```
## users
db.users.find();
 id: ObjectId('67348edc5bab9a8867c0c01c'),
 Email: 'johnjoe@example.com',
 codekata problem solved: 50,
     status: 'Present'
     status: 'Absent'
## codekata
db.codekata.find();
 id: ObjectId('673594ad442686e720821982'),
 user_id: ObjectId('67359402442686e720821981'),
 problems solved: 20
## topics
db.topics.find();
 id: ObjectId('673594ad442686e720821982'),
 title: 'Introduction to MongoDB',
 date: '2023-10-15'
## tasks
```

```
db.Tasks.find();
 id: ObjectId('6735a9ea442686e720821986'),
 title: 'MongoDB Basics',
 submitted by: [
   ObjectId('673594ad442686e720821982')
## company drives
db.company drives.find();
 id: ObjectId('6735aa69442686e720821987'),
 company name: 'Tech Corp',
 appeared students: [
   ObjectId('6735a9ea442686e720821986')
## mentors
db.mentors.find();
 id: ObjectId('6735ab73442686e720821988'),
 mentees: [
   ObjectId('6735a9ea442686e720821986'),
   ObjectId('6735aa69442686e720821987')
```

```
## Queries:
## Find all topics and tasks taught in October
db.topics.find({ "date": { $gte: ISODate("2023-10-01"), $1te:
db.tasks.find({ "date": { $gte: ISODate("2023-10-01"), $1te:
ISODate("2023-10-31") } });
# Result:
 id: ObjectId('6735e95f442686e72082198d'),
 title: 'JavaScript Practice',
 date: 2023-10-07T00:00:00.000Z
 id: ObjectId('6735e95f442686e72082198e'),
 date: 2023-10-15T00:00:00.000Z
 id: ObjectId('6735e95f442686e72082198f'),
 title: 'MongoDB Query Task',
 date: 2023-10-25T00:00:00.000Z
## Find all the company drives which appeared between 15 oct-2020 and
31-oct-2020
db.company_drives.find({ "date": { $gte: ISODate("2020-10-15"), $lte:
ISODate("2020-10-31") } });
# Result:
 id: ObjectId('6735ea59442686e720821991'),
 company name: 'TechCorp',
 date: 2020-10-16T00:00:00.000Z,
 location: 'New York'
```

```
id: ObjectId('6735ea59442686e720821992'),
 company_name: 'InnoSoft',
 id: ObjectId('6735ea59442686e720821993'),
 company name: 'DataWorks',
 date: 2020-10-25T00:00:00.000Z,
 location: 'Chicago'
 id: ObjectId('6735ea59442686e720821994'),
 company name: 'NetSolutions',
 date: 2020-10-30T00:00:00.000Z,
 location: 'Los Angeles'
## Find all the company drives and students who are appeared for the
placement.
db.company drives.aggregate([
 { $lookup: {
     from: "users",
     localField: "appeared students",
     foreignField: " id",
     as: "students"
]);
# Result:
 _id: ObjectId('6735aa69442686e720821987'),
 company name: 'Tech Corp',
 appeared students: [
```

```
ObjectId('6735a9ea442686e720821986')
id: ObjectId('6735ea59442686e720821991'),
company_name: 'TechCorp',
date: 2020-10-16T00:00:00.000Z,
students: []
id: ObjectId('6735ea59442686e720821992'),
company name: 'InnoSoft',
date: 2020-10-20T00:00:00.000Z,
students: []
id: ObjectId('6735ea59442686e720821993'),
company_name: 'DataWorks',
location: 'Chicago',
students: []
id: ObjectId('6735ea59442686e720821994'),
company_name: 'NetSolutions',
location: 'Los Angeles',
id: ObjectId('6735ea59442686e720821995'),
```

```
company name: 'FutureTech',
date: 2020-11-05T00:00:00.000Z,
students: []
id: ObjectId('6735ebdb442686e720821996'),
company name: 'TechCorp',
date: 2020-10-16T00:00:00.000Z,
appeared students: [
 ObjectId('5f8d0d55b54764421b7156b1'),
 ObjectId('5f8d0d55b54764421b7156b2')
students: [
   id: ObjectId('5f8d0d55b54764421b7156b2'),
   id: ObjectId('5f8d0d55b54764421b7156b1'),
   name: 'Alice',
   status: 'student'
id: ObjectId('6735ebdb442686e720821997'),
company name: 'InnoSoft',
appeared students: [
 ObjectId('5f8d0d55b54764421b7156b2'),
 ObjectId('5f8d0d55b54764421b7156b3')
students: [
```

```
id: ObjectId('5f8d0d55b54764421b7156b3'),
     status: 'student'
     id: ObjectId('5f8d0d55b54764421b7156b2'),
     status: 'student'
## Find the number of problems solved by the user in codekata
db.users.find({}, { name: 1, codekata problems solved: 1 });
# Result:
 id: ObjectId('5f8d0d55b54764421b7156b1'),
 name: 'Alice'
 id: ObjectId('5f8d0d55b54764421b7156b2'),
 name: 'Bob'
 id: ObjectId('5f8d0d55b54764421b7156b3'),
 name: 'Charlie'
## Find mentors with more than 15 mentees
db.mentors.find({ "mentee_count": { $gt: 15 } });
# Result:
 _id: ObjectId('6735ab73442686e720821988'),
```

```
mentees: [
   ObjectId('6735a9ea442686e720821986'),
   ObjectId('6735aa69442686e720821987')
## Find users absent and with tasks not submitted between 15 Oct 2020 and
31 Oct 2020
db.attendance.aggregate([
 { $match: { "date": { $gte: ISODate("2020-10-15"), $1te:
ISODate("2020-10-31") }, "status": "Absent" } },
 { $lookup: {
     from: "tasks",
     localField: "user id",
     foreignField: "submitted by",
     as: "tasks"
 { $match: { "tasks.submitted": false } }
]);
# Result:
 id: ObjectId('5f8d0d55b54764421b7156a1'),
 user id: ObjectId('5f8d0d55b54764421b7156b1'),
 date: 2020-10-16T00:00:00.000Z,
 status: 'Absent',
 tasks: [
     id: ObjectId('6f8d0d55b54764421b7156c1'),
     submitted by: ObjectId('5f8d0d55b54764421b7156b1'),
     submitted: false
  id: ObjectId('5f8d0d55b54764421b7156a2'),
```