

```
> use ZEN_class;
switched to db ZEN_class
> db.student.find().pretty();
{
  "_id" : ObjectId("613ce847dcb068f03bb962d5"),
  "user_id" : "1",
  "users_name" : "Giacomo",
  "users_codekata_solved" : 54,
  "users_attendance" : "Present",
  "users_topics" : [
    "python",
    "c++",
    "java"
  ],
  "users_tasks" : [
    "playing",
    "football",
    "singing"
  ],
  "company_drives" : "Deloitte",
  "users_mentors" : "Matthew",
  "users_dates" : ISODate("2020-10-09T00:00:00Z")
}
{
  "_id" : ObjectId("613ce847dcb068f03bb962d6"),
  "user_id" : "2",
  "users_name" : "Kessie",
  "users_codekata_solved" : 24,
  "users_attendance" : "Present",
  "users_topics" : [
    "python",
    "node",
    "react",
    "java"
  ],
  "users_tasks" : [
    "writing",
    "basketball",
    "singing"
  ],
  "company_drives" : "Helwett Packard's",
}
```



28°C AQI 104



ENG

00:23  
12-09-2021



4

```

    ],
    "company_drives" : "Helwett Packard's",
    "users_mentors" : "Adena",
    "users_dates" : ISODate("2020-10-18T00:00:00Z")
  }
}

  "_id" : ObjectId("613ce847dcb068f03bb962d7"),
  "user_id" : "3",
  "users_name" : "Uriel",
  "users_codekata_solved" : 38,
  "users_attendance" : "Absent",
  "users_topics" : [
    "swift",
    "ruby",
    "react",
    "rust"
  ],
  "users_tasks" : [
    "basketball",
    "playing"
  ],
  "company_drives" : "PwC",
  "users_mentors" : "Graiden",
  "users_dates" : ISODate("2020-11-19T00:00:00Z")
}
{
  "_id" : ObjectId("613ce847dcb068f03bb962d8"),
  "user_id" : "4",
  "users_name" : "Joy",
  "users_codekata_solved" : 61,
  "users_attendance" : "Present",
  "users_topics" : [
    "c++",
    "node",
    "cpp"
  ],
  "users_tasks" : [
    "writing"
  ],
  "company_drives" : "CHUBB's Corporation",
  "users_mentors" : "Gannon",

```



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ENG

00:25

12-09-2021



4

```

"company_drives" : "CHUBB's Corporation",
"users_mentors" : "Gannon",
"users_dates" : ISODate("2020-10-30T00:00:00Z")
}
{
  "_id" : ObjectId("613ce847dcb068f03bb962d9"),
  "user_id" : "5",
  "users_name" : "Hedley",
  "users_codekata_solved" : 94,
  "users_attendance" : "Present",
  "users_topics" : [
    "ruby",
    "rust",
    "python"
  ],
  "users_tasks" : [
    "singing",
    "playing"
  ],
  "company_drives" : "Infosys",
  "users_mentors" : "Jackson",
  "users_dates" : ISODate("2021-10-20T00:00:00Z")
}
{
  "_id" : ObjectId("613ce847dcb068f03bb962da"),
  "user_id" : "6",
  "users_name" : "Perry",
  "users_codekata_solved" : 58,
  "users_attendance" : "Absent",
  "users_topics" : [
    "c++",
    "cpp",
    "node",
    "python",
    "react"
  ],
  "users_tasks" : [
    "basketball"
  ],
  "company_drives" : "Capegimini",
  "users_mentors" : "Hayes",

```



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ENG

00:25

12-09-2021



```

    ],
    "company_drives" : "Capegimini",
    "users_mentors" : "Hayes",
    "users_dates" : ISODate("2020-10-31T00:00:00Z")
  }
}

  "_id" : ObjectId("613ce847dcb068f03bb962db"),
  "user_id" : "7",
  "users_name" : "Quynn",
  "users_codekata_solved" : 59,
  "users_attendance" : "Present",
  "users_topics" : [
    "rust",
    "swift",
    "ruby"
  ],
  "users_tasks" : [
    "listening",
    "reading"
  ],
  "company_drives" : "Google",
  "users_mentors" : "Galvin",
  "users_dates" : ISODate("2021-11-17T00:00:00Z")
}
}

  "_id" : ObjectId("613ce847dcb068f03bb962dc"),
  "user_id" : "8",
  "users_name" : "Grady",
  "users_codekata_solved" : 87,
  "users_attendance" : "Absent",
  "users_topics" : [
    "node",
    "python",
    "react"
  ],
  "users_tasks" : [
    "singing",
    "reading",
    "listening"
  ],
  "company_drives" : "Microsoft",

```



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ENG

00:26  
12-09-2021


4

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    "company_drives" : "Microsoft",
    "users_mentors" : "Regina",
    "users_dates" : ISODate("2020-10-19T00:00:00Z")
}
> db.student.aggregate([{$match:{"users_dates":{$gte:ISODate("2020-10-01"), $lt:ISODate("2020-10-31") }}}},
...
...   {
...     $project:
...     {
...       "_id":0,
...       "users_topics":1,
...       "users_tasks":1
...     }
...   }
... ]);
{ "users_topics" : [ "python", "c++", "java" ], "users_tasks" : [ "playing", "football", "singing" ] }
{ "users_topics" : [ "python", "node", "react", "java" ], "users_tasks" : [ "writing", "basketball", "singing" ] }
{ "users_topics" : [ "c++", "node", "cpp" ], "users_tasks" : [ "writing" ] }
{ "users_topics" : [ "node", "python", "react" ], "users_tasks" : [ "singing", "reading", "listening" ] }
> db.student.aggregate([{$match:{"users_dates":{$gte:ISODate("2021-10-15"), $lt:ISODate("2021-10-31") }}}},
...
...   {
...     $project:
...     {
...       "_id":0,
...       "company_drives":1
...     }
...   }
... ]);
{ "company_drives" : "Infosys" }
> db.student.aggregate([{$match:{"users_attendance":{$eq:"Present"}}}],
...
...   {
...     $project:
...     {
...       "_id":0,
...       "users":1,
...       "company_drives":1
...     }
...   }
... ]);

```





ct Select Command Prompt - mongo

