MongoDB Task 02

Collections:

1. Creating a collection of students,

```
db.createCollection ( 'students')
" id": "6679a032d506c1c5fbd43e4d",
  "student_id": 1,
  "drive_id": 1,
  "course_name": "Full Stack Web Development",
  "provider": "Guvi",
  "duration": "6 months",
  "description": "Learn full stack web development from basics to advanced topics.",
  "url": "https://guvi.in/full-stack-web-development",
  "name": "John Doe",
  "email": "johndoe@example.com",
  "phone": "9876543210"
 },
  "_id": "6679a032d506c1c5fbd43e4e",
  "student_id": 2,
  "drive id": 1,
  "course_name": "Data Science Fundamentals",
  "provider": "Guvi",
  "duration": "3 months",
  "description": "Introduction to data science concepts, tools, and techniques.",
  "url": "https://guvi.in/data-science-fundamentals",
  "name": "Jane Smith",
  "email": "janesmith@example.com",
  "phone": "9876543211"
```

```
" id": "6679a032d506c1c5fbd43e4f",
 "student id": 3,
 "drive id": 2,
 "course name": "Machine Learning Masterclass",
 "provider": "Guvi",
 "duration": "4 months",
 "description": "Comprehensive course on machine learning algorithms and applications.",
 "url": "https://guvi.in/machine-learning-masterclass",
 "name": "Michael Johnson",
 "email": "michaeljohnson@example.com",
 "phone": "9876543212"
},
" id": "6679a032d506c1c5fbd43e50",
 "student id": 4,
 "drive id": 2,
 "course name": "Cloud Computing Essentials",
 "provider": "Guvi",
 "duration": "2 months",
 "description": "Introduction to cloud computing principles and platforms.",
 "url": "https://guvi.in/cloud-computing-essentials",
"name": "Emily Brown",
 "email": "emilybrown@example.com",
 "phone": "9876543213"
},
 " id": "6679a032d506c1c5fbd43e51",
 "student_id": 5,
 "drive_id": 3,
 "course_name": "Blockchain Basics",
 "provider": "Guvi",
 "duration": "1 month",
 "description": "Basic concepts and applications of blockchain technology.",
 "url": "https://guvi.in/blockchain-basics",
```

```
"name": "David Wilson",
 "email": "davidwilson@example.com",
 "phone": "9876543214"
},
 " id": "6679a032d506c1c5fbd43e52",
 "student id": 6,
 "drive_id": 3,
 "course name": "Artificial Intelligence Foundations",
 "provider": "Guvi",
 "duration": "3 months",
 "description": "Introduction to AI principles, algorithms, and applications.",
 "url": "https://guvi.in/artificial-intelligence-foundations",
 "name": "Sarah Lee",
 "email": "sarahlee@example.com",
 "phone": "9876543215"
},
 " id": "6679a032d506c1c5fbd43e53",
 "student_id": 7,
 "drive_id": 4,
 "course_name": "Cybersecurity Essentials",
 "provider": "Guvi",
 "duration": "2 months",
 "description": "Fundamental concepts and practices in cybersecurity.",
 "url": "https://guvi.in/cybersecurity-essentials",
 "name": "James Anderson",
 "email": "jamesanderson@example.com",
 "phone": "9876543216"
},
 " id": "6679a032d506c1c5fbd43e54",
 "student id": 8,
 "drive id": 4,
```

```
"course name": "Digital Marketing Strategies",
 "provider": "Guvi",
 "duration": "2 months",
 "description": "Learn digital marketing strategies and techniques for business growth.",
 "url": "https://guvi.in/digital-marketing-strategies",
 "name": "Emma Garcia",
 "email": "emmagarcia@example.com",
 "phone": "9876543217"
},
" id": "6679a032d506c1c5fbd43e55",
 "student id": 9,
 "drive id": 5,
 "course name": "Mobile App Development",
 "provider": "Guvi",
 "duration": "4 months",
 "description": "Build mobile applications for iOS and Android platforms.",
 "url": "https://guvi.in/mobile-app-development",
 "name": "Daniel Martinez",
 "email": "danielmartinez@example.com",
 "phone": "9876543218"
},
 " id": "6679a032d506c1c5fbd43e56",
 "student id": 10,
 "drive id": 6,
 "course name": "Python Programming Basics",
 "provider": "Guvi",
 "duration": "1 month",
 "description": "Introduction to Python programming language and basics.",
 "url": "https://guvi.in/python-programming-basics",
 "name": "Olivia Lopez",
 "email": "olivialopez@example.com",
 "phone": "9876543219"
```

```
},
 " id": "6679a032d506c1c5fbd43e57",
 "student_id": 11,
 "drive id": 7,
 "course name": "Web Design Fundamentals",
 "provider": "Guvi",
 "duration": "2 months",
 "description": "Learn basic and advanced principles of web design.",
 "url": "https://guvi.in/web-design-fundamentals",
 "name": "Matthew Clark",
 "email": "matthewclark@example.com",
 "phone": "9876543220"
},
" id": "6679a032d506c1c5fbd43e58",
 "student id": 12,
 "drive id": 8,
 "course name": "IoT Applications",
 "provider": "Guvi",
 "duration": "3 months",
 "description": "Explore applications of Internet of Things (IoT) in various industries...",
 "url": "https://guvi.in/iot-applications",
 "name": "Ava Adams",
 "email": "avaadams@example.com",
 "phone": "9876543221"
},
 " id": "6679a032d506c1c5fbd43e59",
 "student_id": 13,
 "drive_id": 9,
 "course_name": "Big Data Analytics",
 "provider": "Guvi",
 "duration": "4 months",
```

```
"description": "Introduction to big data analytics and tools.",
 "url": "https://guvi.in/big-data-analytics",
 "name": "William Baker",
 "email": "williambaker@example.com",
 "phone": "9876543222"
},
 " id": "6679a032d506c1c5fbd43e5a",
 "student id": 14,
 "drive id": 10,
 "course name": "Software Testing Techniques",
 "provider": "Guvi",
 "duration": "2 months",
 "description": "Learn software testing methodologies and techniques.",
 "url": "https://guvi.in/software-testing-techniques",
 "name": "Sophia Allen",
 "email": "sophiaallen@example.com",
 "phone": "9876543223"
},
 "_id": "6679a032d506c1c5fbd43e5b",
"student_id": 15,
 "drive_id": 11,
 "course_name": "Game Development Basics",
 "provider": "Guvi",
 "duration": "3 months",
 "description": "Introduction to game development principles and practices.",
 "url": "https://guvi.in/game-development-basics",
 "name": "Lucas Hall",
 "email": "lucashall@example.com",
 "phone": "9876543224"
},
 " id": "6679a032d506c1c5fbd43e5c",
```

```
"student id": 16,
 "drive id": 12,
 "course name": "UI/UX Design Fundamentals",
 "provider": "Guvi",
 "duration": "2 months",
 "description": "Basic principles and practices of user interface (UI) and user experie...",
 "url": "https://guvi.in/ui-ux-design-fundamentals",
 "name": "Isabella Scott",
 "email": "isabellascott@example.com",
 "phone": "9876543225"
},
 " id": "6679a032d506c1c5fbd43e5d",
 "student id": 17,
 "drive id": 13,
 "course name": "DevOps Essentials",
 "provider": "Guvi",
 "duration": "3 months",
 "description": "Fundamental concepts and tools in DevOps.",
 "url": "https://guvi.in/devops-essentials",
 "name": "Alexander Green",
 "email": "alexandergreen@example.com",
 "phone": "9876543226"
},
 " id": "6679a032d506c1c5fbd43e5e",
 "student_id": 18,
 "drive id": 14,
 "course_name": "React Native App Development",
 "provider": "Guvi",
 "duration": "2 months",
 "description": "Build cross-platform mobile apps using React Native framework.",
 "url": "https://guvi.in/react-native-app-development",
 "name": "Mia Martinez",
```

```
"email": "miamartinez@example.com",
 "phone": "9876543227"
},
" id": "6679a032d506c1c5fbd43e5f",
"student id": 19,
 "drive id": 15,
 "course name": "E-commerce Solutions",
 "provider": "Guvi",
 "duration": "3 months",
 "description": "Learn to build and manage e-commerce platforms.",
 "url": "https://guvi.in/e-commerce-solutions",
 "name": "Logan Rodriguez",
 "email": "loganrodriguez@example.com",
 "phone": "9876543228"
},
"_id": "6679a032d506c1c5fbd43e60",
 "student id": 20,
 "drive_id": 16,
 "course_name": "Artificial Intelligence Ethics",
 "provider": "Guvi",
 "duration": "1 month",
 "description": "Explore ethical considerations in artificial intelligence.",
 "url": "https://guvi.in/artificial-intelligence-ethics",
 "name": "Evelyn Hall",
 "email": "evelynhall@example.com",
 "phone": "9876543229"
```

