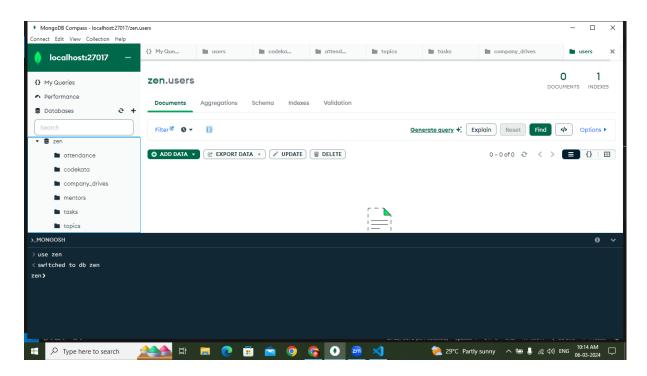
MongoDB Task - 2

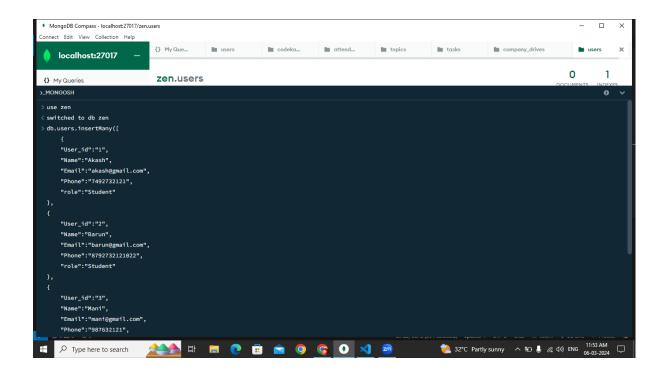
Design database for Zen class programme

users
codekata
attendance
topics
tasks
company_drives
mentors

Create DB and collections



Insert data in 'users' collection
db.users.insertMany()



Insert data in 'codekata' collection

db.codekata.insertMany()

```
    MongoDB Compass - localhost:27017/zen.codekata

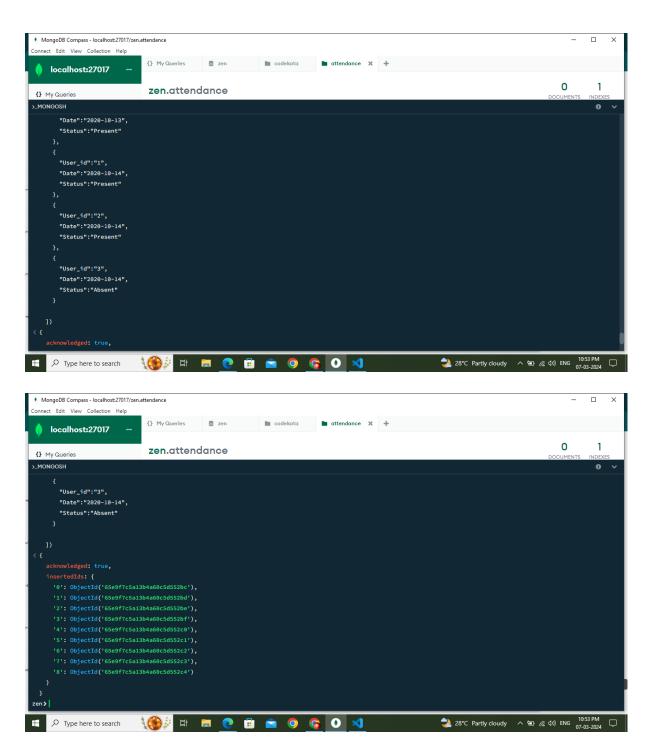
                                                                                                       □ ×
Connect Edit View Collection Help
                     {} My Queries S zen codekata X +
   localhost:27017
                                                                                                  0
                                                                                                        1
                     zen.codekata
{} My Queries
>_MONGOSH
> db.codekata.insertMany([
      "Date":"2020-10-10",
      "Problems_solved":"5"
      "Date":"2020-10-15",
       "Problems_solved":"15"
      "Problems_solved":"6"
      "Problems_solved":"9"
```

```
    MongoDB Compass - localhost:27017/zen.codekata

                                                                                                    ×
                     localhost:27017
                                                                                                     1
                     zen.codekata
 {} My Queries
                                                                                                     0
      "Date":"2020-10-18",
      "Problems_solved":"9"
      "Date":"2020-10-15",
      "Problems_solved":"9"
                                                                         O 0 G ×
Type here to search
```

