

>use Class

<switched to db Class

db.users.insertMany([

{"user\_id":1,"name":"Lim","email":"lim@gmail.com"},

{"user\_id":2,"name":"Kim","email":"kim@gmail.com"},

{"user\_id":3,"name":"Jim","email":"jim@gmail.com"},

{"user\_id":4,"name":"Rim","email":"rim@gmail.com"},

{"user\_id":5,"name":"Vim","email":"vim@gmail.com"}

])

db.codekata.insertMany([

{"user\_id":1,"problem\_solved":10,"date\_solved":new Date("2020-oct-02")},

{"user\_id":2,"problem\_solved":15,"date\_solved":new Date("2020-oct-28")},

{"user\_id":3,"problem\_solved":20,"date\_solved":new Date("2020-oct-16")},

{"user\_id":4,"problem\_solved":25,"date\_solved":new Date("2020-oct-05")},

{"user\_id":5,"problem\_solved":30,"date\_solved":new Date("2020-oct-09")}

])

db.attendance.insertMany([

{"user\_id":1,"status":"true","date\_attended":new Date("2020-oct-02")},

{"user\_id":2,"status":"false","date\_attended":new Date("2020-oct-04")},

{"user\_id":3,"status":"true","date\_attended":new Date("2020-oct-18")},

{"user\_id":4,"status":"true","date\_attended":new Date("2020-oct-20")},

{"user\_id":5,"status":"false","date\_attended":new Date("2020-oct-22")}

])

db.topics.insertMany([

{"topic\_id":1,"topic\_name":"HTML","topic\_date":new Date("2020-oct-03")},

{"topic\_id":2,"topic\_name":"CSS","topic\_date":new Date("2020-oct-05")},

{"topic\_id":3,"topic\_name":"Bootstrap","topic\_date":new Date("2020-oct-17")},

{"topic\_id":4,"topic\_name":"DOM","topic\_date":new Date("2020-oct-21")},

{"topic\_id":5,"topic\_name":"Javascript","topic\_date":new Date("2020-oct-23")}

])

db.tasks.insertMany([

{"user\_id":1,"task\_id":1,"topic\_date": 5 , "date\_solved":new Date("2020-oct-05")},

{"user\_id":2,"task\_id":2,"topic-date": 4 , "date\_solved":new Date("2020-oct-14")},

{"user\_id":3,"task\_id":3,"topic\_date": 2 , "date\_solved":new Date("2020-oct-17")},

{"user\_id":4,"task\_id":4,"topic\_date": 3 , "date\_solved":new Date("2020-oct-20")},

{"user\_id":5,"task\_id":5,"topic\_date": 1 , "date\_solved":new Date("2020-oct-25")}

])

db.company.insertMany([

{"user\_id":1,"drive name":"Apple","company\_attended":new Date("2020-oct-02")},

{"user\_id":2,"drive name":"Amazon","company\_attended":new Date("2020-oct-04")},

{"user\_id":3,"drive name":"Flipkart","company\_attended":new Date("2020-oct-18")},

{"user\_id":4,"drive name":"Myntra","company\_attended":new Date("2020-oct-20")},

{"user\_id":5,"drive name":"Google","company\_attended":new Date("2020-oct-22")}

])

db.mentors.insertMany([

{"mentor\_id":1,"name":"Jay","email":"jay@gmail.com","mentee\_count":10},

{"mentor\_id":2,"name":"Kay","email":"kay@gmail.com","mentee\_count":13},

{"mentor\_id":3,"name":"Tay","email":"tay@gmail.com","mentee-count":17},

{"mentor\_id":4,"name":"Ray","email":"ray@gmail.com","mentee\_count":20},

{"mentor\_id":5,"name":"Zay","email":"zay@gmail.com","mentee-count":25}

])

**SOLUTIONS:**

**Find all the topics and tasks which are thought in the month of October**

1. db.topics.find({

"topic\_date": {

$gte: new Date("2020-10-01"),

$lte: new Date("2020-10-31")

}

})

db.tasks.find({

"date\_solved": {

$gte: new Date("2020-10-01"),

$lte: new Date("2020-10-31")

}

})

**Find all the company drives which appeared between 15 oct-2020 and 31-oct-2020**

2. db.company.find({

"company\_attended": {

$gte: new Date("2020-10-15"),

$lte: new Date("2020-10-31")

}

})

**Find all the company drives and students who are appeared for the placement.**

3. db.company.aggregate([

{

$lookup: {

from: "users",

localField: "user\_id",

foreignField: "user\_id",

as: "student\_info"

}

}

])

**Find the number of problems solved by the user in codekata**

4. db.codekata.aggregate([

{

$group: {

\_id: "$user\_id",

total\_problems\_solved: { $sum: "$problem\_solved" }

}

}

])

**Find all the mentors with who has the mentee's count more than 15**

5. db.mentors.find({

“mentee\_count” : {$gt:15}

})

(or)

db.mentors.aggregate([

{$match:{“mentee\_count” : {$gt:15}}}

])

**Find the number of users who are absent and task is not submitted  between 15 oct-2020 and 31-oct-2020**

6. db.users.aggregate([

{

$lookup: {

from: "attendance",

localField: "user\_id",

foreignField: "user\_id",

as: "attendance"

}

},

{

$lookup: {

from: "tasks",

localField: "user\_id",

foreignField: "user\_id",

as: "tasks"

}

},

{

$match: {

$and: [

{ "attendance": { $not: { $elemMatch: { status: "true", date\_attended: { $gte: new Date("2020-10-15"), $lte: new Date("2020-10-31") } } } } },

{ "tasks": { $not: { $elemMatch: { date\_solved: { $gte: new Date("2020-10-15"), $lte: new Date("2020-10-31") } } } } }

]

}

},

{

$count: "total\_users"

}

]);