- **Created a database named “todo”**

```
 use todo
```

- **Inserted one record to a table named tasks_table**
  Table contains task_name,time(start,end),status of the task

```
db.tasks_table.insertOne({task_name:"Attend Class", time:{start: new Date("2025-05-
28T10:00:00Z"), end: new Date("2025-05-28T18:00:00Z")}, status:"pending"})
```

- **to see the contenst of table**

```
db.tasks_table.find()
```

- **inserting records one by one**

```
db.tasks_table.insertOne({task_name:"Submit Assignment", time:{start:new Date("2025-05-
28T11:30:00"), end:new Date("2025-05-28T12:00:00")}, status:"done"})
```

added on

```
db.tasks_table.find()
```

```
  db.tasks.insertOne({task_name: "Study MongoDB", time: {start: new Date("2025-05-
28T14:00:00Z"), end: new Date("2025-05-28T15:00:00Z")}, acknowledge: "pending"})
```

```
db.tasks_table.find()
```

```
            db.tasks_table.insertOne({task_name: "Study MongoDB", time: {start: new
Date("2025-05-   28T14:00:00Z"), end: new Date("2025-05-28T15:00:00Z")}, acknowledge:
"pending"})
```

```
 db.tasks_table.find()
```

```
  db.tasks_table.insertOne({task_name: "Check Results", time: {start: new Date("2025-05-
28T15:15:00Z"), end: new Date("2025-05-28T15:30:00Z")}, acknowledge: "done"})
```

```
db.tasks_table.find()
```

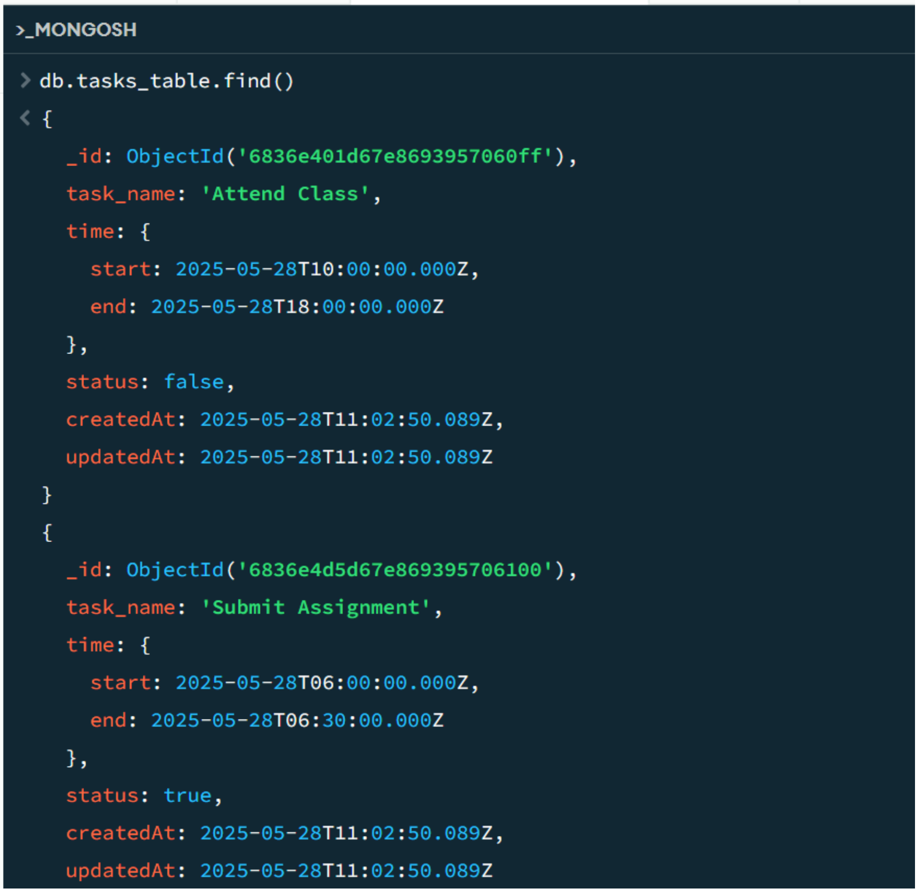
```
 db.tasks_table.insertOne({task_name: "Join Teams call", time: {start: new Date("2025-05-
28T13:50:00Z"), end: new Date("2025-05-28T17:30:00Z")}, acknowledge: "pending"})
```

```
 db.tasks_table.find()
```

