

# MongoDB Task-2

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## {} Mv Queries

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

```
topic_name: 'Introduction to Html and CSS',
topic_taught_date: '2020-10-01',
task_name: 'Create Login page',
task_taught_date: '2020-10-02'
```

```
topic_name: 'React Basics Day-1',
topic_taught_date: '2020-10-15',
task_name: 'React price card',
task_taught_date: '2020-10-16'
```

```
MongoDB Compass - Guvi DB Task/zenclass
Connect Edit View Help

Guvi DB Task ...
zenclass x +
Guvi DB Task > zenclass

{} My Queries
>_MONGOSH

zenclass> db.company_drives.aggregate([
  {
    $match: {
      drive_date: {
        $gte: new Date("2020-10-15"),
        $lte: new Date("2020-10-31"),
      },
    },
  },
  {
    $project: {
      _id: 0,
      drive_name: 1,
      drive_date: {
        $dateToString: { format: "%Y-%m-%d", date: "$drive_date" },
      },
    },
  },
  { $sort: { drive_date: 1 } },
]);
```

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

```
< {
  drive_name: 'Google Drive',
  drive_date: '2020-10-20'
}
{
  drive_name: 'Facebook Drive',
  drive_date: '2020-10-25'
}
{
  drive_name: 'Amazon Drive',
  drive_date: '2020-10-30'
}
```

```
MongoDB Compass - Guvi DB Task/zenclass
Connect Edit View Help

Guvi DB Task ...
zenclass x +
Guvi DB Task > zenclass

{} My Queries
>_MONGOSH

zenclass> 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 } },
]);
```

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

```
student_name: 'Steve',
student_email: 'Steve@example.com',
drive_status: 'attended'
}
{
drive_name: 'Facebook Drive',
drive_date: '2020-10-25',
student_name: 'Tony',
student_email: 'Tony@example.com',
drive_status: 'attended'
}
{
drive_name: 'Amazon Drive',
drive_date: '2020-10-30',
student_name: 'Natasha',
```

```
MongoDB Compass - Guvi DB Task/zenclass
Connect Edit View Help

Guvi DB Task ...
zenclass x +
Guvi DB Task > zenclass

{} My Queries
>_MONGOOSH

zenclass> 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 } },
]);
```

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

```
User_Name: 'Bruce'
}
{
  total_problems_solved: 1,
  User_Name: 'Tony'
}
{
  total_problems_solved: 1,
  User_Name: 'Steve'
}
{
  total_problems_solved: 1,
```

```
MongoDB Compass - Guvi DB Task/zenclass
Connect Edit View Help

Guvi DB Task ...
zenclass x +
Guvi DB Task > zenclass

{} My Queries
>_MONGOSH

zenclass> db.mentors.aggregate([
  { $match: { mentees_count: { $gt: 15 } } },
  {
    $project: {
      _id: 0,
      mentor_name: 1,
      mentees_count: 1,
    },
  },
  { $sort: { mentees_count: -1 } },
]);
```

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

```
< {
  mentor_name: 'Dr. Taylor',
  mentees_count: 25
}
{
  mentor_name: 'Dr. Smith',
  mentees_count: 20
}
```

```
MongoDB Compass - Guvi DB Task/zenclass
Connect Edit View Help

Guvi DB Task ...
zenclass x +
Guvi DB Task > zenclass

{} My Queries
>_MONGOOSH

zenclass> db.users.aggregate([
  {
    $lookup: {
      from: "attendance",
      localField: "_id",
      foreignField: "user_id",
      as: "attendanceInfo",
    },
  },
  {
    $lookup: {
      from: "tasks",
      localField: "_id",
      foreignField: "user_id",
      as: "taskInfo",
    },
  },
  { $unwind: "$attendanceInfo" },
  { $unwind: "$taskInfo" },
  {
    $match: {
      $and: [
        {
          "attendanceInfo.date": {
            $gte: new Date("2020-10-15"),
            $lte: new Date("2020-10-31"),
          },
        },
        { "attendanceInfo.status": "absent" },
        { "taskInfo.task_status": "not submitted" },
      ],
    },
  },
],)
```

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

```
< {
  user_count: 2,
  task_status: 'Not Submitted',
  attendance_status: 'Absent'
}
```