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

db.getCollection('topics').aggregate(

[

{

$lookup: {

from: 'tasks',

localField: 'topicId',

foreignField: 'topicId',

as: 'task'

}

},

{

$match: { topicDate: { $regex: '2023-10' } }

},

{

$project: {

\_id: 0,

topic: 1,

topicDate: 1,

'task.userId': 1,

'task.submitted': 1,

'task.task': 1

}

}

],

{ maxTimeMS: 60000, allowDiskUse: true }

);

## 2. Find all the company drives which appeared between 15 oct-2020 and 31-oct-2020

db.getCollection('company\_drives').find({

driveDate: {

$gte: '2020-10-15',

$lte: '2020-10-31'

}

});

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

db.getCollection('company\_drives').aggregate(

[

{

$lookup: {

from: 'users',

localField: 'userId',

foreignField: 'userId',

as: 'student'

}

},

{

$project: {

\_id: 0,

'student.userName': 1,

company: 1,

driveDate: 1,

'student.userEmail': 1,

'student.userId': 1

}

}

],

{ maxTimeMS: 60000, allowDiskUse: true }

);

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

db.getCollection('codekata').aggregate(

[

{

$group: {

\_id: 'total problem solved by user',

count: { $sum: '$problemSolved' }

}

}

],

{ maxTimeMS: 60000, allowDiskUse: true }

);

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

{"menteeCount":{"$gt":"15"}}

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

db.getCollection('attendance').aggregate(

[

{

$lookup: {

from: 'topics',

localField: 'topicId',

foreignField: 'topicId',

as: 'absent'

}

},

{

$lookup: {

from: 'tasks',

localField: 'userId',

foreignField: 'userId',

as: 'ns'

}

},

{

$match: {

attended: false,

'absent.topicDate': {

$gte: '2023-10-15',

$lte: '2023-10-31'

}

}

},

{

$match: {

'ns.dueDate': {

$gte: '2023-10-15',

$lte: '2023-10-31'

},

'ns.submitted': false

}

},

{ $project: { \_id: 0, 'absent.\_id': 0 } },

{ $project: { 'ns.\_id': 0 } }

],

{ maxTimeMS: 60000, allowDiskUse: true }

);