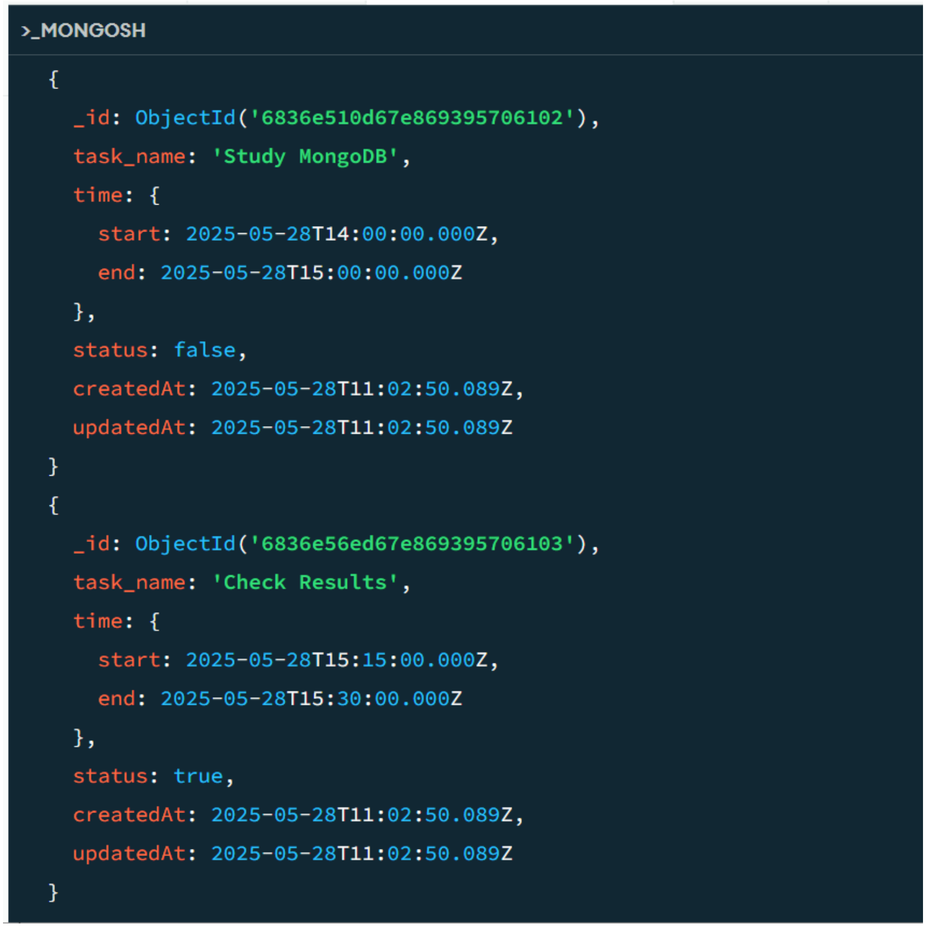
- **Inserting multiple records at a time**

```
db.tasks_table.insertMany([{task_name: "Assignment", time: {start: new Date("2025-05-
28T18:00:00Z"), end: new Date("2025-05-28T19:00:00Z")}, acknowledge: "pending"},
{task_name: "Lunch break", time: {start: new Date("2025-05-28T13:00:00Z"), end: new
Date("2025-05-28T13:30:00Z")}, acknowledge: "pending"}])
```

