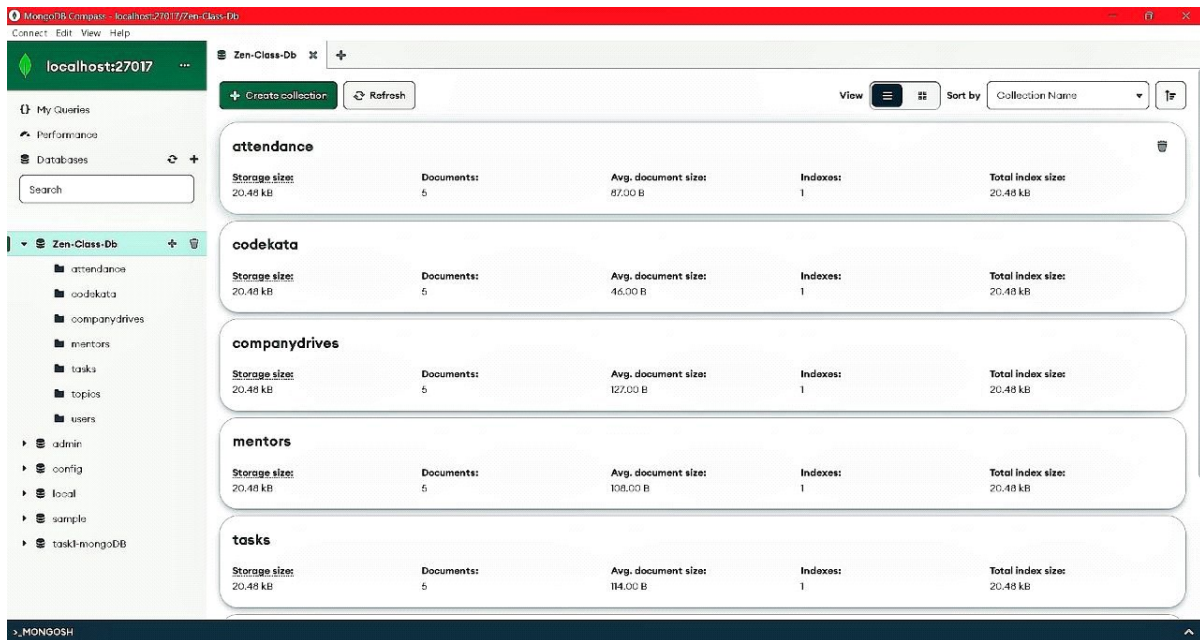


# MongoDB Task Day-2

## Design database for Zen class programme=>



## Queries:

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

Submitted :

```
db.topics.aggregate([
{
  $lookup: {
    from: "tasks",
    localField: "taskid",
    foreignField: "taskid",
    as: "details"
  }
},
{
  $match: {
    $and: [
      { topic_date: { $gte: new Date("2020-10-01"), $lte: new Date("2020-10-31") } },

```

```

    {
      $or: [
        { "details.due_date": { $gte: new Date("2020-10-01"), $lte: new Date("2020-10-31") } } },
        { "details.due_date": { $exists: false } }
      ]
    }
  ]
},
{
  $project: {
    _id: 0,
    topic_date: 1,
    topic: 1,
    task: "$details.task"
  }
}
])

```

```

< {
  topic: 'JavaScript',
  topic_date: 2020-10-16T00:00:00.000Z,
  task: [
    'JavaScript Task'
  ]
}
{
  topic: 'HTML',
  topic_date: 2020-10-23T00:00:00.000Z,
  task: [
    'HTML Task'
  ]
}
}

```

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

**Submitted :**

```

db.companydrives.find({$and:[{drive_date:{ $gte:new Date("2020-10-15")}},
{drive_date:{ $lte:new Date("2020-10-31")}}]},
{_id:0,drive_id:1,company:1,drive_date:1}).toArray()

```

```

> db.companydrives.find({$and:[{drive_date:{$gte:new Date("2020-10-15")}},
{drive_date:{$lte:new Date("2020-10-31")}}]}, {_id:0,drive_id:1,company:1,drive_date:1}).toArray()
< [
  {
    drive_id: 1,
    drive_date: 2020-10-19T00:00:00.000Z,
    company: 'Infosys'
  },
  {
    drive_id: 2,
    drive_date: 2020-10-27T00:00:00.000Z,
    company: 'Amazon'
  }
]

```

- Find all the company drives and students who are appeared for the placement?

Submitted :

*db.companydrives.find({}, {\_id:0}).toArray()*

```

drive_id: 1,
attendees: [ 'Max', 'Alf', 'Steve' ],
drive_date: 2020-10-19T00:00:00.000Z,
company: 'Infosys'
},
{
  drive_id: 2,
  attendees: [ 'Harry', 'Max', 'John' ],
  drive_date: 2020-10-27T00:00:00.000Z,
  company: 'Amazon'
},
{
  drive_id: 3,
  attendees: [ 'Alf', 'Harry', 'Steve', 'John' ],
  drive_date: 2020-11-08T00:00:00.000Z,
  company: 'HCL'
},
{
  drive_id: 4,
  attendees: [ 'Harry', 'Steve' ],
  drive_date: 2020-11-17T00:00:00.000Z,
  company: 'TCS'
},
{
  drive_id: 5,
  attendees: [ 'Max', 'John', 'Steve' ],
  drive_date: 2020-11-25T00:00:00.000Z,

```

- Find the number of problems solved by the user in codekata?

Submitted :

*db.codekata.find({}, {\_id:0}).toArray()*

```
> db.codekata.find({}, {_id:0}).toArray()
< [
  { userid: 1, solved: 55 },
  { userid: 2, solved: 100 },
  { userid: 3, solved: 90 },
  { userid: 4, solved: 70 },
  { userid: 5, solved: 67 }
]
```

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

Submitted :

```
db.mentors.find({mentee_count:{$gt:15}},{_id:0}).toArray()
```

```
> db.mentors.find({mentee_count:{$gt:15}},{_id:0}).toArray()
< [
  {
    mentorId: 2,
    mentorname: 'Rashid',
    mentor_email: 'rashid@gmail.com',
    mentee_count: 27
  },
  {
    mentorId: 3,
    mentorname: 'Ben',
    mentor_email: 'ben@gmail.com',
    mentee_count: 22
  },
  {
    mentorId: 4,
    mentorname: 'Farook',
    mentor_email: 'farook@gmail.com',
    mentee_count: 19
  }
]
```

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

Submitted :

```
db.users.countDocuments({$and: [{ absence: true, },
{
  task_pending: true,
}],
{
  date: {$gte: new Date("2020-10-15"),$lte: new Date("2020-10-31"), },},
})
```

```
> db.users.countDocuments({
  $and: [
    {
      absence: true,
    },
    {
      task_pending: true,
    },
    {
      date: {
        $gte: new Date("2020-10-15"),
        $lte: new Date("2020-10-31"),
      },
    },
  ],
})
< 1
```