Insert data in 'attendance' collection

db.attendance.insertMany()



Insert data in 'topics' collection

 ${\bf db.topics.insertMany}()$

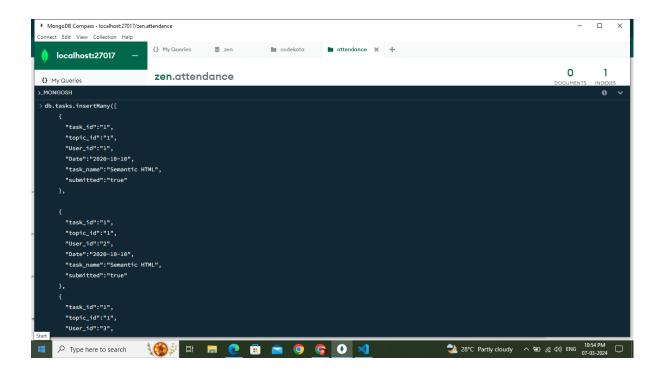
```
    MongoDB Compass - localhost:27017/zen.codekata

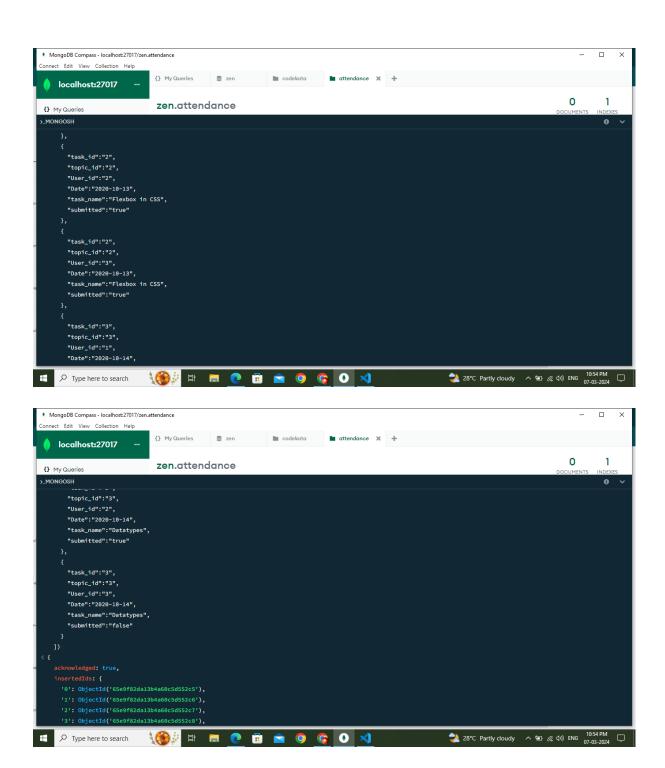
                                                                                                                     ×
                        {} My Queries 

■ codekata × +
    localhost:27017
                                                                                                                   1
                        zen.codekata
                                                                                                                   0
  db.topics.insertMany([
      "topic_id":"1",
      "Date":"2020-10-10",
      "topic_name":"HTML"
      "Date": "2020-10-15",
      "topic_name":"CSS"
      "Date":"2020-10-18",
      "topic_name":"Javascript"
                                                                                   Type here to search
```

Insert data in 'tasks' collection

db.tasks.insertMany()