2. Creating a collection of codekata,

```
db.createCollection ( 'codekata')
```

]

```
"_id": "66790c5cd506c1c5fbd43d41",
 "user_id": 1,
"problems_solved": 10,
 "date_completed": "2020-10-20T00:00:00Z"
},
 " id": "66790c5cd506c1c5fbd43d42",
 "user id": 2,
 "problems solved": 8,
"date_completed": "2020-10-21T00:00:00Z"
},
" id": "66790c5cd506c1c5fbd43d43",
 "user id": 3,
 "problems solved": 12,
 "date completed": "2020-10-22T00:00:00Z"
},
"_id": "66790c5cd506c1c5fbd43d44",
"user_id": 4,
"problems_solved": 15,
 "date_completed": "2020-10-23T00:00:00Z"
},
 "_id": "66790c5cd506c1c5fbd43d45",
 "user_id": 5,
"problems_solved": 9,
 "date_completed": "2020-10-24T00:00:00Z"
},
 "_id": "66790c5cd506c1c5fbd43d46",
 "user_id": 6,
```

```
"problems_solved": 11,
 "date completed": "2020-10-25T00:00:00Z"
},
"_id": "66790c5cd506c1c5fbd43d47",
"user_id": 7,
"problems solved": 14,
"date completed": "2020-10-26T00:00:00Z"
 " id": "66790c5cd506c1c5fbd43d48",
 "user_id": 8,
 "problems_solved": 7,
"date_completed": "2020-10-27T00:00:00Z"
},
 " id": "66790c5cd506c1c5fbd43d49",
 "user id": 9,
"problems solved": 10,
 "date_completed": "2020-10-28T00:00:00Z"
},
 "_id": "66790c5cd506c1c5fbd43d4a",
 "user_id": 10,
"problems_solved": 13,
 "date_completed": "2020-10-29T00:00:00Z"
},
 "_id": "66790c5cd506c1c5fbd43d4b",
 "user_id": 11,
 "problems_solved": 16,
 "date_completed": "2020-10-30T00:00:00Z"
```

```
" id": "66790c5cd506c1c5fbd43d4c",
 "user id": 12,
 "problems_solved": 18,
 "date_completed": "2020-10-31T00:00:00Z"
" id": "66790c5cd506c1c5fbd43d4d",
"user id": 13,
"problems solved": 20,
"date completed": "2020-11-01T00:00:00Z"
},
"_id": "66790c5cd506c1c5fbd43d4e",
 "user_id": 14,
"problems solved": 22,
 "date completed": "2020-11-02T00:00:00Z"
},
" id": "66790c5cd506c1c5fbd43d4f",
"user_id": 15,
"problems_solved": 25,
"date_completed": "2020-11-03T00:00:00Z"
},
" id": "66790c5cd506c1c5fbd43d50",
 "user_id": 16,
 "problems_solved": 27,
 "date_completed": "2020-11-04T00:00:00Z"
},
 "_id": "66790c5cd506c1c5fbd43d51",
 "user_id": 17,
 "problems_solved": 30,
 "date_completed": "2020-11-05T00:00:00Z"
```

```
},
  "_id": "66790c5cd506c1c5fbd43d52",
  "user_id": 18,
  "problems_solved": 32,
  "date_completed": "2020-11-06T00:00:00Z"
 },
  " id": "66790c5cd506c1c5fbd43d53",
  "user id": 19,
  "problems solved": 35,
  "date_completed": "2020-11-07T00:00:00Z"
 },
  " id": "66790c5cd506c1c5fbd43d54",
  "user id": 20,
  "problems solved": 38,
  "date completed": "2020-11-08T00:00:00Z"
]
```

