MongoDB Task

Design database for Zen class programme
users
codekata
attendance
topics
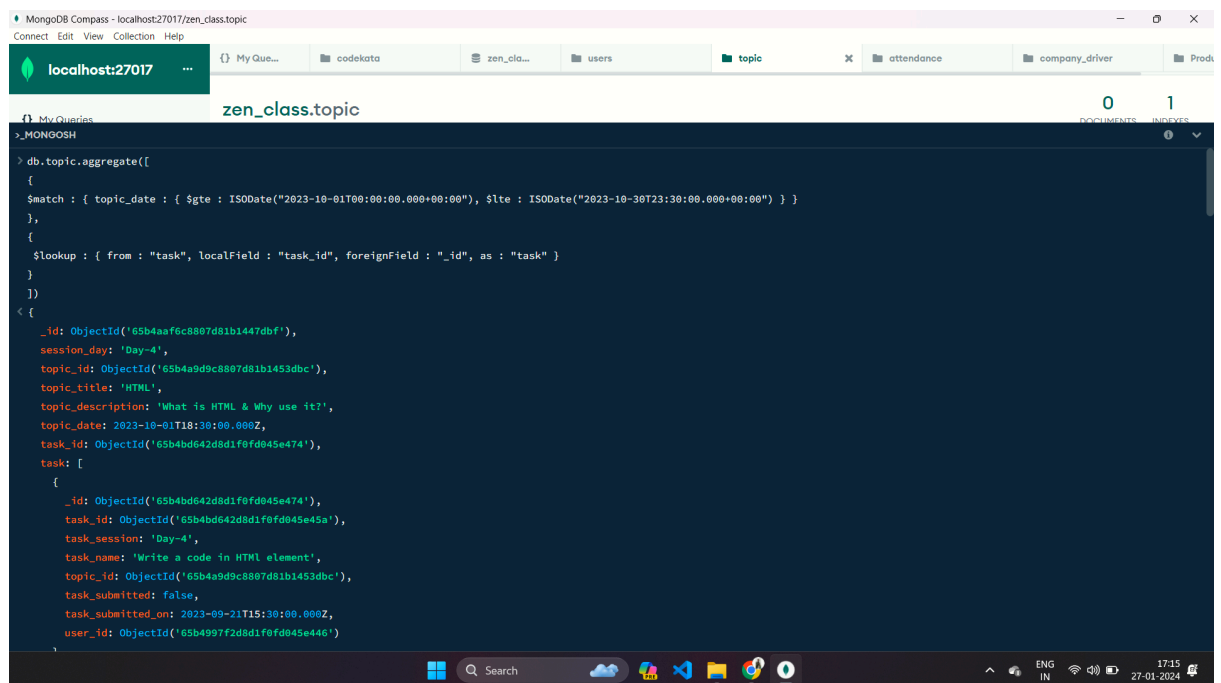tasks
company_drives
mentors

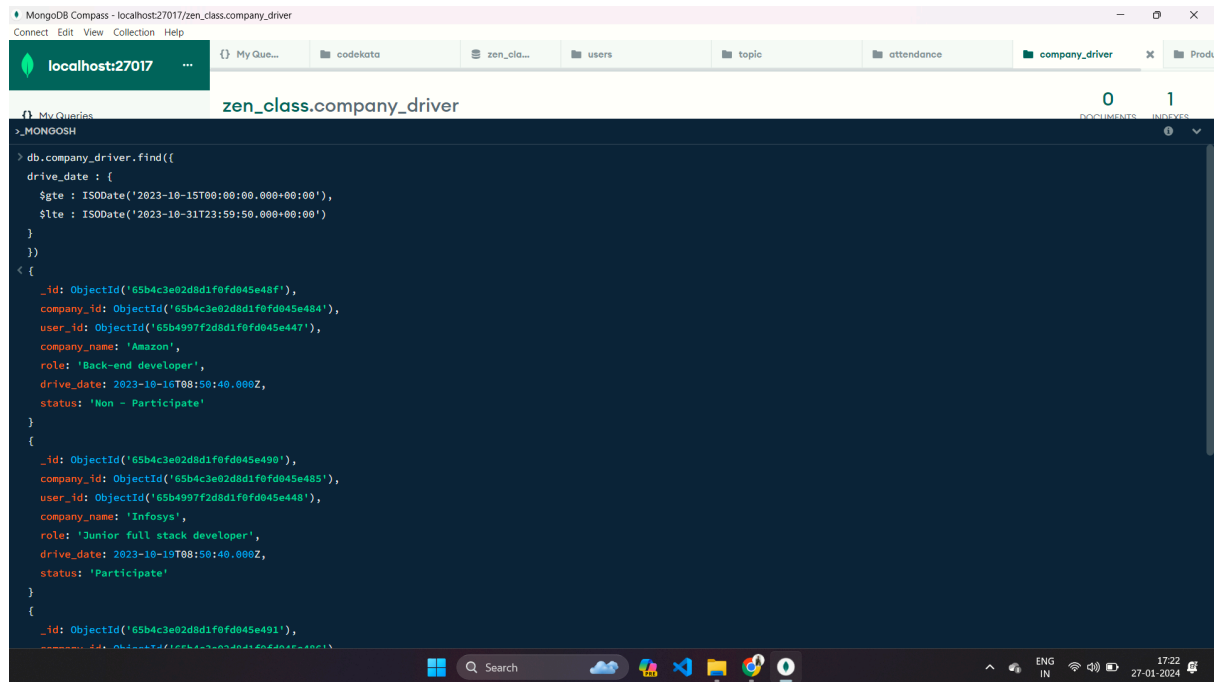1. Find all the topics and tasks which are thought in the month of October

