## -- To create and use database:

```
use databaseName
```

#### -- To create collection:

```
db.createCollection("collectionName")
```

#### -- users Collection:

## -- codeKata Collection:

```
[
{ "user_email": "alice@example.com", "problems_solved": 15, "date": "2023-10-01" },
{ "user_email": "bob@example.com", "problems_solved": 25, "date": "2023-10-02" },
{ "user_email": "charlie@example.com", "problems_solved": 10, "date": "2023-10-03" },
{ "user_email": "david@example.com", "problems_solved": 5, "date": "2023-10-04" },
{ "user_email": "eva@example.com", "problems_solved": 20, "date": "2023-10-05" },
{ "user_email": "frank@example.com", "problems_solved ": 30, "date": "2023-10-06" },
{ "user_email": "grace@example.com", "problems_solved": 18, "date": "2023-10-07" },
{ "user_email": "hank@example.com", "problems_solved": 12, "date": "2023-10-08" },
{ "user_email": "ivy@example.com", "problems_solved": 22, "date": "2023-10-09" },
{ "user_email": "jack@example.com", "problems_solved": 28, "date": "2023-10-10" }
]
```

## -- attendance Collection:

```
{ "user_email": "alice@example.com", "attendance": [{ "date": "2023-10-01", "status": "present" }, { "date": "2023-10-05", "status { "user_email": "bob@example.com", "attendance": [{ "date": "2023-10-01", "status": "present" }, { "date": "2023-10-05", "status { "user_email": "charlie@example.com", "attendance": [{ "date": "2023-10-01", "status": "present" }, { "date": "2023-10-03", "status { "user_email": "david@example.com", "attendance": [{ "date": "2023-10-01", "status": "absent" }, { "date": "2023-10-04", "status { "user_email": "eva@example.com", "attendance": [{ "date": "2023-10-01", "status": "present" }, { "date": "2023-10-06", "status { "user_email": "frank@example.com", "attendance": [{ "date": "2023-10-01", "status": "present" }, { "date": "2023-10-08", "status { "user_email": "grace@example.com", "attendance": [{ "date": "2023-10-01", "status": "present" }, { "date": "2023-10-08", "status { "user_email": "hank@example.com", "attendance": [{ "date": "2023-10-01", "status": "present" }, { "date": "2023-10-09", "status { "user_email": "ivy@example.com", "attendance": [{ "date": "2023-10-01", "status": "present" }, { "date": "2023-10-10", "status { "user_email": "jack@example.com", "attendance": [{ "date": "2023-10-01", "status": "present" }, { "date": "2023-10-10", "status { "user_email": "jack@example.com", "attendance": [{ "date": "2023-10-01", "status": "present" }, { "date": "2023-10-11", "status { "user_email": "jack@example.com", "attendance": [{ "date": "2023-10-01", "status": "present" }, { "date": "2023-10-11", "status { "user_email": "jack@example.com", "attendance": [{ "date": "2023-10-01", "status": "present" }, { "date": "2023-10-11", "status { "user_email": "jack@example.com", "attendance": [{ "date": "2023-10-01", "status": "present" }, { "date": "2023-10-11", "status { "user_email": "jack@example.com", "attendance": [{ "date": "2023-10-01", "status": "present" }, { "date": "2023-10-11", "status { "user_email": "jack@example.com", "attendance": [{ "date": "2023-10-01", "status": "pr
```

#### -- tasks Collection:

## -- company drives Collection:

# -- mentors Collection:

# Task Queries to Write:

-- 1. Find all the topics and tasks which are thought in the month of October:

```
db.topics.find({ date: { $gte: "2023-10-01", $1te: "2023-10-31" } })
db.tasks.find({ due_date: { $gte: "2023-10-01", $1te: "2023-10-31" } })
```

```
db.company_drives.find({ date: { $gte: "2020-10-15", $1te: "2020-10-31" } })
```

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

```
db.company_drives.find({}, { company_name: 1, participants: 1 })
```

-- 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:

```
db.mentors.find({ mentees_count: { $gt: 15 } })
```

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