3. Creating a collection of attendance,

```
db.createCollection ( 'attendance')

[

"_id": "667a5fcf7b4ffdc03ea2e357",

"student_id": 1,

"date_attended": "2020-10-15T00:00:00Z",

"status": "absent"

},

{

"_id": "667a5fcf7b4ffdc03ea2e358",

"student_id": 2,

"date_attended": "2020-10-16T00:00:00Z",
```

```
"status": "present"
},
"_id": "667a5fcf7b4ffdc03ea2e359",
"student_id": 3,
"date_attended": "2020-10-17T00:00:00Z",
"status": "present"
 " id": "667a5fcf7b4ffdc03ea2e35a",
 "student id": 4,
 "date_attended": "2020-10-185T00:00:00Z",
"status": "absent"
},
 " id": "667a5fcf7b4ffdc03ea2e35b",
 "student id": 5,
 "date_attended": "2020-10-19T00:00:00Z",
"status": "absent"
},
"_id": "667a5fcf7b4ffdc03ea2e35c",
"student_id": 6,
 "date_attended": "2020-10-20T00:00:00Z",
"status": "present"
 "_id": "667a5fcf7b4ffdc03ea2e35d",
"student_id": 7,
 "date_attended": "2020-10-21T00:00:00Z",
 "status": "present"
},
 "_id": "667a5fcf7b4ffdc03ea2e35e",
```

```
"student id": 8,
 "date attended": "2020-10-22T00:00:00Z",
 "status": "absent"
},
 "_id": "667a5fcf7b4ffdc03ea2e35f",
 "student id": 9,
 "date_attended": "2020-10-23T00:00:00Z",
 "status": "absent"
},
 "_id": "667a5fcf7b4ffdc03ea2e360",
 "student_id": 10,
 "date_attended": "2020-10-24T00:00:00Z",
 "status": "present"
},
 "_id": "667a5fcf7b4ffdc03ea2e361",
 "student id": 11,
 "date_attended": "2020-10-25T00:00:00Z",
 "status": "absent"
},
 "_id": "667a5fcf7b4ffdc03ea2e362",
 "student_id": 12,
 "date\_attended": "2020-10-26T00:00:00Z",\\
 "status": "present"
},
 "_id": "667a5fcf7b4ffdc03ea2e363",
 "student_id": 13,
 "date_attended": "2020-10-27T00:00:00Z",
 "status": "present"
},
```

```
" id": "667a5fcf7b4ffdc03ea2e364",
 "student_id": 14,
 "date_attended": "2020-10-28T00:00:00Z",
 "status": "absent"
},
 " id": "667a5fcf7b4ffdc03ea2e365",
 "student id": 15,
 "date_attended": "2020-10-29T00:00:00Z",
"status": "present"
},
 "_id": "667a5fcf7b4ffdc03ea2e366",
 "student id": 16,
"date attended": "2020-10-30T00:00:00Z",
"status": "absent"
},
"_id": "667a5fcf7b4ffdc03ea2e367",
"student_id": 17,
"date_attended": "2020-10-31T00:00:00Z",
"status": "present"
},
 "_id": "667a5fcf7b4ffdc03ea2e368",
 "student_id": 18,
 "date_attended": "2020-11-01T00:00:00Z",
 "status": "present"
},
 "_id": "667a5fcf7b4ffdc03ea2e369",
 "student_id": 19,
 "date_attended": "2020-11-02T00:00:00Z",
```

```
"status": "absent"
},
{
    "_id": "667a5fcf7b4ffdc03ea2e36a",
    "student_id": 20,
    "date_attended": "2020-11-03T00:00:00Z",
    "status": "present"
}
```

4. Creating a collection of topics,

```
db.createCollection ( 'topics' )
" id": "60d59f0a3f4b0a744829d9f1",
    "user_id": 1,
    "topic_name": "MongoDB",
    "date": "2024-10-25T00:00:00Z"
  },
    "_id": "60d59f0a3f4b0a744829d9f2",
    "user_id": 2,
    "topic_name": "Indexes in MongoDB",
    "date": "2023-10-26T00:00:00Z"
  },
    "_id": "60d59f0a3f4b0a744829d9f3",
    "user_id": 3,
    "topic_name": "Aggregation Framework",
    "date": "2023-10-27T00:00:00Z"
  },
```

```
" id": "60d59f0a3f4b0a744829d9f4",
  "user id": 4,
  "topic_name": "Schema Design",
  "date": "2023-10-28T00:00:00Z"
},
  " id": "60d59f0a3f4b0a744829d9f5",
  "user id": 5,
  "topic name": "Replication in MongoDB",
  "date": "2023-10-29T00:00:00Z"
},
  " id": "60d59f0a3f4b0a744829d9f6",
  "user_id": 6,
  "topic name": "Sharding in MongoDB",
  "date": "2023-10-30T00:00:00Z"
},
  " id": "60d59f0a3f4b0a744829d9f7",
  "user_id": 7,
  "topic_name": "Transactions",
  "date": "2023-10-31T00:00:00Z"
},
  " id": "60d59f0a3f4b0a744829d9f8",
  "user_id": 8,
  "topic_name": "Change Streams",
  "date": "2023-11-01T00:00:00Z"
},
  "_id": "60d59f0a3f4b0a744829d9f9",
  "user_id": 9,
  "topic_name": "Geospatial Queries",
  "date": "2023-11-02T00:00:00Z"
```

```
},
   "_id": "60d59f0a3f4b0a744829d9fa",
   "user_id": 10,
   "topic_name": "GridFS",
   "date": "2023-11-03T00:00:00Z"
} [
 " id": "60d59f0a3f4b0a744829d9f1",
 "user id": 1,
 "topic_name": "MongoDB",
"date": "2024-10-25T00:00:00Z"
},
" id": "60d59f0a3f4b0a744829d9f2",
"user id": 2,
 "topic name": "Indexes in MongoDB",
"date": "2023-10-26T00:00:00Z"
},
"_id": "60d59f0a3f4b0a744829d9f3",
"user_id": 3,
"topic_name": "Aggregation Framework",
"date": "2023-10-27T00:00:00Z"
},
"_id": "60d59f0a3f4b0a744829d9f4",
"user_id": 4,
"topic_name": "Schema Design",
 "date": "2023-10-28T00:00:00Z"
},
" id": "60d59f0a3f4b0a744829d9f5",
 "user_id": 5,
```

```
"topic name": "Replication in MongoDB",
 "date": "2023-10-29T00:00:00Z"
},
" id": "60d59f0a3f4b0a744829d9f6",
"user_id": 6,
"topic name": "Sharding in MongoDB",
"date": "2023-10-30T00:00:00Z"
},
" id": "60d59f0a3f4b0a744829d9f7",
 "user_id": 7,
"topic_name": "Transactions",
"date": "2023-10-31T00:00:00Z"
},
" id": "60d59f0a3f4b0a744829d9f8",
"user id": 8,
"topic_name": "Change Streams",
"date": "2023-11-01T00:00:00Z"
},
"_id": "60d59f0a3f4b0a744829d9f9",
 "user_id": 9,
 "topic_name": "Geospatial Queries",
 "date": "2023-11-02T00:00:00Z"
},
 "_id": "60d59f0a3f4b0a744829d9fa",
"user_id": 10,
 "topic_name": "GridFS",
"date": "2023-11-03T00:00:00Z"
```

```
" id": "60d59f0a3f4b0a744829d9fb",
 "user id": 11,
 "topic_name": "MongoDB Atlas",
 "date": "2023-11-04T00:00:00Z"
" id": "60d59f0a3f4b0a744829d9fc",
"user id": 12,
 "topic name": "Document Validation",
"date": "2023-11-05T00:00:00Z"
},
" id": "60d59f0a3f4b0a744829d9fd",
 "user_id": 13,
"topic name": "Capped Collections",
"date": "2023-11-06T00:00:00Z"
},
" id": "60d59f0a3f4b0a744829d9fe",
"user_id": 14,
"topic_name": "MongoDB Security",
"date": "2023-11-07T00:00:00Z"
},
" id": "60d59f0a3f4b0a744829d9ff",
 "user_id": 15,
 "topic_name": "Backup and Restore",
"date": "2023-11-08T00:00:00Z"
},
"_id": "60d59f0a3f4b0a744829d900",
 "user_id": 16,
 "topic_name": "MongoDB Performance Tuning",
 "date": "2023-11-09T00:00:00Z"
```

```
},
  "_id": "60d59f0a3f4b0a744829d901",
  "user_id": 17,
  "topic_name": "MongoDB Data Modeling",
  "date": "2023-11-10T00:00:00Z"
 },
  " id": "60d59f0a3f4b0a744829d902",
  "user id": 18,
  "topic name": "MongoDB Backup Strategies",
  "date": "2023-11-11T00:00:00Z"
 },
  " id": "60d59f0a3f4b0a744829d903",
  "user id": 19,
  "topic_name": "MongoDB Cloud",
  "date": "2023-11-12T00:00:00Z"
 },
  "_id": "60d59f0a3f4b0a744829d904",
  "user_id": 20,
  "topic_name": "MongoDB Transactions",
  "date": "2023-11-13T00:00:00Z"
]
```

