# MongoDB Assignment [Deadline: 2025-09-01]

Database Name: user

Collection Name: users

### Data:

[

{

username: "alex\_p",

email: "alex.p@example.com",

age: 28,

country: "USA",

last\_login: ISODate("2023-10-25T10:00:00Z"),

followers: 1200,

interests: ["programming", "hiking", "music"],

profile: { theme: "dark", bio: "Software developer and nature enthusiast." },

devices: [

{ type: "mobile", os: "Android", last\_seen: ISODate("2023-10-25T09:55:00Z") },

{ type: "desktop", os: "Windows", last\_seen: ISODate("2023-10-24T15:30:00Z") }

]

},

{

username: "jane\_doe",

email: "jane.d@workplace.com",

age: 34,

country: "Canada",

last\_login: ISODate("2023-11-01T12:30:00Z"),

followers: 850,

interests: ["travel", "photography", "music"],

profile: { theme: "light" },

subscription: { tier: "premium", start\_date: ISODate("2023-01-01T00:00:00Z") }

},

{

username: "sam\_g",

email: "sam.g@example.com",

age: 22,

country: "UK",

last\_login: ISODate("2023-09-15T18:45:00Z"),

followers: 2500,

interests: ["gaming", "streaming"],

profile: { theme: "dark", bio: "Pro gamer and streamer." },

devices: [

{ type: "desktop", os: "Windows", last\_seen: ISODate("2023-09-15T18:40:00Z") }

]

},

{

username: "chris\_b",

email: "chris.b@inbox.com",

age: 45,

country: "Australia",

last\_login: ISODate("2023-10-30T05:00:00Z"),

followers: 50,

interests: ["gardening", "cooking"],

profile: { theme: "light", bio: "Loves the outdoors." }

},

{

username: "maria\_s",

email: "maria.s@example.com",

age: 31,

country: "Germany",

last\_login: ISODate("2023-11-02T20:00:00Z"),

followers: 1800,

interests: ["art", "history", "travel"],

profile: { theme: "dark", bio: "Museum curator." },

subscription: { tier: "premium", start\_date: ISODate("2022-06-15T00:00:00Z") }

},

{

username: "another\_user",

email: "another@example.com",

age: 29,

country: "USA",

followers: 95,

interests: ["music", "programming"],

profile: "Profile setup pending"

}

]

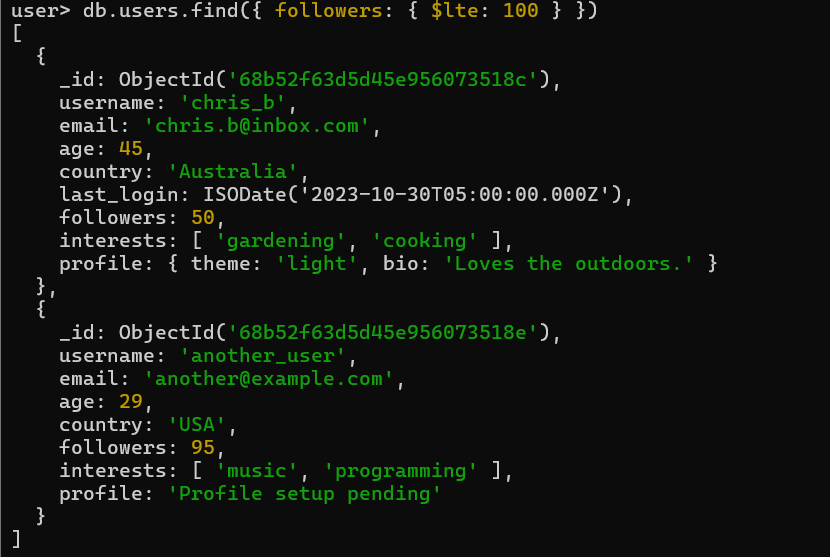
### **Write queries for the given questions**

1. Find users older than 30, but only show their username and country.

Ans: A screen shot of a computer code

AI-generated content may be incorrect.

1. Find users whose follower count is less than or equal to 100.

Ans: 

1. Find all users from 'USA' or 'Canada'.

Ans: A screenshot of a computer program

AI-generated content may be incorrect.

1. Find all users who are NOT from 'USA' or the 'UK'.

Ans : A computer screen shot of a program code

AI-generated content may be incorrect.

1. Find users who are from the 'USA' AND have more than 1000 followers.

Ans: A screenshot of a computer

AI-generated content may be incorrect.

1. Find users who have more than 2000 followers OR are from 'Australia'.

Ans: 

1. Find all users who have a subscription field.

Ans: A computer screen shot of a program

AI-generated content may be incorrect.

1. Find users whose profile field is a string, not an embedded document.

Ans: A screenshot of a computer program

AI-generated content may be incorrect.

1. Find users who are interested in both 'travel' AND 'music'.

Ans : A computer screen shot of a computer code

AI-generated content may be incorrect.

1. Find users who have used a 'mobile' device since October 1st, 2023.

Ans: A screenshot of a computer program

AI-generated content may be incorrect.

1. Find all users whose email address ends with '[**workplace.com**](http://workplace.com)'.

Ans: A computer screen shot of a computer code

AI-generated content may be incorrect.

1. For user sam\_g, add 50 followers and add a new interest 'coding'.

Ans : A screen shot of a computer code

AI-generated content may be incorrect.

1. For all users from the 'USA', rename the followers field to follower\_count.

Ans: A computer screen shot of a black screen

AI-generated content may be incorrect.

1. Attempt to update user new\_user; if they don't exist, insert them with default data.

Ans: A screen shot of a computer program

AI-generated content may be incorrect.

1. Delete all users who have not logged in (*hint: the last\_login field does not exist*).

Ans : 

1. Find users from the 'USA' who are either younger than 25 OR have more than 1500 followers.

Ans: A black screen with white text

AI-generated content may be incorrect.

1. Find all users who have a 'desktop' device that runs 'Windows'.

Ans : A screenshot of a computer program

AI-generated content may be incorrect.

1. Update all users with a 'dark' theme profile by adding a pro\_user: true flag.

Ans : A screen shot of a computer code

AI-generated content may be incorrect.