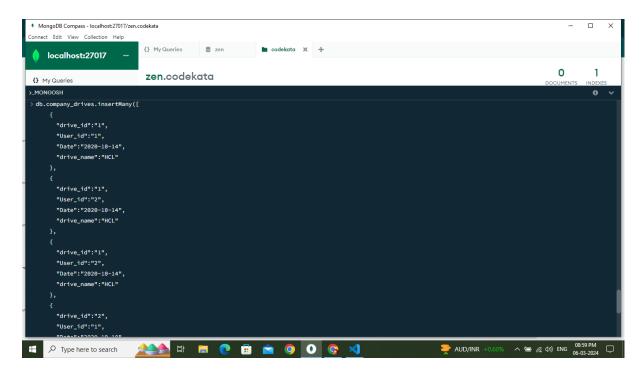


```
    MongoDB Compass - localhost:27017/zen.attendance

                                                                                                                  {} My Queries 🛢 zen 🖿 codekata 🖿 attendance 🗶 🕂
    localhost:27017
                                                                                                                    1
                        zen.attendance
                                                                                                                    0
      "topic_id":"3",
     "Date":"2020-10-14",
     "task_name":"Datatypes",
      "submitted":"false"
    '6': ObjectId('65e9f82da13b4a60c5d552cb'),
zen>
                                               Type here to search
```

Insert data in 'company_drives' collection

db.company_drives.insertMany()

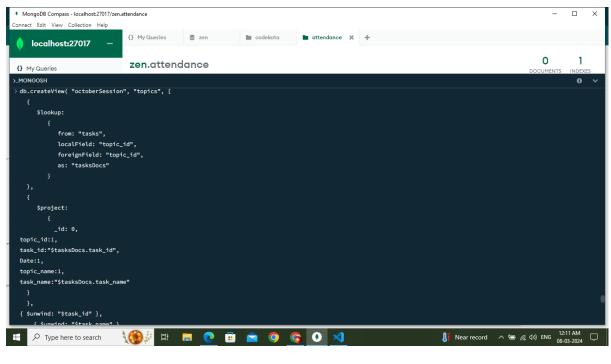


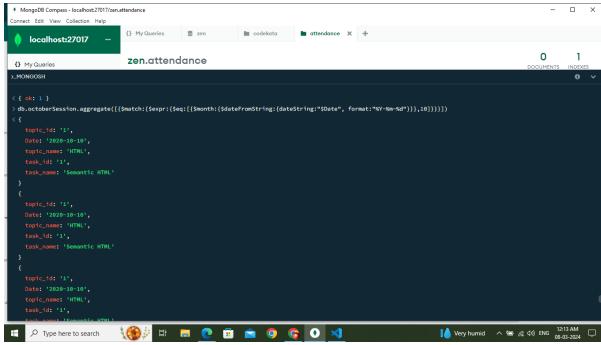
Insert data in 'mentors' collection

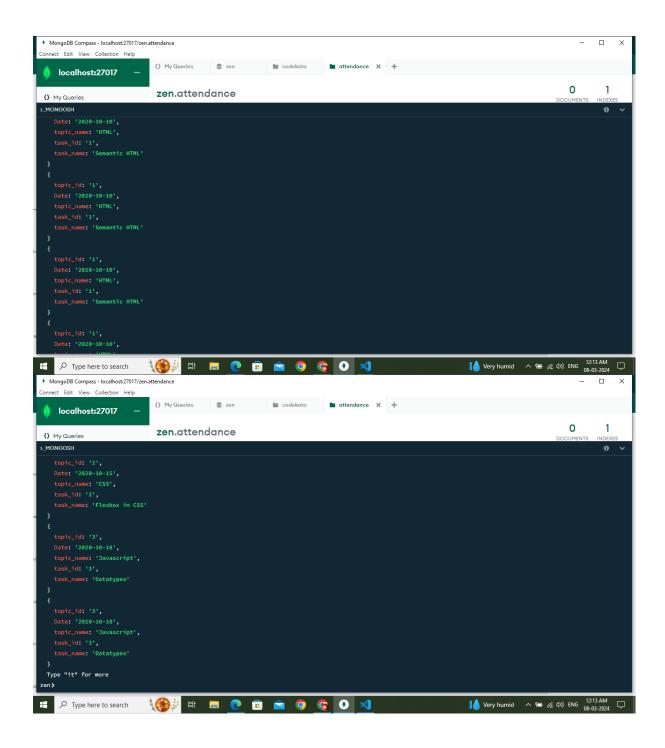
db.mentors.insertMany()

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

db.octoberSession.aggregate([{\$match:{\$expr:{\$eq:[{\$month:{\$dateFromString:{dateString:"\$Date", format:"%Y-%m-%d"}}},10]}}}])







