : ObjectId("55b5cecaadd677dd421bb577"), "teacher\_id" : 1, "Teacher\_name"

: "Samkit", "Dept\_name" : "IT", "salary" : 30000, "status" : "A" }

{ "\_id" : ObjectId("55b5cff4add677dd421bb57b"), "teacher\_id" : 5, "Teacher\_name"

: "Neena", "Dept\_name" : "IT", "salary" : 27000, "status" : "A" }

{ "\_id" : ObjectId("55b5cfd6add677dd421bb57a"), "teacher\_id" : 4, "Teacher\_name"

: "Prateek", "Dept\_name" : "IT", "salary" : 25000, "status" : "A" }

{ "\_id" : ObjectId("55b5cfbcadd677dd421bb579"), "teacher\_id" : 3, "Teacher\_name"

: "Prachin", "Dept\_name" : "IT", "salary" : 20000, "status" : "A" }

**Count :-**

> db.teacher\_info.count();

5

**Distinct : -**

> db.teacher\_info.distinct("Teacher\_name");

[ "Samkit", "Aishwarya", "Prachin", "Prateek", "Neena" ]

> db.teacher\_info.find({salary:{&gt:20000}});

2015-07-27T12:27:17.663+0530 SyntaxError: Unexpected token &

> db.teacher\_info.find({salary:{$gt:20000}});

{ "\_id" : ObjectId("55b5cecaadd677dd421bb577"), "teacher\_id" : 1, "Teacher\_name"

: "Samkit", "Dept\_name" : "IT", "salary" : 30000, "status" : "A" }

{ "\_id" : ObjectId("55b5cf79add677dd421bb578"), "teacher\_id" : 2, "Teacher\_name"

: "Aishwarya", "Dept\_name" : "IT", "salary" : 50000, "status" : "A" }

{ "\_id" : ObjectId("55b5cfd6add677dd421bb57a"), "teacher\_id" : 4, "Teacher\_name"

: "Prateek", "Dept\_name" : "IT", "salary" : 25000, "status" : "A" }

{ "\_id" : ObjectId("55b5cff4add677dd421bb57b"), "teacher\_id" : 5, "Teacher\_name"

: "Neena", "Dept\_name" : "IT", "salary" : 27000, "status" : "A" }

> db.teacher\_info.find({salary:{$lt:25000}});

{ "\_id" : ObjectId("55b5cfbcadd677dd421bb579"), "teacher\_id" : 3, "Teacher\_name"

: "Prachin", "Dept\_name" : "IT", "salary" : 20000, "status" : "A" }

**Update: -**

> db.teacher\_info.update({salary:{$gt:27000}},{$set:{Dept\_name:"ENTC"}},{multi:true});

WriteResult({ "nMatched" : 2, "nUpserted" : 0, "nModified" : 2 })

> db.teacher\_info.find();

{ "\_id" : ObjectId("55b5cecaadd677dd421bb577"), "teacher\_id" : 1, "Teacher\_name"

: "Samkit", "Dept\_name" : "ENTC", "salary" : 30000, "status" : "A" }

{ "\_id" : ObjectId("55b5cf79add677dd421bb578"), "teacher\_id" : 2, "Teacher\_name"

: "Aishwarya", "Dept\_name" : "ENTC", "salary" : 50000, "status" : "A" }

{ "\_id" : ObjectId("55b5cfbcadd677dd421bb579"), "teacher\_id" : 3, "Teacher\_name"

: "Prachin", "Dept\_name" : "IT", "salary" : 20000, "status" : "A" }

{ "\_id" : ObjectId("55b5cfd6add677dd421bb57a"), "teacher\_id" : 4, "Teacher\_name"

: "Prateek", "Dept\_name" : "IT", "salary" : 25000, "status" : "A" }

{ "\_id" : ObjectId("55b5cff4add677dd421bb57b"), "teacher\_id" : 5, "Teacher\_name"

: "Neena", "Dept\_name" : "IT", "salary" : 27000, "status" : "A" }

**Remove : -**

> db.teacher\_info.remove({salary:20000});

WriteResult({ "nRemoved" : 1 })

> db.teacher\_info.find();

{ "\_id" : ObjectId("55b5cecaadd677dd421bb577"), "teacher\_id" : 1, "Teacher\_name"

: "Samkit", "Dept\_name" : "ENTC", "salary" : 30000, "status" : "A" }

{ "\_id" : ObjectId("55b5cf79add677dd421bb578"), "teacher\_id" : 2, "Teacher\_name"

: "Aishwarya", "Dept\_name" : "ENTC", "salary" : 50000, "status" : "A" }

{ "\_id" : ObjectId("55b5cfd6add677dd421bb57a"), "teacher\_id" : 4, "Teacher\_name"

: "Prateek", "Dept\_name" : "IT", "salary" : 25000, "status" : "A" }

{ "\_id" : ObjectId("55b5cff4add677dd421bb57b"), "teacher\_id" : 5, "Teacher\_name"

: "Neena", "Dept\_name" : "IT", "salary" : 27000, "status" : "A" }

> db.teacher\_info.remove({});

WriteResult({ "nRemoved" : 4 })