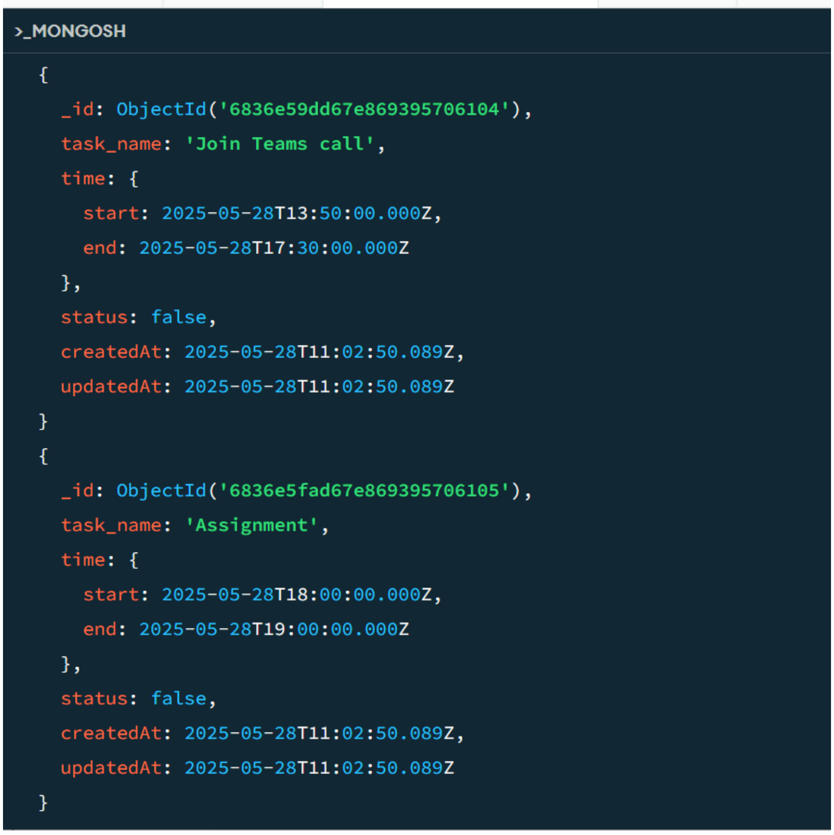
```
db.tasks_table.find()
```



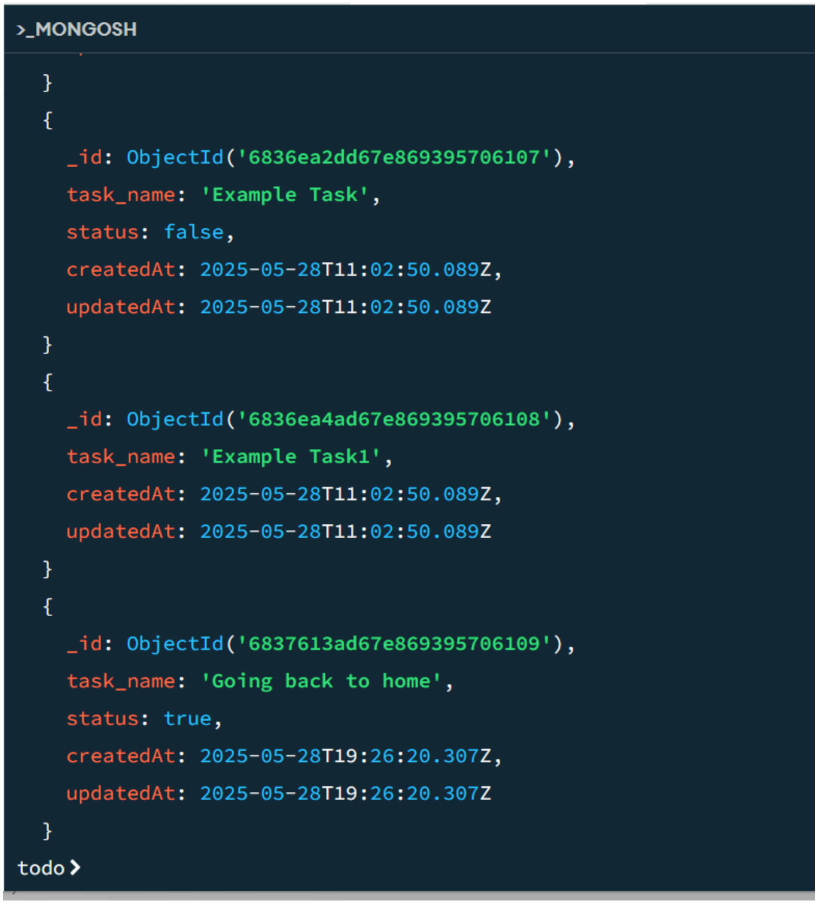
```
>_MONGOSH
> db.tasks_table.find()
< {
    _id: ObjectId('6836e401d67e8693957060ff'),
    task_name: 'Attend Class',
    time: {
      start: 2025-05-28T10:00:00.000Z,
      end: 2025-05-28T18:00:00.000Z
    },
    status: false,
    createdAt: 2025-05-28T11:02:50.089Z,
    updatedAt: 2025-05-28T11:02:50.089Z
  }
  {
    _id: ObjectId('6836e4d5d67e869395706100'),
    task_name: 'Submit Assignment',
    time: {
      start: 2025-05-28T06:00:00.000Z,
      end: 2025-05-28T06:30:00.000Z
    },
    status: true,
    createdAt: 2025-05-28T11:02:50.089Z,
    updatedAt: 2025-05-28T11:02:50.089Z
```



```
>_MONGOSH
  {
    _id: ObjectId('6836e510d67e869395706102'),
    task_name: 'Study MongoDB',
    time: {
      start: 2025-05-28T14:00:00.000Z,
      end: 2025-05-28T15:00:00.000Z
    },
    status: false,
    createdAt: 2025-05-28T11:02:50.089Z,
    updatedAt: 2025-05-28T11:02:50.089Z
  }
  {
    _id: ObjectId('6836e56ed67e869395706103'),
    task_name: 'Check Results',
    time: {
      start: 2025-05-28T15:15:00.000Z,
      end: 2025-05-28T15:30:00.000Z
    },
    status: true,
