**Question 1.1**

Create a mongodb database called usersdb.

# Question 1.2

Create a collection called users which has documents with the following attributes:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **\_id** | **fname** | **surname** | **age** | **email** | **carReg** |
| 100 | John | Smith | 33 | jsmith@gmail.com | 131-G-101 |
| 101 | Sean | Murphy | 21 | seanmurph@yahoo.com | 04-WH-235 |
| 102 | Aine | Browne | 23 | abrowne@gmail.com |  |
| 103 | Alan | Murphy | 24 | murpha@hotmail.com | 07-RN-9988 |
| 104 | Sarah | Doyle | 23 | sarah@gmail.com | 142-G-2343 |
| 105 | Bill | Mulligan | 19 | billy123@gmail.com |  |
| 106 | Shane | Kelly | 24 | sk998@yahoo.com |  |
| 107 | Will | Doyle | 19 | doyler123@gmail.com | 10-G-2353 |

**Question 1.3**

Give the command to find all documents in the users collection.

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**Question 1.4**

Give the command to find all documents in the users collection where the age is 19.

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# Question 1.5

Give the command to find all documents in the users collection where the age is greater than 19.

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# Question 1.6

Give the command to find all documents in the users collection where the age is greater than 19 and the user has a car.

****

# Question 1.7

Give the command to find all documents in the users collection where \_id is greater than 104 and age is greater than 20.

****

# Question 1.8

Give the command to find the first document in the users collection where the user has a car.

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# Question 1.9

User 106, Shane, has bought a car with reg 12-G-1234. The following command was run to update the user’s document. Update the users collection to reflect this.

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# Question 1.10

The details for user 107, Will, were entered incorrectly. He has a motor bike instead of a car, so the attribute should be bikeReg, instead of carReg. Update the users collection to reflect this.



**Question 1.11**

Update each user’s age by 1.



# Question 1.12

Add a new attribute *sex*, to each document as follows:

|  |  |
| --- | --- |
| **\_id** | **sex** |
| 100 | M |
| 101 | M |
| 102 | F |
| 103 | M |
| 104 | F |
| 105 | M |
| 106 | M |
| 107 | M |

# Question 1.13

Add a new attribute *title* with the value *Mr.*, to each document where the *sex* is M, and the age is greater than 20:

# Question 1.14

Users 100, John, and 101, Sean have sold their cars. Update the collection to remove the *carReg* attribute from these documents.

**Question 1.15**

Show all users from youngest to oldest, and within that alphabetically by surname.

# Question 1.16

Add an attribute called *credits* to the following documents, with the following values:

|  |  |
| --- | --- |
| **\_id** | **credits** |
| 100 | 5 |
| 101 | 4.2 |
| 104 | 3 |
| 107 | 3.9 |

# Question 1.17

Update the *credits* attribute to 4 in any documents whose *credits* value is currently less than

4.

# Question 1.18

Delete all documents that do not have a *bikeReg* or a *carReg* attribute.