GUVI DAY 36 (MONGODB DAY 2)

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MongoDB Day-2 Task

Design database for Zen class programme

users codekata attendance topics tasks company_drives mentors

- 1. Find all the topics and tasks which are thought in the month of October
- 2. Find all the company drives which appeared between 15 oct-2020 and 31-oct-2020
- 3. Find all the company drives and students who are appeared for the placement.
- 4. Find the number of problems solved by the user in codekata
- 5. Find all the mentors with who has the mentee's count more than 15
- 6. Find the number of users who are absent and task is not submitted between 15 oct-2020 and 31-oct-2020

SCREENSHOTS:

CREATING COLLECTIONS

```
> db.createCollection("users")
{ "ok" : 1 }
> db.createCollection("codekata")
{ "ok" : 1 }
> db.createCollection("attendance")
{ "ok" : 1 }
> db.createCollection("topics")
{ "ok" : 1 }
> db.createCollection("tasks")
{ "ok" : 1 }
> db.createCollection("company_drives")
{ "ok" : 1 }
> db.createCollection("mentors")
{ "ok" : 1 }
> db.createCollection("mentors")
```

INSERTING ALL DATA TO COLLECTIONS

ATTENDANCE

CODEKATA

COMPANY DRIVES

MENTORS

TASKS

TOPICS

USERS

QUERRY SCREENSHOTS:

2.

3.

```
> db.company_drives.find({},{
... "_id":0,
... "company_name":1,
... "student_id_list":1
... })
{ "company_name" : "company1", "student_id_list" : [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 ] }
{ "company_name" : "company2", "student_id_list" : [ 17, 18, 19, 20 ] }
{ "company_name" : "company3", "student_id_list" : [ 21, 22, 23, 24 ] }
{ "company_name" : "company4", "student_id_list" : [ 25, 26, 27, 29 ] }
{ "company_name" : "company5", "student_id_list" : [ 30, 31, 33, 34 ] }
>
```

4.

```
db.users.aggregate({
    ... $project: {
    ... _id: 0,
    ... user_name: 1,
    ... no_of_prob_solved: {
    ... $size: "$codekata_solved"
    ... }
    ... }
    ... }
    [ "user_name" : "user1", "no_of_prob_solved" : 3 }
    [ "user_name" : "user2", "no_of_prob_solved" : 2 }
    [ "user_name" : "user3", "no_of_prob_solved" : 2 }
    [ "user_name" : "user4", "no_of_prob_solved" : 2 }
    [ "user_name" : "user5", "no_of_prob_solved" : 2 }
}
```

5.

```
> db.mentors.find({
    ... $where: "this.student_id_list.length > 15"
    ... },
    ... {
        ... _id: 0,
        ... mentor_name: 1
        ... })
{ "mentor_name" : "mentor1" }
> _
```

6.

```
db.attendance.aggregate({ $match: { "date": { $gte: ISODate("2020-10-15"), $lt: ISODate("2020-10-31") } },{ $project: { _id: 0, date: 1, no_of_absent: { $size: "$absent"} } }) { "date": ISODate("2020-10-15T00:00:002"), "no_of_absent": 2 } { "date": ISODate("2020-10-15T00:00:002"), "no_of_absent": 1 } } * db.tasks.aggregate({ $match: { "date": { $gte: ISODate("2020-10-15T00:00:002"), "no_of_absent": 1 } } * db.tasks.aggregate({ $match: { "date": { $gte: ISODate("2020-10-15T00:00:002"), "no_of_not_submitted": 2 } { "task_name": "create-react-app", "date": ISODate("2020-10-15T00:00:002"), "no_of_not_submitted": 2 } { "task_name": "HTML forms, "date": ISODate("2020-10-15T00:00:002"), "no_of_not_submitted": 2 } { "task_name": "API', "date": ISODate("2020-10-21T00:00:002"), "no_of_not_submitted": 2 } { "task_name": "API', "date": ISODate("2020-10-21T00:00:002"), "no_of_not_submitted": 2 } { "task_name": "CSS*, "date": ISODate("2020-10-21T00:00:002"), "no_of_not_submitted": 2 } { "task_name": "CSS*, "date": ISODate("2020-10-21T00:00:002"), "no_of_not_submitted": 2 }
```