    createdAt: 2025-05-28T11:02:50.089Z,
    updatedAt: 2025-05-28T11:02:50.089Z
  }
```



```
  {
    _id: ObjectId('6836e59dd67e869395706104'),
    task_name: 'Join Teams call',
    time: {
      start: 2025-05-28T13:50:00.000Z,
      end: 2025-05-28T17:30:00.000Z
    },
    status: false,
    createdAt: 2025-05-28T11:02:50.089Z,
    updatedAt: 2025-05-28T11:02:50.089Z
  }
  {
    _id: ObjectId('6836e5fad67e869395706105'),
    task_name: 'Assignment',
    time: {
      start: 2025-05-28T18:00:00.000Z,
      end: 2025-05-28T19:00:00.000Z
    },
    status: false,
    createdAt: 2025-05-28T11:02:50.089Z,
    updatedAt: 2025-05-28T11:02:50.089Z
  }
```



```
  }
  {
    _id: ObjectId('6836ea2dd67e869395706107'),
    task_name: 'Example Task',
    status: false,
    createdAt: 2025-05-28T11:02:50.089Z,
    updatedAt: 2025-05-28T11:02:50.089Z
  }
  {
    _id: ObjectId('6836ea4ad67e869395706108'),
    task_name: 'Example Task1',
    createdAt: 2025-05-28T11:02:50.089Z,
    updatedAt: 2025-05-28T11:02:50.089Z
  }
  {
    _id: ObjectId('6837613ad67e869395706109'),
    task_name: 'Going back to home',
    status: true,
    createdAt: 2025-05-28T19:26:20.307Z,
    updatedAt: 2025-05-28T19:26:20.307Z
  }
todo >
```