5. Creating a collection of tasks,

```
db.createCollection ( 'tasks')
[
    {
      "_id": "667a881d7b4ffdc03ea2e38e",
```

```
"student id": 1,
 "topic id": 1,
 "task name": "Introduction to MongoDB",
 "task description": "Learn basics of MongoDB",
 "task status": "Not Completed",
 "date": "2020-10-15T00:00:00Z"
},
 " id": "667a881d7b4ffdc03ea2e38f",
 "student id": 2,
 "topic id": 2,
 "task name": "Indexing Strategies",
 "task description": "Understand different indexing strategies in MongoDB",
 "task status": "Completed",
 "date": "2020-10-16T00:00:00Z"
},
 " id": "667a881d7b4ffdc03ea2e390",
 "student id": 3,
 "topic_id": 3,
 "task_name": "Aggregation Pipeline",
 "task_description": "Explore the aggregation framework in MongoDB",
 "task_status": "Completed",
 "date": "2020-10-17T00:00:00Z"
},
 " id": "667a881d7b4ffdc03ea2e391",
 "student_id": 4,
 "topic_id": 4,
 "task_name": "Schema Design Best Practices",
 "task_description": "Learn best practices for schema design in MongoDB",
 "task_status": "Not_Completed",
 "date": "2020-10-18T00:00:00Z"
},
```

```
" id": "667a881d7b4ffdc03ea2e392",
 "student_id": 5,
 "topic id": 5,
 "task name": "Replication Setup",
 "task description": "Setup and configure replication in MongoDB",
 "task status": "Not Completed",
 "date": "2020-10-19T00:00:00Z"
},
" id": "667a881d7b4ffdc03ea2e393",
 "student id": 6,
 "topic id": 6,
 "task name": "Sharding Concepts",
 "task description": "Understand sharding concepts and implementation in MongoDB",
 "task status": "Not Completed",
 "date": "2020-10-20T00:00:00Z"
},
"_id": "667a881d7b4ffdc03ea2e394",
 "student_id": 7,
 "topic_id": 7,
 "task_name": "Transactional Operations",
 "task_description": "Implement transactional operations in MongoDB",
 "task_status": "Completed",
 "date": "2023-10-21T00:00:00Z"
},
 " id": "667a881d7b4ffdc03ea2e395",
 "student_id": 8,
 "topic_id": 8,
 "task_name": "Change Streams Implementation",
 "task description": "Implement change streams for real-time data updates in MongoDB",
 "task status": "Completed",
```

```
"date": "2020-10-22T00:00:00Z"
},
" id": "667a881d7b4ffdc03ea2e396",
 "student_id": 9,
 "topic id": 9,
 "task name": "Geospatial Queries",
 "task description": "Explore geospatial queries in MongoDB for location-based data",
 "task status": "Not Completed",
 "date": "2020-10-23T00:00:00Z"
},
" id": "667a881d7b4ffdc03ea2e397",
 "student_id": 10,
 "topic id": 10,
 "task name": "Using GridFS",
 "task description": "Learn how to use GridFS for storing and retrieving large files in MongoDB",
 "task status": "Completed",
 "date": "2020-10-24T00:00:00Z"
},
" id": "667a881d7b4ffdc03ea2e398",
 "student_id": 11,
 "topic_id": 11,
 "task_name": "MongoDB Performance Tuning",
 "task description": "Optimize MongoDB performance for large datasets",
 "task_status": "Completed",
 "date": "2020-10-25T00:00:00Z"
},
"_id": "667a881d7b4ffdc03ea2e399",
 "student_id": 12,
 "topic id": 12,
 "task_name": "MongoDB Backup Strategies",
```

```
"task description": "Implement effective backup strategies for MongoDB",
 "task status": "Completed",
 "date": "2020-10-26T00:00:00Z"
" id": "667a881d7b4ffdc03ea2e39a",
 "student id": 13,
 "topic id": 13,
 "task name": "MongoDB Data Encryption",
 "task description": "Secure MongoDB data with encryption mechanisms",
 "task status": "Not Completed",
 "date": "2020-10-27T00:00:00Z"
},
" id": "667a881d7b4ffdc03ea2e39b",
 "student id": 14,
 "topic id": 14,
 "task name": "MongoDB Data Aggregation",
 "task description": "Perform complex data aggregations in MongoDB",
 "task_status": "Completed",
"date": "2020-10-28T00:00:00Z"
},
 "_id": "667a881d7b4ffdc03ea2e39c",
 "student_id": 15,
 "topic id": 15,
 "task_name": "MongoDB Atlas Deployment",
 "task description": "Deploy MongoDB using MongoDB Atlas cloud service",
 "task_status": "Not_Completed",
 "date": "2020-10-29T00:00:00Z"
},
 " id": "667a881d7b4ffdc03ea2e39d",
 "student id": 16,
```

```
"topic id": 16,
 "task name": "MongoDB Query Optimization",
 "task description": "Optimize MongoDB queries for improved performance",
 "task status": "Completed",
 "date": "2020-10-30T00:00:00Z"
},
 " id": "667a881d7b4ffdc03ea2e39e",
 "student id": 17,
 "topic id": 17,
 "task name": "MongoDB Full-Text Search",
 "task description": "Implement full-text search capabilities in MongoDB",
 "task status": "Not Completed",
 "date": "2020-10-31T00:00:00Z"
},
 " id": "667a881d7b4ffdc03ea2e39f",
 "student id": 18,
 "topic id": 18,
 "task_name": "MongoDB Performance Monitoring",
 "task_description": "Monitor MongoDB performance metrics and statistics",
 "task_status": "Completed",
 "date": "2020-11-01T00:00:00Z"
},
 " id": "667a881d7b4ffdc03ea2e3a0",
 "student_id": 19,
 "topic id": 19,
 "task_name": "MongoDB Transactions",
 "task_description": "Implement multi-document transactions in MongoDB",
 "task_status": "Not_Completed",
 "date": "2020-11-02T00:00:00Z"
```

```
"_id": "667a881d7b4ffdc03ea2e3a1",

"student_id": 20,

"topic_id": 20,

"task_name": "MongoDB Time-Series Data",

"task_description": "Utilize MongoDB for managing time-series data",

"task_status": "Completed",

"date": "2020-11-03T00:00:00Z"

}
```

