# **MongoDB Task**

## Design database for Zen class programme

```
users
codekata
attendance
topics
tasks
company_drives
mentors
```

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

#### ANS:

```
{} My Que... Im codekata Szen_cla... Im users Im topic
                                                                             x attendance company_driver
   localhost:27017 ...
                                                                                                     0
                                                                                                           1
                   zen_class.topic
  db.topic.aggregate([
  $match : { topic_date : { $gte : ISODate("2023-10-01T00:00:00.000+00:00"), $lte : ISODate("2023-10-30T23:30:00.000+00:00") } }
   topic_title: 'MTML',
topic_description: 'What is HTML & Why use it?',
topic_date: 2023-10-01T18:30:00.000Z,
     task_name: 'Write a code in HTMl element',
topic_id: ObjectId('65b4a9d9c8807d81b1453dbc'),
db.topic.aggregate([
},
$lookup : { from : "task", localField : "task_id", foreignField : "_id", as :
"task" }
])
```

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

#### ANS:

```
{} My Que...
                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                   1
                                            zen class.company driver
    drive_date : {
    $gte : ISODate('2023-10-15T00:00:00.000+00:00'),
       $lte : ISODate('2023-10-31T23:59:50.000+00:00')
       _id: ObjectId('65b4c3e92d8d1f0fd045e48f'),
company_id: ObjectId('65b4c3e92d8d1f0fd045e484'),
user_id: ObjectId('65b4997f2d8d1f0fd045e447'),
       role: 'Back-end developer',
drive_date: 2023-10-16T08:50:40.000Z,
       company_name: 'Infosys',
role: 'Junior full stack developer',
drive_date: 2023-10-19T08:50:48.000Z,
db.company_driver.find({
drive_date : {
```

```
$gte: ISODate('2023-10-15T00:00:00.000+00:00'),
$Ite: ISODate('2023-10-31T23:59:50.000+00:00')
})
```

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

## ANS:

```
db.company_driver.aggregate([
$lookup : {    from : "users", localField : "user_id", foreignField:
"_id", as : "participated" }
```



4. Find the number of problems solved by the user in codekata

# ANS:

```
Mongace Compass - boshots 27017 cm, dissuases

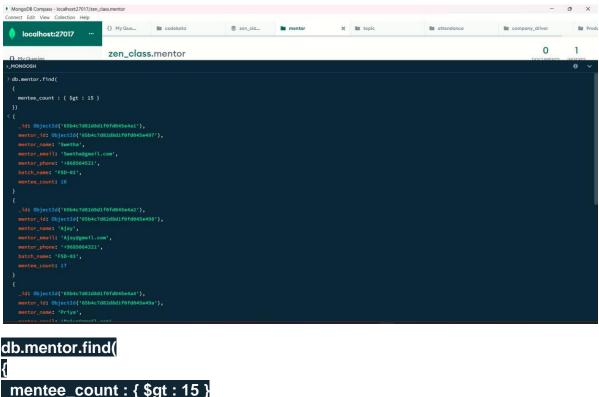
Cornect fait View Collection Help

| localhosts 27017 cm
| | localhosts 27017
```

```
$group: {
  id: "$user id",
 total_sum_solved : { $sum : "$earned_points"}
}
1)
```

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

## ANS:



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

```
Ans:
$match : { date : { $gte : ISODate("2023-10-01T00:00:00.000+00:00"), $lte
$lookup : { from : "task", localField : "user_id", foreignField : "user_id", as :
"task"}
```

```
},
{
$match : { date : { $gte : ISODate("2023-10-01T00:00:00.000+00:00"), $Ite
:ISODate("2023-10-31T23:59:00.000+00:00") }, "task.task_submitted" : false }
}
])
```