- **Changing some acknowledge fields of a records to “status”**

  ```
  db.tasks_table.updateMany({ acknowledge: "done" }, { $set: { acknowledge: true } })
  ```

- **Changing “status” pending or done to Boolean true or false**

```
db.tasks_table.updateMany({ acknowledge: "pending" }, { $set: { acknowledge: false } })

db.tasks_table.find()

db.tasks_table.updateMany({ acknowledge: { $exists: true } }, { $rename: { "acknowledge":
"status" } })

db.tasks_table.find()

db.tasks.updateMany({ status: "done" }, { $set: { status: true } })

db.tasks_table.find()

db.tasks_table.updateMany({ status: "done" }, { $set: { status: true } })

db.tasks_table.find()

db.tasks_table.updateMany({ status: "pending" }, { $set: { status: false } })

db.tasks_table.find()

db.tasks_table.find().pretty()
```

- Setting Default status False

```
db.tasks_table.insertOne({task_name: "Example Task", status: false})

db.tasks_table.find()

db.tasks_table.insertOne({task_name: "Example Task1"})

db.tasks_table.find()
```

- **Adding “createdAt” and “updatedAt” field to records**

```
db.tasks_table.updateMany({}, {$set: {createdAt: new Date(), updatedAt: new Date()}})

db.tasks_table.find()
```

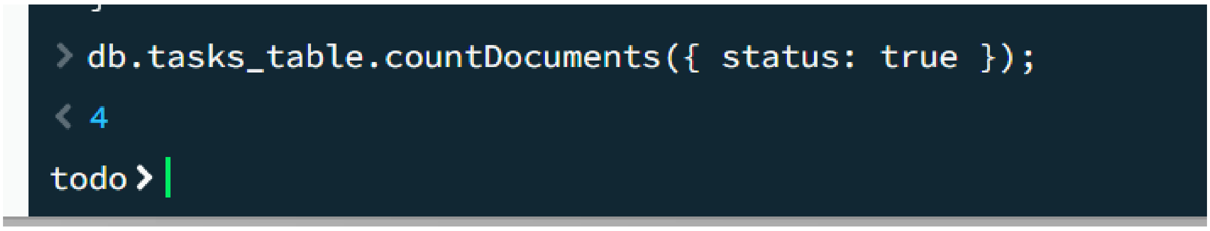
- **Altering the status of a record and changing the updatedAt field**

```
db.tasks_table.updateOne({ task_name:'Lunch Break' }, {$set: {status: true, updatedAt: new
Date()}})

db.tasks_table.find()

db.tasks_table.updateOne({ task_name:"Lunch Break" }, {$set: {status: true, updatedAt: new
Date()}})

db.tasks_table.find()
```

db.tasks_table.updateOne({ task_name: "Lunch break" }, {$set: {status: true, updatedAt: new Date()}})