6. Creating a collection of company drives,

```
db.createCollection ( 'company_drives')
"_id": "6679611fd506c1c5fbd43dce",
  "drive_id": 1,
  "drive_name": "Healthcare IT Summit",
  "drive_date": "2020-10-15T00:00:00Z"
 },
  "_id": "6679611fd506c1c5fbd43dcf",
  "drive_id": 2,
  "drive_name": "FinTech Expo",
  "drive date": "2020-10-16T00:00:00Z"
 },
  "_id": "6679611fd506c1c5fbd43dd0",
  "drive_id": 3,
  "drive_name": "E-commerce Forum",
  "drive date": "2020-10-17T00:00:00Z"
```

```
" id": "6679611fd506c1c5fbd43dd1",
 "drive id": 4,
 "drive_name": "Artificial Intelligence Conference",
 "drive_date": "2020-10-18T00:00:00Z"
"_id": "6679611fd506c1c5fbd43dd2",
"drive id": 5,
"drive name": "Cybersecurity Summit",
"drive date": "2020-10-19T00:00:00Z"
},
"_id": "6679611fd506c1c5fbd43dd3",
 "drive_id": 6,
"drive name": "XYZ Company Drive",
 "drive date": "2020-10-20T00:00:00Z"
},
" id": "6679611fd506c1c5fbd43dd4",
"drive_id": 7,
"drive_name": "ABC Tech Hiring Event",
"drive_date": "2020-10-21T00:00:00Z"
},
"_id": "6679611fd506c1c5fbd43dd5",
 "drive_id": 8,
 "drive_name": "Tech Innovators Recruitment",
 "drive_date": "2020-10-22T00:00:00Z"
},
 "_id": "6679611fd506c1c5fbd43dd6",
 "drive_id": 9,
 "drive_name": "Global IT Solutions Career Fair",
 "drive_date": "2020-10-23T00:00:00Z"
```

```
},
 "_id": "6679611fd506c1c5fbd43dd7",
"drive_id": 10,
"drive_name": "Software Development Expo",
 "drive_date": "2020-10-24T00:00:00Z"
},
 " id": "6679611fd506c1c5fbd43dd8",
 "drive id": 11,
 "drive_name": "Data Science Summit",
 "drive_date": "2020-10-25T00:00:00Z"
},
" id": "6679611fd506c1c5fbd43dd9",
 "drive id": 12,
 "drive name": "Cloud Computing Forum",
 "drive date": "2020-10-26T00:00:00Z"
},
"_id": "6679611fd506c1c5fbd43dda",
"drive_id": 13,
"drive_name": "Cybersecurity Career Expo",
"drive_date": "2020-10-27T00:00:00Z"
},
 "_id": "6679611fd506c1c5fbd43ddb",
 "drive_id": 14,
 "drive_name": "AI and Machine Learning Showcase",
 "drive_date": "2020-10-28T00:00:00Z"
},
 "_id": "6679611fd506c1c5fbd43ddc",
 "drive_id": 15,
```

```
"drive name": "Startup Career Fair",
 "drive date": "2020-10-29T00:00:00Z"
},
"_id": "6679611fd506c1c5fbd43ddd",
"drive id": 16,
"drive name": "Digital Transformation Conference",
"drive date": "2020-10-30T00:00:00Z"
},
" id": "6679611fd506c1c5fbd43dde",
 "drive id": 17,
"drive_name": "Blockchain Summit",
"drive_date": "2020-10-31T00:00:00Z"
},
 " id": "6679611fd506c1c5fbd43ddf",
 "drive id": 18,
"drive name": "Big Data Expo",
"drive_date": "2020-11-01T00:00:00Z"
},
"_id": "6679611fd506c1c5fbd43de0",
 "drive_id": 19,
 "drive_name": "Internet of Things Symposium",
 "drive_date": "2020-11-02T00:00:00Z"
},
 "_id": "6679611fd506c1c5fbd43de1",
 "drive_id": 20,
 "drive_name": "AI Ethics Forum",
 "drive_date": "2020-11-03T00:00:00Z"
```