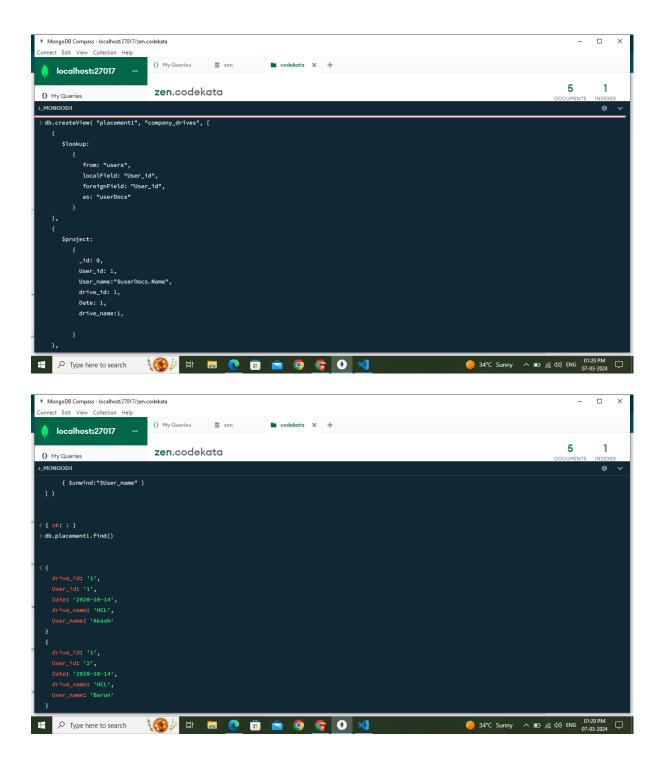
2. Find all the company drives which appeared between 15 oct-2020 and 31-oct-2020

db.company_drives.find({Date:{\$gte:"2020-10-15",\$lte:"2020-10-31"}})

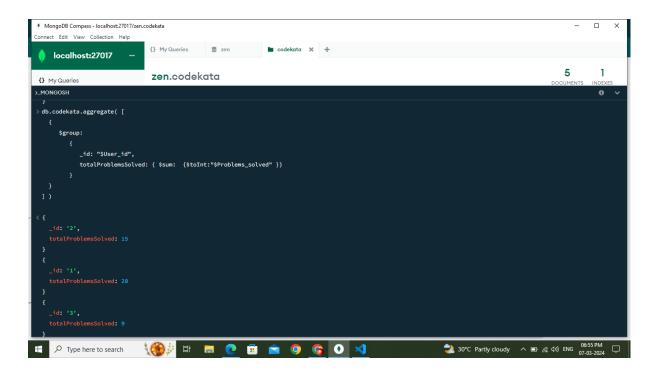
3. Find all the company drives and students who are appeared for the placement.

```
},
    { $unwind:"$User_name" }
])
```

db.placement1.find()

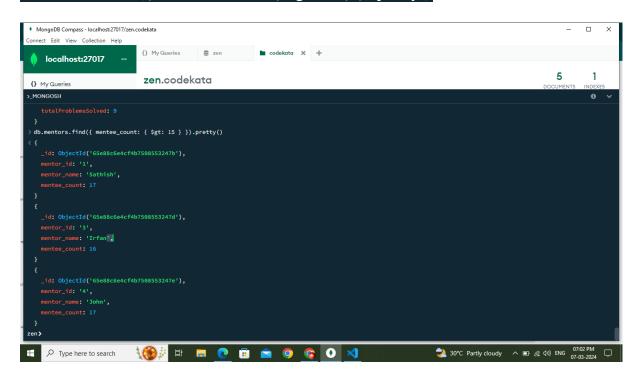


4. Find the number of problems solved by the user in codekata



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

db.mentors.find({ mentee_count: { \$gt: 15 } }).pretty()



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

```
db.attendance.aggregate([
{
```

```
$match:{
            Date:{
                   $gte:"2020-10-15", $lte:"2020-10-31"
},
            Status:"Absent"
},
      $lookup:{
            from:"tasks",
            localField:"User_id",
            foreignField:"User_id",
            as:"tasksDocs"
},
{
      $match:{
            "tasksDocs.submitted":"false"
},
{
      $group:{
            _id:null,
            count:{$sum:1}
            }
])
```