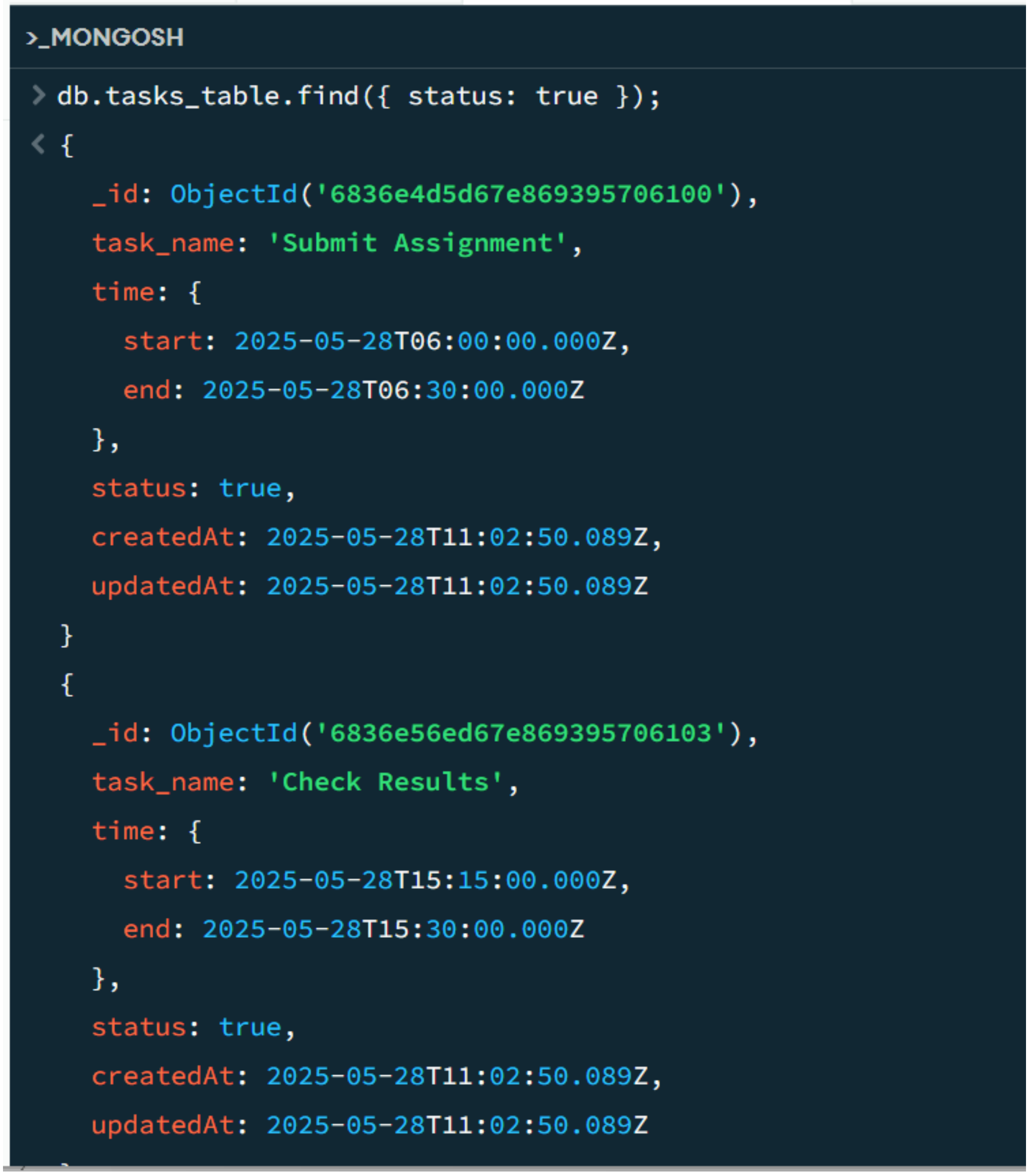
db.tasks_table.find()

To find the no of records with status “True”



```
> db.tasks_table.countDocuments({ status: true });
< 4
todo >
```

To find which records are with status “True”