7. Creating a collection of mentors,

```
db.createCollection ( 'mentors' )
 "_id": "667a57117b4ffdc03ea2e337",
 "mentor_id": 1,
 "mentor_name": "Jane Smith",
 "mentees_count": 9
},
 " id": "667a57117b4ffdc03ea2e338",
 "mentor_id": 2,
 "mentor_name": "John Gabriel",
 "mentees_count": 12
},
 "_id": "667a57117b4ffdc03ea2e339",
 "mentor_id": 3,
 "mentor_name": "Emily Brown",
 "mentees_count": 10
},
 "_id": "667a57117b4ffdc03ea2e33a",
 "mentor_id": 4,
 "mentor_name": "Michael Johnson",
 "mentees_count": 9
},
 "_id": "667a57117b4ffdc03ea2e33b",
 "mentor_id": 5,
 "mentor_name": "Jessica Lee",
  "mentees_count": 23
```

```
},
"_id": "667a57117b4ffdc03ea2e33c",
"mentor_id": 6,
"mentor_name": "David Wilson",
 "mentees_count": 8
},
 " id": "667a57117b4ffdc03ea2e33d",
 "mentor id": 7,
 "mentor_name": "Sophia Martinez",
"mentees_count": 25
},
" id": "667a57117b4ffdc03ea2e33e",
 "mentor id": 8,
 "mentor_name": "Daniel Thompson",
 "mentees_count": 20
},
"_id": "667a57117b4ffdc03ea2e33f",
"mentor_id": 9,
"mentor_name": "Olivia Garcia",
 "mentees_count": 10
},
"_id": "667a57117b4ffdc03ea2e340",
 "mentor_id": 10,
 "mentor_name": "William Davis",
 "mentees_count": 19
},
"_id": "667a57117b4ffdc03ea2e341",
 "mentor_id": 11,
```

```
"mentor_name": "Sophia Martinez",
"mentees count": 13
},
"_id": "667a57117b4ffdc03ea2e342",
"mentor_id": 12,
"mentor_name": "Daniel Thompson",
"mentees count": 7
},
" id": "667a57117b4ffdc03ea2e343",
"mentor_id": 13,
"mentor_name": "Olivia Garcia",
"mentees_count": 19
},
"_id": "667a57117b4ffdc03ea2e344",
 "mentor id": 14,
"mentor_name": "William Davis",
"mentees_count": 9
},
"_id": "667a57117b4ffdc03ea2e345",
 "mentor_id": 15,
 "mentor_name": "Jane Smith",
"mentees_count": 6
},
"_id": "667a57117b4ffdc03ea2e346",
"mentor_id": 16,
 "mentor_name": "John Gabriel",
 "mentees_count": 6
```

```
" id": "667a57117b4ffdc03ea2e347",
  "mentor id": 17,
  "mentor_name": "Emily Brown",
  "mentees_count": 10
  " id": "667a57117b4ffdc03ea2e348",
  "mentor_id": 18,
  "mentor_name": "Michael Johnson",
  "mentees_count": 9
 },
  "_id": "667a57117b4ffdc03ea2e349",
  "mentor_id": 19,
  "mentor name": "Jessica Lee",
  "mentees count": 20
 },
  "_id": "667a57117b4ffdc03ea2e34a",
  "mentor_id": 20,
  "mentor_name": "David Wilson",
  "mentees_count": 16
]
```

8. Creating a collection of participation,

```
db.createCollection ( 'participation')
[
{
"_id": "667995f4d506c1c5fbd43e33",
"part_id": 1,
"student_id": 1,
"drive_id": 1,
```

```
"registration_date": "2023-05-20T00:00:00Z",
 "status": "registered"
},
 "_id": "667995f4d506c1c5fbd43e34",
 "part_id": 2,
 "student_id": 2,
 "drive id": 2,
 "registration date": "2023-05-21T00:00:00Z",
 "status": "attended"
},
 "_id": "667995f4d506c1c5fbd43e35",
 "part_id": 3,
 "student id": 3,
 "drive id": 3,
 "registration_date": "2023-06-02T00:00:00Z",
 "status": "registered"
},
 "_id": "667995f4d506c1c5fbd43e36",
 "part_id": 4,
 "student_id": 4,
 "drive_id": 4,
 "registration_date": "2023-06-05T00:00:00Z",
 "status": "attended"
},
 "_id": "667995f4d506c1c5fbd43e37",
 "part_id": 5,
 "student_id": 5,
 "drive_id": 5,
 "registration_date": "2023-06-12T00:00:00Z",
 "status": "registered"
```

```
},
 "_id": "667995f4d506c1c5fbd43e38",
 "part_id": 6,
 "student_id": 6,
 "drive_id": 6,
 "registration_date": "2023-06-15T00:00:00Z",
 "status": "attended"
},
 " id": "667995f4d506c1c5fbd43e39",
 "part_id": 7,
 "student_id": 7,
 "drive_id": 7,
 "registration_date": "2023-06-20T00:00:00Z",
 "status": "registered"
},
 " id": "667995f4d506c1c5fbd43e3a",
 "part_id": 8,
 "student_id": 8,
 "drive_id": 8,
 "registration_date": "2023-06-22T00:00:00Z",
 "status": "attended"
},
 "_id": "667995f4d506c1c5fbd43e3b",
 "part_id": 9,
 "student_id": 9,
 "drive_id": 9,
 "registration_date": "2023-06-25T00:00:00Z",
 "status": "registered"
},
```

```
" id": "667995f4d506c1c5fbd43e3c",
 "part_id": 10,
 "student_id": 10,
 "drive_id": 10,
 "registration_date": "2023-06-28T00:00:00Z",
 "status": "attended"
},
 " id": "667995f4d506c1c5fbd43e3d",
 "part_id": 11,
 "student id": 11,
 "drive_id": 11,
 "registration_date": "2023-07-02T00:00:00Z",
 "status": "registered"
},
 " id": "667995f4d506c1c5fbd43e3e",
 "part id": 12,
 "student id": 12,
 "drive_id": 12,
 "registration_date": "2023-07-05T00:00:00Z",
 "status": "attended"
},
 "_id": "667995f4d506c1c5fbd43e3f",
 "part_id": 13,
 "student_id": 13,
 "drive_id": 13,
 "registration_date": "2023-07-10T00:00:00Z",
 "status": "registered"
},
 "_id": "667995f4d506c1c5fbd43e40",
 "part_id": 14,
```

```
"student id": 14,
 "drive_id": "drive_id_7",
 "registration_date": "2023-07-12T00:00:00Z",
 "status": "attended"
 " id": "667995f4d506c1c5fbd43e41",
 "part_id": 15,
 "student id": 15,
 "drive id": 15,
 "registration_date": "2023-07-15T00:00:00Z",
 "status": "registered"
},
 " id": "667995f4d506c1c5fbd43e42",
 "part id": 16,
 "student id": 16,
 "drive id": 16,
 "registration date": "2023-07-18T00:00:00Z",
 "status": "attended"
},
 "_id": "667995f4d506c1c5fbd43e43",
 "part_id": 17,
 "student_id": 17,
 "drive_id": 17,
 "registration_date": "2023-07-22T00:00:00Z",
 "status": "registered"
},
 "_id": "667995f4d506c1c5fbd43e44",
 "part_id": 18,
 "student_id": 18,
 "drive_id": 18,
```

```
"registration_date": "2023-07-25T00:00:00Z",
  "status": "attended"
 },
  "_id": "667995f4d506c1c5fbd43e45",
  "part_id": 19,
  "student id": 19,
  "drive id": 19,
  "registration date": "2023-07-30T00:00:00Z",
  "status": "registered"
 },
  "_id": "667995f4d506c1c5fbd43e46",
  "part_id": 20,
  "student id": 20,
  "drive id": 20,
  "registration_date": "2023-08-02T00:00:00Z",
  "status": "attended"
]
```

