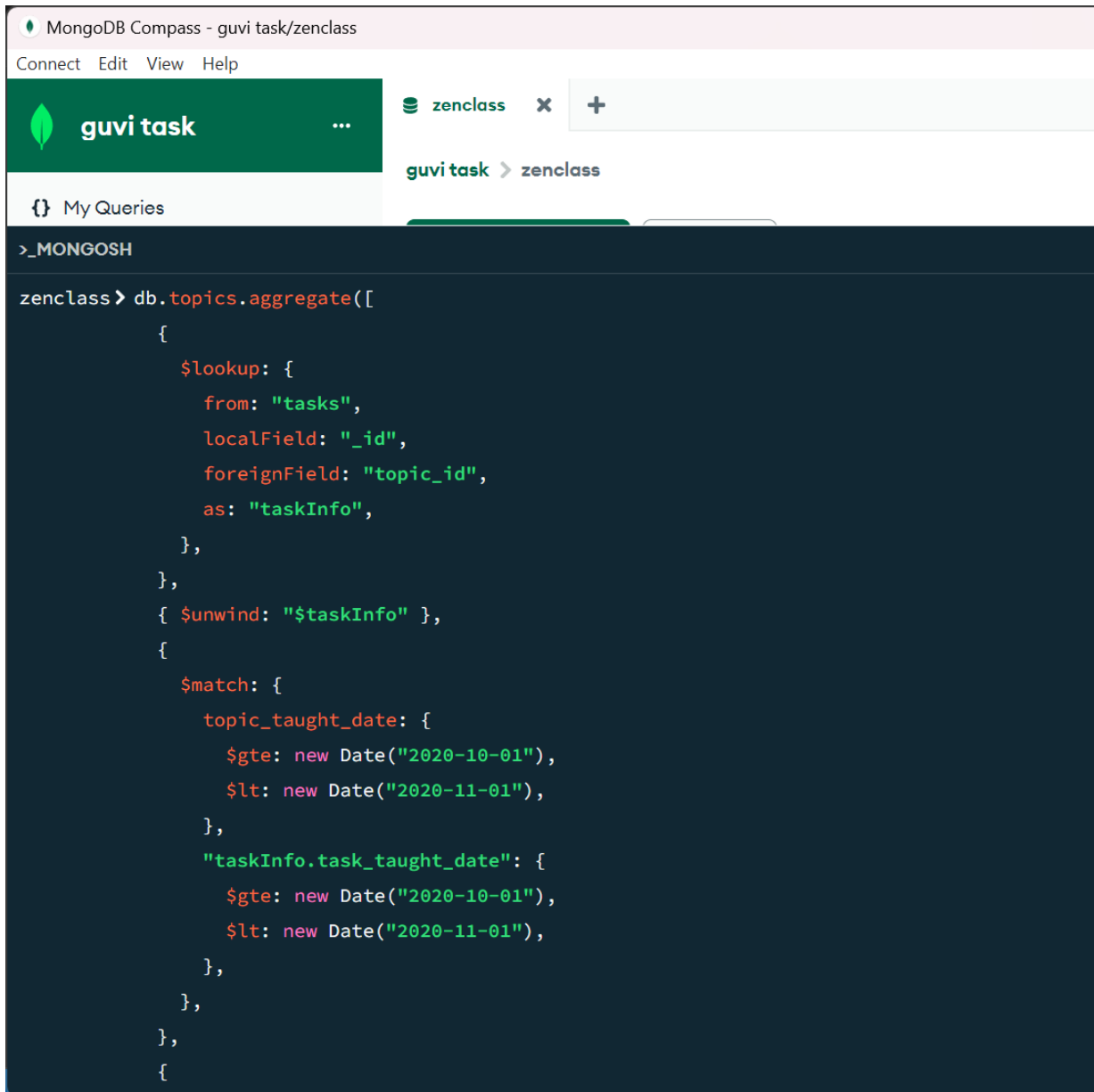


# MongoDB Task-2

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



The screenshot shows the MongoDB Compass application. The top bar indicates the connection is to 'guvi task/zenclass'. Below the top bar, there's a sidebar with 'guvi task' and a 'My Queries' section. The main area shows the 'zenclass' database selected. In the MONGOSH terminal, the following query is entered:

```
zenclass> 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"),
      },
    },
  },
],
)
```

```
]);
< {
  topic_name: 'Introduction to JavaScript',
  topic_taught_date: '2020-10-01',
  task_name: 'Create Login page',
  task_taught_date: '2020-10-02'
}
{
  topic_name: 'Advance React',
  topic_taught_date: '2020-10-15',
  task_name: 'React Shopping cart',
  task_taught_date: '2020-10-16'
}
```

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

>\_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 } },
]);
```

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

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

>\_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",
    },
  },
])
```

```
],
< {
  drive_name: 'Zoho Drive',
  drive_date: '2020-10-20',
  student_name: 'ALice',
  student_email: 'Steve@example.com',
  drive_status: 'attended'
}
{
  drive_name: 'Meta Drive',
  drive_date: '2020-10-25',
  student_name: 'Bob',
  student_email: 'Bob@example.com',
  drive_status: 'attended'
}
{
  drive_name: 'Amazon Drive',
  drive_date: '2020-10-30',
  student_name: 'John',
  student_email: 'John@example.com',
  drive_status: 'attended'
}
```

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

>\_MONGOSH

```
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,
    },
  },
],
```

```
<[
  {
    total_problems_solved: 1,
    User_Name: 'David'
  },
  {
    total_problems_solved: 1,
    User_Name: 'John'
  },
  {
    total_problems_solved: 1,
    User_Name: 'Bob'
  },
  {
    total_problems_solved: 1,
    User_Name: 'ALice'
  }
]
```

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

>\_MONGOSH

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

```
< {
  mentor_name: 'Dr. Joe',
  mentees_count: 25
}
{
  mentor_name: 'Dr. Tony',
  mentees_count: 20
}
```

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

>\_MONGOSH

```
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: [
```

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