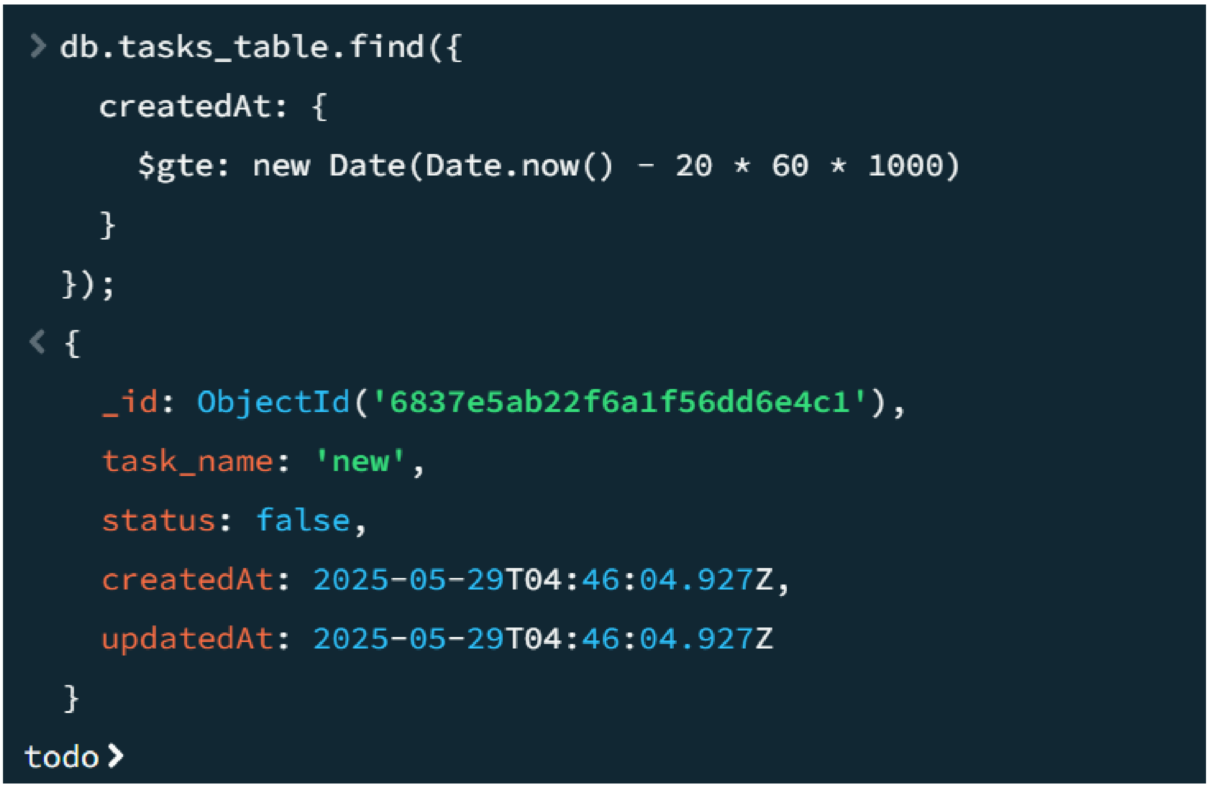


```
>_MONGOSH
> db.tasks_table.find({ status: true });
< {
    _id: ObjectId('6836e4d5d67e869395706100'),
    task_name: 'Submit Assignment',
    time: {
      start: 2025-05-28T06:00:00.000Z,
      end: 2025-05-28T06:30:00.000Z
    },
    status: true,
    createdAt: 2025-05-28T11:02:50.089Z,
    updatedAt: 2025-05-28T11:02:50.089Z
  }
  {
    _id: ObjectId('6836e56ed67e869395706103'),
    task_name: 'Check Results',
    time: {
      start: 2025-05-28T15:15:00.000Z,
      end: 2025-05-28T15:30:00.000Z
    },
    status: true,
    createdAt: 2025-05-28T11:02:50.089Z,
    updatedAt: 2025-05-28T11:02:50.089Z
```

- **To get the records which are created in last 20mins**

```
  db.tasks_table.find({createdAt: {
  $gte: new Date(Date.now() - 20 * 60 * 1000)}
});
```

here Date.now() gives the current time in milliseconds so we are subtracting 20min by converting into milliseconds,to get the records which are created greater than or equal to 20minutes



```
> db.tasks_table.find({
    createdAt: {
      $gte: new Date(Date.now() - 20 * 60 * 1000)
    }
  });
< {
    _id: ObjectId('6837e5ab22f6a1f56dd6e4c1'),
    task_name: 'new',
    status: false,
    createdAt: 2025-05-29T04:46:04.927Z,
    updatedAt: 2025-05-29T04:46:04.927Z
  }
todo>
```