Queries:

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

```
db.tasks.aggregate (

[
{
$match: {
    date: {
        $gte:'2020-10-01T00:00:00Z',
        $lte: '2020-10-31T23:59:59Z'
    }
    }
}
```

```
$lookup: {
from: "topics",
localField: "topic_id",
foreignField: "user_id",
as: "topics"
}
},
$unwind: "$topics"
},
$project: {
date: 1,
task_name: 1,
topic_name: "$topics.topic_name",
}
])
              db.tasks.aggregate([
              $match: {
date: {
              $gte:'2020-10-01T00:00:00Z',
$lte: '2020-10-31T23:59:59Z'
              {
    $lookup: {
    from: "topics",
    localField: "topic_id",
    foreignField: "user_id",
    as: "topics"
}
```

\$project: {
date: 1,

task_name: 1,
topic_name: "\$topics.topic_name",

```
> MONOOSH

({
    __id: '667a881d7b4ffdc8ae2e38e',
    __task_name: 'Introduction to Mongoo8',
    date: '2020-10-15780:80:802',
    topic_name: 'Mongoo8'
}

(___id: '667a881d7b4ffdc8ae2e38f',
    task_name: 'Indexing Strategies',
    date: '2020-10-16780:80:802',
    topic_name: 'Indexes in Mongoo8'
}

(___id: '667a881d7b4ffdc8ae2e39e',
    task_name: 'Aggregation Pipeline',
    date: '2020-10-16780:80:802',
    topic_name: 'Aggregation Pipeline',
    date: '2020-10-1780:80:802',
    topic_name: 'Aggregation Pipeline',
    date: '2020-10-1780:80:802',
    topic_name: 'Aggregation Framework'
}
```

```
p.MONGOSH

{
    _id: '667a881d7b4ffdc03ea2e395',
    task_name: 'Change Streams Implementation',
    date: '2202-10-227001001002',
    topic_name: 'Change Streams'
}

{
    _id: '667a881d7b4ffdc03ea2e396',
    task_name: 'Geospatial Queries',
    date: '2202-10-227001001002',
    topic_name: 'Geospatial Queries'
}

{
    _id: '667a881d7b4ffdc03ea2e397',
    task_name: 'Using Gridfs',
    date: '2020-10-247001001002',
    topic_name: 'Gridfs'
}
```

```
### NONGOSH

{
    _id: '667a881d7b4ffdc03ea2e398',
    task_name: 'NongoB Performance Tuning',
    date: '2020-10-25700:00:002',
    topic_name: 'MongoB Atlas'
}

{
    _id: '667a881d7b4ffdc03ea2e399',
    task_name: MongoB Backup Strategies',
    date: '2020-10-26700:00:002',
    topic_name: 'Bocument Validation'
}

{
    _id: '667a881d7b4ffdc03ea2e399',
    task_name: 'Bocument Validation'
}

{
    _id: '667a881d7b4ffdc03ea2e399',
    task_name: 'Bocument Validation'
}

{
    _id: '667a881d7b4ffdc03ea2e39a',
    task_name: 'NongoB Data Encryption',
    date: '2020-10-27700:00:002',
    topic_name: 'Capped Collections'
}
```

