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

```
db.getCollection('Topics').aggregate(
    $lookup: {
     from: 'tasks',
     localField: 'topic',
     foreignField: 'task',
     as: 'topicdata'
   }
  },
    $match: { topicDate: { $regex: '2020-10' } }
  },
    $project: {
     _id: 0,
     topic: 1,
     topicDate: 1,
     'topic data.userId': 1,
     'topic data.submitted': 1,
     'topic data.task': 1
 ],
);
```

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

```
db.getCollection('companydrives').find({
   driveDate: {
    $gte: '2020-10-01',
    $lte: '2020-10-31'
   }
});
```

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

```
db.getCollection('companydrives').aggregate(

{
    $lookup: {
        from: 'users',
        localField: 'userld',
        foreignField: 'userld',
        as: 'studentInfo'
    }
},
{
    $project: {
        _id: 0,
        'studentInfo.userName': 1,
        company: 1,
        driveDate: 1,
        'studentInfo.userEmail': 1,
        'studentInfo.userId': 1
    }
},
];
```

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

```
db.getCollection('codekata').aggregate(
   $lookup: {
     from: 'users',
     localField: 'userId',
    foreignField: 'userld',
     as: 'userDetails'
  { $unwind: '$userDetails' },
   $group: {
     _id: {
      userld: '$userld',
      userName: '$userDetails.userName'
    problems_solved: { $sum: 1 }
   $project: {
     _id: 0,
     problems_solved: 1,
     userld: '$_id.userld',
     userName: '$_id.userName'
);
```

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

db.getCollection('mentors').find({ menteeCount: { \$gt: 15 }})

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

```
db.getCollection('attendance').aggregate(
    $lookup: {
     from: 'topics',
     localField: 'topicId',
     foreignField: 'topicld',
     as: 'absent'
    }},
    $lookup: {
     from: 'tasks',
     localField: 'userld',
     foreignField: 'userld',
     as: 'task-notSubmitted'
  { $unwind: '$task-notSubmitted' },
   { $unwind: '$absent' },
    $match: {
     attended: false,
     'absent.topicDate': {
      $gte: '2020-10-15',
       $Ite: '2020-10-31'
    $match: {
     'task-notSubmitted.dueDate': {
      $gte: '2020-10-15',
      $Ite: '2020-10-31'
     'task-notSubmitted.submitted': false
  { $project: { _id: 0, 'absent._id': 0 } },
  { $project: { 'task-notSubmitted._id': 0 } }
);
```