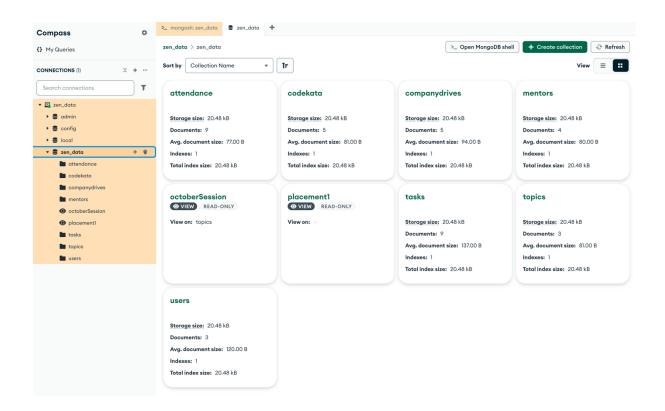
MongoDB - Task

- 1. Users
- 2. Code Kata
- 3. Attendance
- 4. Topics
- 5. Tasks
- 6. Company drives
- 7. Mentors

Technologies Used

- MongoDB
- JavaScript

Design a MongoDB database for Zen Class Program:



Queries Answers:

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

```
db.createView( "octoberSession", "topics", [
   $lookup:
      from: "tasks",
      localField: "topic id",
      foreignField: "topic id",
      as: "tasksDocs"
 },
   $project:
      id: 0,
topic id:1,
task id:"$tasksDocs.task id",
Date:1,
topic name:1,
task name:"$tasksDocs.task name"
 },
{ $unwind: "$task id" },
  { $unwind: "$task name" }
])
db.octoberSession.aggregate([{$match:{$expr:{$eq:[{$month:{$dateFromString:{dat}}}
eString:"$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.
db.createView( "placement1", "company drives", [
 {
   $lookup:
      from: "users",
```

```
localField: "User_id",
      foreignField: "User id",
      as: "userDocs"
 },
   $project:
      id: 0,
      User_id: 1,
      User name: "$userDocs.Name",
      drive_id: 1,
      Date: 1,
      drive name:1,
 },
   { $unwind:"$User_name" }
])
db.placement1.find()
4.
       Find the number of problems solved by the user in codekata
db.codekata.aggregate([
   $group:
       _id: "$User_id",
      totalProblemsSolved: { $sum: {$toInt:"$Problems_solved" }}
1)
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", $1te:"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\}
               }
}
])
```