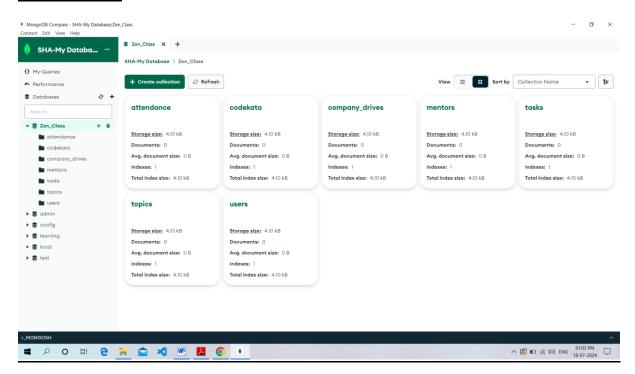
MongoDB Task – 2

Zen Class Database Collections:

users codekata attendance topics tasks company_drives mentors



Question & Answers:

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

Answer:

```
db.topics.aggregate([ { $lookup: {
from: "tasks",
localField: " id",
foreignField: "topic id",
as: "taskInfo" } },{ $unwind: "$taskInfo" }, { $match: {
"topic_taught_date": { $gte: new Date("2020-10-01"), $lt: new Date("2020-11-01") },
"taskInfo.task taught date": {
$gte: new Date("2020-10-01"),
$lt: new Date("2020-11-01") } },
{ $project: {
_id: 0,
topic name: 1,
topic taught date: {
$dateToString: { format: "%Y-%m-%d", date: "$topic_taught_date" } },
task_name: "$taskInfo.task_name",
task taught date: {
$dateToString: { format: "%Y-%m-%d", date: "$taskInfo.task_taught_date" } } } } ]);
```

```
db.topics.aggregate([
     from: "tasks",
     localField: "_id",
     foreignField: "topic_id",
   $unwind: "$taskInfo"
                                                                                                                      opic_taught_date: '2020-10-02',
ask_name: 'assigment 1',
      "topic_taught_date": {
       $gte: new Date("2020-10-01"),
       $lt: new Date("2828-11-81")
      "taskInfo.task_taught_date": {
       $gte: new Date("2020-10-01"),
                                                                                                                     task taught date: '2020-10-04'
       $lt: new Date("2020-11-01")
                                                                                                                    task_name: 'assignent 1',
task_taught_date: '2020-10-23'
   $project: {
                                                                                                               Zen_Class>
     topic_taught_date: {
       $dateToString: { format: "%Y-%m-%d", date: "$topic_taught_date" }
       ask_name: "$taskInfo.task_name",
     task taught date: {
       SdateToString: { format: "%Y-%m-%d", date: "StaskInfo.task_taught_date" }
```

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

Answer:

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

Answer:

```
db.company_drives.aggregate([
{ $lookup: {
from: 'users',
localField: ' id',
foreignField: 'company drive id',
as: 'studentInfo' } },
{ $unwind: '$studentInfo' },
{ $match: {'studentInfo.company_drive_status': 'attended' } },
{ $project: {
_id: 0,
drive name: 1,
drive_date: { $dateToString: { format: "%Y-%m-%d", date: "$drive_date" } },
student name: '$studentInfo.name',
student_email: '$studentInfo.email',
drive status: '$studentInfo.company drive status', } },
{ $sort: { drive_date: 1 } } ]);
```

```
db.company_drives.aggregate([
 { $lookup: {
                                                                                                         drive_name: 'IBM Job Fair',
      from: 'users',
                                                                                                         drive_date: '2828-18-82',
      localField: '_id',
      foreignField: 'company_drive_id',
      as: 'studentInfo'
                                                                                                         drive_status: 'attended'
 { Sunwind: 'SstudentInfo' },
                                                                                                        drive_name: 'Tata Jobs Event',
drive_date: '2828-18-12',
 { $match: ('studentInfo.company_drive_status': 'attended' ) },
 { $project: {
      drive_date: ( $dateToString: { format: "%Y-%m-%d", date: "$drive_date" } ),
      student_name: '$studentInfo.name',
      student_email: '$studentInfo.email',
      drive_status: '$studentInfo.company_drive_status',
                                                                                                         student_name: 'vijay sundaram',
student_email: 'vijay@example.com',
 { $sort: { drive_date: 1 } }
                                                                                                         drive_name: 'Infosys Job Fair',
drive_date: '2020-10-20',
                                                                                                         student_name: 'senthil raja',
student_email: 'thiru@gmail.com',
                                                                                                         drive_status: 'attended'
                                                                                                     Zen_Class>
```

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

Answer:

```
db.codekata.aggregate([
{ $lookup: {
from: 'users',
localField: 'user_id',
foreignField: ' id',
as: 'studentInfo' } },
{ $unwind: '$studentInfo' },
{ $group: {
_id: { user_id: '$studentInfo._id',
User_Name: '$studentInfo.name' },
total_problems_solved: { $sum: 1 } } },
{ $project: {
id: 0,
User Name: '$ id.User Name',
total_problems_solved: 1 } },
{ $sort: { total problems solved: -1 } } ]);
```

```
db.codekata.aggregate([
  { $lookup: {
                                                                                          total_problems_solved: 3,
User_Name: 'vijay sundaran'
      from: 'users',
      localField: 'user_id',
       foreignField: '_id',
      as: 'studentInfo'
                                                                                          total_problems_solved: 2,
User_Name: 'karthik sundaram
  { $unwind: '$studentInfo' },
  { $group: {
                                                                                          total_problems_solved: 2,
User_Name: 'mani vel'
        user_id: '$studentInfo._id',
        User_Name: '$studentInfo.name'
      total_problems_solved: { $sum: 1 }
  { $project: {
      User_Name: '$_id.User_Name',
      total_problems_solved: 1
                                                                                         User_Name: 'senthil raja'
 { $sort: { total_problems_solved: -1 } }
                                                                                     Zen_Class>
```

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

Answer:

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

Answer:

```
db.users.aggregate([
       from: 'attendance',
       localField: '_id',
       foreignField: 'user_id',
   { $lookup: {
       from: 'tasks',
       localField: '_id',
       foreignField: 'user_id',
       as: 'taskInfo'
   { $unwind: '$attendanceInfo' },
   { $unwind: '$taskInfo' },
   { Smatch:
     € Sand: [
        { 'attendanceInfo.date': { $gte: new Date("2020-10-15"), $lte: new Date("2020-10-31") } },
        { 'attendanceInfo.status': 'absent' },
         { 'taskInfo.task_status': 'not submitted' }
   },
{ $group: {
      _id: null,
      user_count: ( $sum: 1 )
   { $project: {
      task_status: "Not Submitted",
      attendance_status: "Absent",
   task_status: 'Not Submitted',
Zen_Class>
```