```
{ "company_drives" : "Deloitte" }
{ "company_drives" : "Helwett Packard's" }
{ "company_drives" : "CHUBB's Corporation" }
{ "company_drives" : "Infosys" }
{ "company_drives" : "Google" }
> db.student.aggregate([{$match:{"users_attendance":{"$eq:"Present"}}},
...
...   {
...     $project:
...     {
...       "_id":0,
...       "users":1,
...       "company_drives":1,
...       "users_name":1
...     }
...   }
... ]);
{ "users_name" : "Giacomo", "company_drives" : "Deloitte" }
{ "users_name" : "Kessie", "company_drives" : "Helwett Packard's" }
{ "users_name" : "Joy", "company_drives" : "CHUBB's Corporation" }
{ "users_name" : "Hedley", "company_drives" : "Infosys" }
{ "users_name" : "Quynn", "company_drives" : "Google" }
> db.student.aggregate([{$group: { _id: null, TotalSum: { $sum: "users_codekata_solved" } } }]);
{ "_id" : null, "TotalSum" : 0 }
> db.student.aggregate([{$group: { _id: null, TotalSum: { $sum: "$users_codekata_solved" } } }]);
{ "_id" : null, "TotalSum" : 475 }
> show collections;
codekata
mentors
student
users
> db.mentors.find().pretty();
{
  "_id" : ObjectId("613ce9ecdcb068f03bb962dd"),
  "mentee_count" : 28,
  "mentor_name" : "Matthew"
}
{
  "_id" : ObjectId("613ce9ecdcb068f03bb962de"),
  "mentee_count" : 28,
  "mentor_name" : "Adena"
```



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ENG

00:26  
12-09-2021



```
> db.mentors.find().pretty();
```

```
{
  "_id" : ObjectId("613ce9ecdcb068f03bb962dd"),
  "mentee_count" : 28,
  "mentor_name" : "Matthew"
}
{
  "_id" : ObjectId("613ce9ecdcb068f03bb962de"),
  "mentee_count" : 28,
  "mentor_name" : "Adena"
}
{
  "_id" : ObjectId("613ce9ecdcb068f03bb962df"),
  "mentee_count" : 93,
  "mentor_name" : "Graiden"
}
{
  "_id" : ObjectId("613ce9ecdcb068f03bb962e0"),
  "mentee_count" : 88,
  "mentor_name" : "Gannon"
}
{
  "_id" : ObjectId("613ce9ecdcb068f03bb962e1"),
  "mentee_count" : 30,
  "mentor_name" : "Jackson"
}
{
  "_id" : ObjectId("613ce9ecdcb068f03bb962e2"),
  "mentee_count" : 11,
  "mentor_name" : "Hayes"
}
{
  "_id" : ObjectId("613ce9ecdcb068f03bb962e3"),
  "mentee_count" : 64,
  "mentor_name" : "Galvin"
}
{
  "_id" : ObjectId("613ce9ecdcb068f03bb962e4"),
  "mentee_count" : 100,
  "mentor_name" : "Regina"
}
```



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ENG

00:26  
12-09-2021



```

}
> db.mentors.aggregate([{$match:{"mentee_count":{$gt:15}}},
...   {
...     $lookup:
...     {
...       from: "student",
...       localField: "mentor_name",
...       foreignField: "users_mentors",
...       as: "mentorOfMentees"
...     }
...   },
...   {
...     $replaceRoot: { newRoot: { $mergeObjects: [ { $arrayElemAt: [ "$mentorOfMentees", 0 ] }, "$$ROOT" ] } }
...   },
...   {$match:{"mentee_count":{$gt:15}}},
...   {
...     $group:
...     {
...       _id: "$users_mentors"
...     }
...   }
... ]);
{ "_id" : "Graiden" }
{ "_id" : "Galvin" }
{ "_id" : "Regina" }
{ "_id" : "Gannon" }
{ "_id" : "Adena" }
{ "_id" : "Matthew" }
{ "_id" : "Jackson" }
> db.student.aggregate([{$match:{"users_attendance":{$eq:"Absent"}}},
...   { $match: {
...     $or: [$not:[
...
...       { Dates: { $lte: ISODate("2020-10-31") } },
...       { Dates: { $gte: ISODate("2020-10-01") } }
...     ]
...   } }},
...   {
...     $count:

```



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ENG

00:26  
12-09-2021


4



```
> db.student.aggregate([{$match:{"users_attendance":{"$eq:"Absent"}}},
...   { $match: {
...     $or: [
...       { Dates: { $gte: ISODate("2020-10-31") } },
...       { Dates: { $lte: ISODate("2020-10-01") } }
...     ]
...   } },
...   {
...     $project:
...     {
...       "_id":0,
...       "users_name":1
...     }
...   }
... ])
>
> db.student.aggregate([{$match:{"users_attendance":{"$eq:"Absent"}}},
...   { $match: {
...     $or: [
...       { Dates: { $gte: ISODate("2020-10-31") } },
...       { Dates: { $lte: ISODate("2020-10-01") } }
...     ]
...   } },
...   {
...     $project:
...     {
...       "_id":0,
...       "user_id":1
...     }
...   }
... ]);
>
```



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ENG

00:27  
12-09-2021