   ANS :


```
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") } }
},
{
 $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 :


```
db.company_driver.find({
drive_date : {
  $gte : ISODate('2023-10-15T00:00:00.000+00:00'),
  $lte : 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([
{ $match : { status : "Participate"} },
{
$lookup : { from : "users", localField : "user_id", foreignField: "_id", as : "participated"  }
```

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

ANS :

db.codekata.aggregate([

{

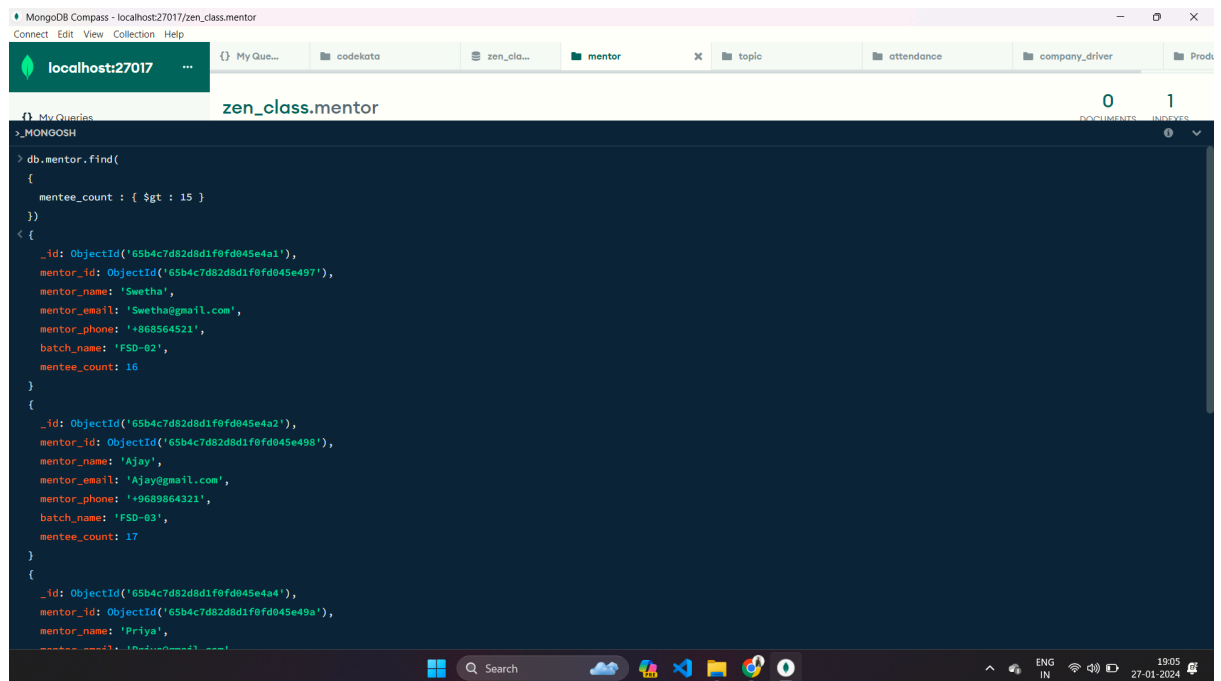**$match : { problem_solved : true}**

},

{

```
$group : {
  _id : "$user_id",
  total_sum_solved : { $sum : "$earned_points"}
 }
}
])
```

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

ANS :


```
db.mentor.find(
{
  mentee_count : { $gt : 15 }
})
```

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 :ISODate("2023-10-31T23:59:00.000+00:00") }, attendance_status : false }
},
{
$lookup : { from : "task", localField : "user_id", foreignField : "user_id", as : "task"}
```

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