

DATABASE SYSTEMS LAB



LAB TASK # 11

Submitted By

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MongoDB Introduction

Exercises

1. Create a database named your rollno_section (i.e. P20_8784_4A).

```
> use P19-0030_4B;
switched to db P19-0030_4B
> db;
P19-0030_4B
>
```

2. Create a collection named users.

```
> db.createCollection("users");
{ "ok" : 1 }
> show collections;
users
>
```

3. Insert the following record in the user's collection.

```
> db.user.insert({username: "Ali",
... password:"def321",
... email:"ali123@yahoo.com",
... DOB:"1996-03-04",
... Address:"Peshawar",
... Contact:"+923332233322"
... })
WriteResult({ "nInserted" : 1 })
```

```
> db.user.insert({
...   username:"Haroon",
...   password: "fast123",
...   email: "haroon@gmail.com",
...   DOB : "-",
...   Address:"Karachi",
...   Contact:"-",
... })
WriteResult({ "nInserted" : 1 })
>
```

```
WriteResult({ "nInserted" : 1 })
> db.user.insert({
...   username: "Zain",
...   password: "Abc123",
...   email: "zain@gmail.com",
...   DOB: "1997-02-13",
...   Address:"Islamabad",
...   Contact: "-"
... })
WriteResult({ "nInserted" : 1 })
>
```

```
> db.user.insert({ username:"Atif", password:"Qwe123", email: "atif@gmail.com",
DOB:"-", Address:"Islamabad", Contact:"+923139834276" })
WriteResult({ "nInserted" : 1 })
>
```

4. Show all users list using find command.

```
> db.user.find().pretty()
{ "_id" : ObjectId("6281531716ff8996ce46ed63"), "username" : "Ali" }
{
  "_id" : ObjectId("6281540c16ff8996ce46ed64"),
  "username" : "Ali",
  "password" : "def321",
  "email" : "ali123@yahoo.com",
  "DOB" : "1996-03-04",
  "Address" : "Peshawar",
  "Contact" : "+923332233322"
}
{
  "_id" : ObjectId("6281555516ff8996ce46ed65"),
  "username" : "Haroon",
  "password" : "fast123",
  "email" : "haroon@gmail.com",
  "DOB" : "-",
  "Address" : "Karachi",
  "Contact" : "-"
}
{
  "_id" : ObjectId("6281561916ff8996ce46ed66"),
  "username" : "Zain",
  "password" : "Abc123",
  "email" : "zain@gmail.com",
  "DOB" : "1997-02-13",
  "Address" : "Islamabad",
  "Contact" : "-"
}
{
  "_id" : ObjectId("628156d416ff8996ce46ed67"),
  "username" : "Atif",
  "password" : "Qwe123",
  "email" : "atif@gmail.com",
  "DOB" : "-",
  "Address" : "Islamabad",
  "Contact" : "+923139834276"
}
```

5. Show all users who lives in Islamabad.

```
> db.user.find({Address:"Islamabad"})
{ "_id" : ObjectId("6281561916ff8996ce46ed66"), "username" : "Zain", "password" : "Abc123",
"email" : "zain@gmail.com", "DOB" : "1997-02-13", "Address" : "Islamabad", "Contact" : "-" }

{ "_id" : ObjectId("628156d416ff8996ce46ed67"), "username" : "Atif", "password" : "Qwe123",
"email" : "atif@gmail.com", "DOB" : "-", "Address" : "Islamabad", "Contact" : "+923139834276"
}
```

6. Show all the users who lives in Peshawar or in Karachi.

```
> db.user.find({Address: {$in:["Peshawar","Karachi"]}})
{ "_id" : ObjectId("6281540c16ff8996ce46ed64"), "username" : "Ali", "password" : "def321", "email" : "
ali123@yahoo.com", "DOB" : "1996-03-04", "Address" : "Peshawar", "Contact" : "+923332233322" }

{ "_id" : ObjectId("6281555516ff8996ce46ed65"), "username" : "Haroon", "password" : "fast123", "email"
: "haroon@gmail.com", "DOB" : "-", "Address" : "Karachi", "Contact" : "-" }
```