Eman Fathi Intake43

MongoDB Lab2

- 1- run following queries:
 - a- Display all documents in instructors collection
 - b- Display all instructors with salaries greater than 4000 (only show firstName and salary)
 - c- Display all instructors with ages less than or equal 25.
 - d- Display all instructors with city mansoura and sreet number 10 or 14 only display (firstname,address,salary).
 - e- Display all instructors that have js and jquery in their courses (both of them not one of them).
 - f- Display number of courses for each instructor and display first name with number of courses.

```
mona 4
mazen 3
badr 4
ebtesam 6
noha 4
mona 4
mazen 3
ebtesam 5
```

g- Write mongodb query to get all instructors that have firstName and lastName properties, sort them by firstName ascending then by lastName descending and finally display their data FullName and age

```
FullName: badr ahmed, Age: 22
FullName: ebtesam hesham, Age: 21
FullName: ebtesam ahmed, Age: 28
FullName: mazen mohammed, Age: 21
FullName: mazen ali, Age: 30
FullName: mona mohammed, Age: 21
FullName: mona ahmed, Age: 21
FullName: noha hesham, Age: 21
```

Note: use mongoDB sort function

- h- Delete instructor with first name "ebtesam" and has only 5 courses in courses array
- i- Add active property to all instructors and set its value to true.
- j- Change "EF" course to "jquery" for "mazen mohammed" instructor (without knowing EF Index in courses array)
- k- Add jquery course for "noha hesham".
- I- Remove courses property for "ahmed mohammed" instructor



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m- Decrease salary by 500 for all instructors that has only 3 courses in their list (\$inc)

- n- Rename address field for all instructors to fullAddress.
- o- Change street number for noha hesham to 20
- 2- Create workers collection with the following Schema validation (JsonSchema Validation)

Required Fields: fullName, salary and age

Optional Fields: locations

No additional properties allowed

- a- fullName should be string
- b- Age should be number between 25 and 45,
- c- Salary is required and should be greater than 2000
- d- Locations is optional and should be array of string, array length can't be zero (worker has at least one location to work), locations should be unique in array

Check your Schema