```
Warning: the "mongo" shell has been superseded by "mongosh",
which delivers improved usability and compatibility.The "mongo" shell has been deprecated and will be removed in
an upcoming release.
We recommend you begin using "mongosh".
For installation instructions, see
https://docs.mongodb.com/mongodb-shell/install/
=================
---
The server generated these startup warnings when booting:
    2021-11-21T09:06:32.899+03:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
---
---
    Enable MongoDB's free cloud-based monitoring service, which will then receive and display
    metrics about your deployment (disk utilization, CPU, operation statistics, etc).

    The monitoring data will be available on a MongoDB website with a unique URL accessible to you
    and anyone you share the URL with. MongoDB may use this information to make product
    improvements and to suggest MongoDB products and deployment options to you.

    To enable free monitoring, run the following command: db.enableFreeMonitoring()
    To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
---
> show dbs
admin   0.000GB
blog    0.000GB
config  0.000GB
local   0.000GB
> use resturants
switched to db resturants
> db
resturants
>
```

```
> db.createCollection("resturant")
{ "ok" : 1 }
>
```

- insert one resturant into the resturants collection,

```
> db.insertOne({"name":"Albaik" , "City":"Jeddah" , "Score":"10"})
uncaught exception: TypeError: db.insertOne is not a function :
@(shell):1:1
> db.resturant.insertOne({"name":"Albaik" , "City":"Jeddah", "Score":"10"})
{
        "acknowledged" : true,
        "insertedId" : ObjectId("619b75e9fe9b06dbb7f81ed5")
}
>
```

- insert many resturants into the resturants collection:

```
> db.resturant.insertMany([{ "name": "AlTazaj","city": "Makkah", "score": 9 },
... { "name": "KFC","city": "AlMadinah", "score": 8 },
... { "name": "Dominos pizza","city": "Jeddah", "score": 9.5 },
... { "name": "Baba Khan","city": "Jeddah", "score": 9 },
... { "name": "Krispy Kreme","city": "Riyadh", "score": 8.5 }
... ])
{
        "acknowledged" : true,
        "insertedIds" : [
                ObjectId("619b7864fe9b06dbb7f81ed9"),
                ObjectId("619b7864fe9b06dbb7f81eda"),
                ObjectId("619b7864fe9b06dbb7f81edb"),
                ObjectId("619b7864fe9b06dbb7f81edc"),
                ObjectId("619b7864fe9b06dbb7f81edd")
        ]
}
```

- Display all the documents in the collection restaurants.

```
> db.resturant.find({})
{ "_id" : ObjectId("619b7864fe9b06dbb7f81ed9"), "name" : "AlTazaj", "city" : "Makkah", "score" : 9 }
{ "_id" : ObjectId("619b7864fe9b06dbb7f81eda"), "name" : "KFC", "city" : "AlMadinah", "score" : 8 }
{ "_id" : ObjectId("619b7864fe9b06dbb7f81edb"), "name" : "Dominos pizza", "city" : "Jeddah", "score" : 9.5 }
{ "_id" : ObjectId("619b7864fe9b06dbb7f81edc"), "name" : "Baba Khan", "city" : "Jeddah", "score" : 9 }
{ "_id" : ObjectId("619b7864fe9b06dbb7f81edd"), "name" : "Krispy Kreme", "city" : "Riyadh", "score" : 8.5 }
{ "_id" : ObjectId("619b79c4fe9b06dbb7f81ede"), "name" : "Albaik", "City" : "Jeddah", "Score" : "10" }
```

```
> db.resturant.find({})
{ "_id" : ObjectId("619b7864fe9b06dbb7f81ed9"), "name" : "AlTazaj", "city" : "Makkah", "score" : 9 }
{ "_id" : ObjectId("619b7864fe9b06dbb7f81eda"), "name" : "KFC", "city" : "AlMadinah", "score" : 8 }
{ "_id" : ObjectId("619b7864fe9b06dbb7f81edb"), "name" : "Dominos pizza", "city" : "Jeddah", "score" : 9.5 }
{ "_id" : ObjectId("619b7864fe9b06dbb7f81edc"), "name" : "Baba Khan", "city" : "Jeddah", "score" : 9 }
{ "_id" : ObjectId("619b7864fe9b06dbb7f81edd"), "name" : "Krispy Kreme", "city" : "Riyadh", "score" : 8.5 }
{ "_id" : ObjectId("619b79c4fe9b06dbb7f81ede"), "name" : "Albaik", "City" : "Jeddah", "Score" : "10" }
> db.resturant.find({} , {_id:0})
{ "name" : "AlTazaj", "city" : "Makkah", "score" : 9 }
{ "name" : "KFC", "city" : "AlMadinah", "score" : 8 }
{ "name" : "Dominos pizza", "city" : "Jeddah", "score" : 9.5 }
{ "name" : "Baba Khan", "city" : "Jeddah", "score" : 9 }
{ "name" : "Krispy Kreme", "city" : "Riyadh", "score" : 8.5 }
{ "name" : "Albaik", "City" : "Jeddah", "Score" : "10" }
```