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

```
db.company_drives.find({
    drive_date: {
        $gte: "2020-10-15T00:00:00Z",
        $lte: "2020-10-31T23:59:59Z"
    }
})
```

```
### NONOOSH

{
    _id: ObjectId('6679611fd506c1c5fbd43dd0'),
    drive_id: 3,
    drive_name: 'E-commerce Forum',
    drive_date: '2020-10-17T00:00:002'
}
{
    _id: ObjectId('6679611fd506c1c5fbd43dd1'),
    drive_id: 4,
    drive_name: 'Artificial Intelligence Conference',
    drive_date: '2020-10-18T00:00:002'
}
{
    _id: ObjectId('6679611fd506c1c5fbd43dd2'),
    drive_id: 5,
    drive_name: 'Vybersecurity Summit',
    drive_name: 'Vybersecurity Summit',
    drive_date: '2020-10-19T00:00:002'
}
```

```
>_MONOOSH

{
    __id: ObjectId('6679611fd506c1c5fbd43dd3'),
    drive_id: 6,
    drive_name: 'XYZ Company Drive',
    drive_date: '2020-10-20700:00:002'
}
{
    __id: ObjectId('6679611fd506c1c5fbd43dd4'),
    drive_id: 7,
    drive_name: 'ABC Tech Hiring Event',
    drive_date: '2020-10-21700:00:002'
}
{
    __id: ObjectId('6679611fd506c1c5fbd43dd5'),
    drive_id: 8,
    drive_name: 'Tech Innovators Recruitment',
    drive_date: '2020-10-22700:00:002'
}
```

```
>>MONOOSH

{
    id: ObjectId('6679611fd596c1c5fbd43dd6'),
    drive_id: 9,
    drive_name: 'Global IT Solutions Career Fair',
    drive_date: '2920-10-23T00:00:00Z'
}

{
    _id: ObjectId('6679611fd596c1c5fbd43dd7'),
    drive_id: 10,
    drive_name: 'Software Development Expo',
    drive_date: '2920-10-24T00:00:00Z'
}

{
    _id: ObjectId('6679611fd596c1c5fbd43dd8'),
    drive_id: 11,
    drive_name: 'Data Science Summit',
    drive_name: 'Data Science Summit',
    drive_date: '2920-10-25T00:00:00Z'
}
```

```
{
    _id: ObjectId('6679611fd596c1c5fbd43dd9'),
    drive_id: 12,
    drive_name: 'Cloud Computing Forum',
    drive_date: '2020-10-26T00:00:002'
}
{
    _id: ObjectId('6679611fd506c1c5fbd43dda'),
    drive_id: 13,
    drive_name: 'Cybersecurity Career Expo',
    drive_date: '2020-10-27T00:00:002'
}
{
    _id: ObjectId('6679611fd506c1c5fbd43ddb'),
    drive_date: '2020-10-27T00:00:002'
}

{
    _id: ObjectId('6679611fd506c1c5fbd43ddb'),
    drive_name: 'AI and Machine Learning Showcase',
    drive_name: 'AI and Machine Learning Showcase',
    drive_date: '2020-10-28T00:00:002'
}
```

```
>,MONOOSH

{
    _id: ObjectId('6679611fd506c1c5fbd43ddc'),
    drive_id: 15,
    drive_name: 'Startup Career Fair',
    drive_date: '2020-10-29700:00:00Z'
}

{
    _id: ObjectId('6679611fd506c1c5fbd43ddd'),
    drive_id: 16,
    drive_name: 'Digital Transformation Conference',
    drive_date: '2020-10-30700:00:00Z'
}

{
    _id: ObjectId('6679611fd506c1c5fbd43dde'),
    drive_id: 17,
    drive_name: 'Blockchain Summit',
    drive_name: 'Blockchain Summit',
    drive_date: '2020-10-31700:00:00Z'
}
```

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

```
db.company_drives.aggregate([
  $lookup: {
  from: "participation",
  localField: "drive_id",
  foreignField: "part_id",
  as: "placements"
 $unwind: "$placements"
 },
$lookup: {
 from: "students",
 localField: "placements.student_id",
 foreignField: "drive_id",
 as: "student_info"
$unwind: "$student_info"
```

```
$match: {
   "placements.status": "attended"
}
},
{

$project: {

   drive_name: "$drive_name",
    drive_date: "$drive_date",
   student_name: "$student_info.name",
   status:"$placements.status"
}
}
])
```

```
>_MONOOSH

}
},
{
    $unwind: "$student_info"
},
{
    $match: {
        "placements.status": "attended"
}
},
{
    $project: {
        drive_name: "$drive_name",
        drive_date: "$drive_date",
        student_name: "$student_info.name",
        status:"$placements.status"
}
}
])
```

```
drive_name: 'FinTech Expo',
drive_date: '2020-10-16T00:00:00Z',
 drive_name: 'Artificial Intelligence Conference',
 drive_date: '2020-10-18T00:00:00Z',
student_name: 'James Anderson',
 student_name: 'Emma Garcia',
status: 'attended'
 _id: ObjectId('6679611fd506c1c5fbd43dd3'),
drive_name: 'XYZ Company Drive',
drive_date: '2020-10-20T00:00:00Z',
status: 'attended'
```

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

```
db.students.aggregate([ {
```

```
$lookup: {
        from: "codekata",
        localField: "user_id",
        foreignField: "student_id",
        as: "codekata_info"
     }
   },
     $unwind: "$codekata_info"
  },
     $project: {
        _id:0,
        name: 1,
        problems_solved: "$codekata_info.problems_solved",
        student_id: "$codekata_info.user_id",
])
           db.students.aggregate([
                  localField: "user_id",
foreignField: "student_id",
```

\$project: {

problems_solved: "\$codekata_info.problems_solved",
student_id: "\$codekata_info.user_id",

```
>_MONOOSH

{
    name: 'John Doe',
    problems_solved: 9,
    student_id: 5
    }
    {
        name: 'John Doe',
        problems_solved: 11,
        student_id: 6
    }
    {
        name: 'John Doe',
        problems_solved: 14,
        student_id: 7
    }
    {
        name: 'John Doe',
        problems_solved: 7,
        student_id: 8
}
```

```
p.MONOOSH

{
    name: 'John Doe',
    problems_solved: 10,
    student_id: 9
}

{
    name: 'John Doe',
    problems_solved: 13,
    student_id: 10
}

{
    name: 'John Doe',
    problems_solved: 16,
    student_id: 11
}

{
    name: 'John Doe',
    problems_solved: 18,
    student_id: 12
}
```

```
>_MONOOSH

{
    name: 'John Doe',
    problems_solved: 28,
    student_id: 13
}

{
    name: 'John Doe',
    problems_solved: 22,
    student_id: 14
}

{
    name: 'John Doe',
    problems_solved: 25,
    student_id: 15
}

{
    name: 'John Doe',
    problems_solved: 27,
    student_id: 16
}
```

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 oct-2020 and 31-oct-2020

```
db.attendance.aggregate (
[
 {
  $match: {
   date_attended: {
    $gte: "2020-10-15T00:00:00Z",
    $lte: "2020-10-31T23:59:59Z"
   status: "absent"
 },
  $lookup: {
   from: "tasks",
   let: { student_id: "$student_id" },
   pipeline: [
      $match: {
       $expr: {
        $and: [
          { $eq: ["$student_id", "$$student_id"] },
          { $gte: ["$date", "2020-10-15T00:00:00Z"] },
          { $lte: ["$date", "2020-10-31T23:59:59Z"] },
          { $ne: ["$task_status", "Completed"] }
   ],
   as: "not_completed_tasks"
  }
 },
  $match: {
   "not_completed_tasks": { $exists: true, $not: { $size: 0 } }
}
```

},

```
{
    $count: "The number of users who are absent and task is not submitted between 15 oct-2020 and 31-oct-
    2020"
}
])
```

```
{
    $match: {
        "not_completed_tasks": { $exists: true, $not: { $size: 0 } }
    }
},
{
    $count: "The number of users who are absent and task is not submitted between 15 oct-2020 and 31-oct-2020"
}
])
```