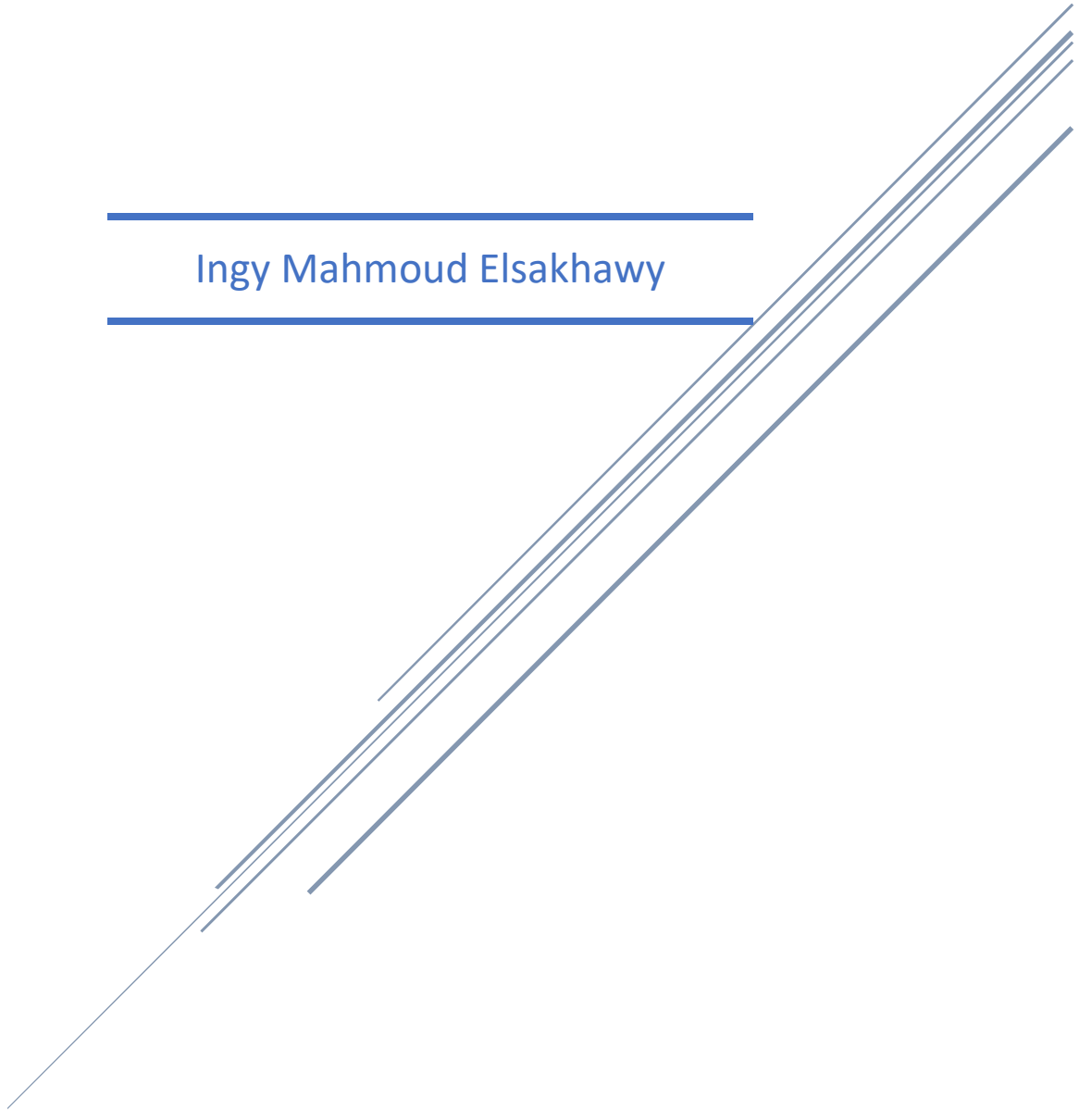


MONGODB

Lab1

Ingy Mahmoud Elsakhawy

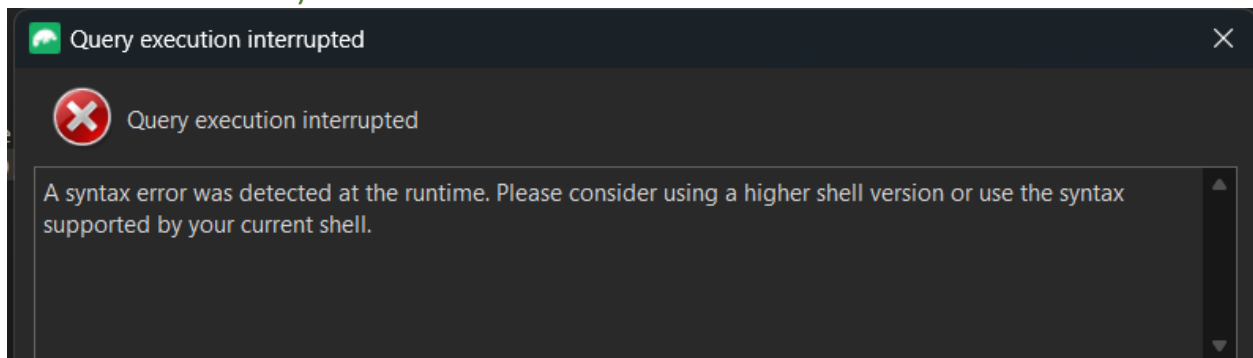


Lab1 MongoDB

- 6) Start create new collection named instructors following with inserts
a-Insert your own data.

```
db.Instructors.insertOne({firstName:"Ingy",lastName:"Elsakhawy", gender:"F"});
```

- b. Insert instructor without firstName and LastName (mongowill raise an error or not?)



- c. Using array contained with lab folder instructors.txt file.

```
db.Instructors.insertMany(instructorsArray);
```

- 7) Try the following queries: (all queries should be run using find or findOne)

- a. Display all documents for instructors collection

Instructors > firstName							
_id	firstName	lastName	gender	age	salary	address	courses
id 6043d23c63d9...	Ingy	Elsakhawy	F				
6	noha	hesham		21	3500	{ 3 fields }	[4 elements]
7	mona	ahmed		21	3600	{ 3 fields }	[4 elements]
8	mazen	mohammed		21	7040	{ 3 fields }	[3 elements]
9	ebtesam	hesham		21	7500	{ 3 fields }	[5 elements]

- b. Display all instructors with fields first Name , last Name and address.

Instructors > firstName				
_id	firstName	lastName	address	
id 6043d23c63d9...	Ingy	Elsakhawy		
6	noha	hesham	{ 3 fields }	
7	mona	ahmed	{ 3 fields }	
8	mazen	mohammed	{ 3 fields }	
9	ebtesam	hesham	{ 3 fields }	

c. Display first Name and city(not full address)for instructors with age 21.

```
33 db.Instructors.find({age:21},{firstName:1,"address.city":1});
34
35
```

Raw shell output Find Query (line 33) ✕

50 Documents 1 to 4

