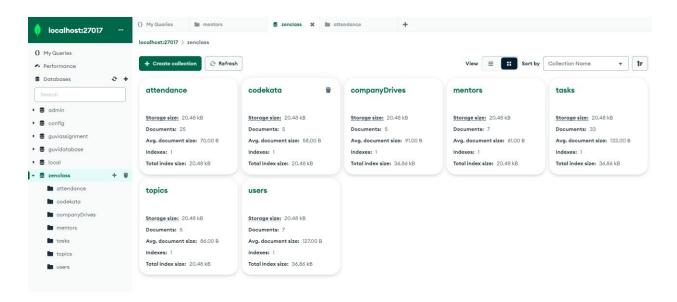
### MongoDB Task



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

Answer: db.topics.aggregate([{ \$lookup: { from: 'tasks', localField: 'topiclD', foreignField: 'topiclD', as: 'data' } }, {\$unwind: '\$data'}, {\$match: {'topicDate': {\$gte: new Date('2020-10-01'), \$lt: new Date('2020-11-01')}}}, {\$group: {\_id:{topicID: '\$topicID', topicName: '\$topicName', topicDate: '\$topicDate', taskName: '\$data.taskName', taskDate: '\$data.taskDate'}}}, { \$project: { \_id: 0, 'topicID': '\$\_id.topicID', 'topicName': '\$\_id.topicName', 'topicDate': {\$dateToString: {format: "%Y-%m-%d", date: "\$\_id.topicDate" }}, 'taskName': "\$\_id.taskName", 'taskDate': {\$dateToString: {format: "%Y-%m-%d", date: "\$\_id.taskDate" }} } }})}

```
zenclass> db.topics.aggregate([{ $lookup: { from: 'tasks', localField: 'topicID', foreignField: 'topicID', as: 'data' } }, {$unwind: '$data', {$match', {}} } pricDate': {$yte: new Date('2020-10-81'), $$tr. new Date('2020-11-81')}}}, {$propic. { id: 0, 'topicID', 'topicName', 'topicName', 'topicDate: '$copicDate' '$. 'topicName', 'taskName', 'taskName', 'taskName', 'taskName', 'taskName', 'taskName', 'taskName', 'taskName' '$copicDate' '$copicDate' '$copicDate' '$copicDate' '$copicDate' '$copicDate', 'topicName', 'taskName', 'taskName',
```

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

**Answer:** db.companyDrives.aggregate([{\$match:{driveDate: {\$gte: new Date('2020-10-15'), \$lt: new Date('2020-10-31')}}}, {\$project:{\_id: 0, companyName: 1, driveDate: {\$dateToString: {format: '%Y-%m-%d', date: '\$driveDate'}}}}])

```
zenclass> db.companyDrives.aggregate([{$match:{driveDate: {$gte: new Date('2020-10-15'), $lt: new Date('2020-10-31')}}}, {$project:{_id: 0, companyName: 1, driveDate: {$dateToString: {format: '%/~%m~%d', date: '$driveDate'}}}]) [ { companyName: 'TCS Fresher Walkin', driveDate: '2020-10-27' } ] zenclass>
```

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

**Answer:** db.companyDrives.aggregate([{\$lookup: {from: 'users', localField: 'drivelD', foreignField: 'drivelD', as: 'student'}}, {\$unwind: '\$student'}, {\$project: {\_id: 0, companyName: 1, driveDate: {\$dateToString: {format: "%Y-%m-%d", date: "\$driveDate" }}, 'student.studentName': 1, 'student.studentEmail': 1}}])

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

Answer: db.codekata.aggregate([{\$lookup: {from: 'users', localField: 'userID', foreignField: 'userID', as: 'user'}}, {\$unwind: '\$user'}, {\$group: {\_id:{ studentName: '\$user.studentName', solvedProblemCount: '\$solvedProblemCount'}}}, {\$project: {\_id:0, 'solvedcount': '\$\_id.solvedProblemCount', 'userName': '\$\_id.studentName', 'userID': '\$\_id.userID'}}])

```
zenclass> db.codekata.aggregate([{$lookup: {from: 'users', localField: 'userID', foreignField: 'userID', as: 'user'}}, {$unwind: '$user'}, {$group: {_id:{ s tudentName: 'suser.studentName', solvedProblemCount: '$solvedProblemCount'}}}, {$project: {_id:0, 'solvedcount': '$_id.solvedProblemCount', 'userName': '$_id.solvedProblemCount', 'userName': '$_id.solvedProblemCount', 'userName': '$_id.solvedCount': '$_id.solvedProblemCount', 'userName': '$_id.solvedCount': '$_id.solvedProblemCount', 'userName': '$_id.solvedCount': '$_id.solvedProblemCount', 'userName': '$_id.solvedCount': '$_id.solvedCount': '$_id.solvedProblemCount', 'userName': '$_id.solvedCount': '$_id.solvedCount'
```

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

**Answer:** db.mentors.find({menteesCount:{\$gte:15}}).sort({menteesCount: -1})

## 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([{$lookup: {from: 'attendance', localField: 'userlD', foreignField: 'userlD', as: 'attendanceInfo'}}, { $lookup: {from: 'tasks',localField: 'userlD', foreignField: 'userlD', as: 'taskInfo'}}, { $unwind: '$attendanceInfo'}, {$unwind: '$taskInfo'}, {$match: {$and:[{'attendanceInfo.date': {$gte: new Date("2020-10-15"), $lte: new Date("2020-10-31")}}, {'taskInfo.taskDate': {$gte: new Date("2020-10-15"), $lte: new Date("2020-10-31")}}, {'attendanceInfo.status': 'not attended'}, {'taskInfo.taskStatus': 'not completed'}]}}, {$group: {_id: null, user_count: {$sum: 1}}}, {$project: {_id: 0, taskStatus: "not completed", status: "not attended", user_count: 1}}]);
```

```
renclass> db.users.aggregate([$lookup: {from: 'attendance', localField: 'userID', foreignField: 'userID', as: 'attendanceInfo'}}, { $lookup: {from: 'tasks', localField: 'userID', as: 'taskInfo'}}, { $lookup: {from: 'tasks', localField: 'userID', as: 'attendanceInfo'}}, { $lookup: {from: 'tasks', localField: 'userID', as: 'taskInfo'}}, { $lookup: {from: 'tasks', localField: 'userID', as: 'attendanceInfo'}}, { $lookup: {from: 'tasks', localField: 'userID', as: 'taskInfo', localField: 'userID', as: 'attendanceInfo'}}, { $lookup: {from: 'tasks', localField: 'userID', as: 'taskInfo', localField: '
```