Instructors > firstName

_id	firstName	address
6	noha	{ 1 fields }
7	mona	{ 1 fields }
8	mazen	{ 1 fields }
9	ebtesam	{ 1 fields }

d. Display first Name and age for instructors live in Mansoura city.

```
33 db.Instructors.find({"address.city":"mansoura"},{firstName:1,age:1});
34
35
```

Raw shell output Find Query (line 33) ✕

50 Documents 1 to 1

Instructors > firstName

_id	firstName	age
9	ebtesam	21

e. Try to run these commands

```
1-db.instructors.find({firstName:"ryhab"},{lastName:"farouq"},{firstName:1,lastName:1})
```

Explain the output!!

Using the exact above command leads to empty output as there is no data for either firstName as rehab nor lastName as farouq.

After editing the firstName field and the lastName field using the same format, the output will be as follows. It displayed an unexpected output because we placed two conditions.

```
34 db.Instructors.find({firstName:"noha"},{lastName:"hesham"},{firstName:1,lastName:1});
```

Raw shell output Find Query (line 34) ✖

50 Documents 1 to 1

Instructors > lastName

_id	lastName
6	hesham

2-db.instructors.find({courses:"mvc"},{firstName:1,courses:1}) Explain the output!

```
35 db.Instructors.find({courses:"mvc"},{firstName:1,courses:1});
```

Raw shell output Find Query (line 35) ✖

50 Documents 1 to 3

Instructors > firstName

_id	firstName	courses
6	noha	[4 elements]
7	mona	[4 elements]
8	mazen	[3 elements]

That command displayed the firstName field and the Courses for students who took MVC as a subject.