- Display all the restaurants which is in Jeddah city.

```
(shell):1:1
db.resturant.find({"city":"Jeddah" , "city":1})
db.resturant.find({"city":"Jeddah" })
"_id" : ObjectId("619b7864fe9b06dbb7f81edb"), "name" : "Dominos pizza", "city" : "Jeddah", "score" : 9.5 }
"_id" : ObjectId("619b7864fe9b06dbb7f81edc"), "name" : "Baba Khan", "city" : "Jeddah", "score" : 9 }
```

- Display all the restaurants which is achieved a score grater than or equal to 9.

```
> db.resturant.find({"score":{$gte:9}}).pretty().pretty()
{
    "_id" : ObjectId("619b7864fe9b06dbb7f81ed9"),
    "name" : "AlTazaj",
    "city" : "Makkah",
    "score" : 9
}
{
    "_id" : ObjectId("619b7864fe9b06dbb7f81edb"),
    "name" : "Dominos pizza",
    "city" : "Jeddah",
    "score" : 9.5
}
{
    "_id" : ObjectId("619b7864fe9b06dbb7f81edc"),
    "name" : "Baba Khan",
    "city" : "Jeddah",
    "score" : 9
}
```

- Display all the restaurants which is achieved a score grater than or equal to 8 but less than 9.5.

```
}
> db.resturant.find({"score":{$gte:8 , $lt:9.5}}).pretty()
{
    "_id" : ObjectId("619b7864fe9b06dbb7f81ed9"),
    "name" : "AlTazaj",
    "city" : "Makkah",
    "score" : 9
}
{
    "_id" : ObjectId("619b7864fe9b06dbb7f81eda"),
    "name" : "KFC",
    "city" : "AlMadinah",
    "score" : 8
}
{
    "_id" : ObjectId("619b7864fe9b06dbb7f81edc"),
    "name" : "Baba Khan",
    "city" : "Jeddah",
    "score" : 9
}
{
    "_id" : ObjectId("619b7864fe9b06dbb7f81edd"),
    "name" : "Krispy Kreme",
    "city" : "Riyadh",
    "score" : 8.5
}
> db.resturant.find({"name":{$regex:/^Al/}}).pretty()
{
    "_id" : ObjectId("619b7864fe9b06dbb7f81ed9"),
    "name" : "AlTazaj",
    "city" : "Makkah",
    "score" : 9
}
{
    "_id" : ObjectId("619b79c4fe9b06dbb7f81ede"),
    "name" : "Albaik",
    "City" : "Jeddah",
    "Score" : "10"
}
```

- Display all the restaurants which is in Jeddah and achieved a score grater than or equal to 9.5.

```
موجه الأوامر - mongo
@(shell):1:34
> db.resturant.find({"city":"Jeddah","score":{$gte:9.5}}).pretty()
{
    "_id" : ObjectId("619b7864fe9b06dbb7f81edb"),
    "name" : "Dominos pizza",
    "city" : "Jeddah",
    "score" : 9.5
}
> 
```

- Display all the restaurants which is contain 'Al' as first two letters of its name.

```
> db.resturant.find({"name":($regex:/^Al/)}).pretty()
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81ed9"),
        "name" : "AlTazaj",
        "city" : "Makkah",
        "score" : 9
}
{
        "_id" : ObjectId("619b79c4fe9b06dbb7f81ede"),
        "name" : "Albaik",
        "City" : "Jeddah",
        "Score" : "10"
}
>
```

- Display all the restaurants which is contains 'k' somewhere in its name, either k is big or small.

```
> db.resturant.find({"name":($regex:/[k]/i)}).pretty()
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81eda"),
        "name" : "KFC",
        "city" : "AlMadinah",
        "score" : 8
}
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81edc"),
        "name" : "Baba Khan",
        "city" : "Jeddah",
        "score" : 9
}
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81edd"),
        "name" : "Krispy Kreme",
        "city" : "Riyadh",
        "score" : 8.5
}
{
        "_id" : ObjectId("619b79c4fe9b06dbb7f81ede"),
        "name" : "Albaik",
        "City" : "Jeddah",
        "Score" : "10"
}
```

- Display all the restaurants by arranged the name of the restaurants in ascending order.

```
> db.resturant.find({}).sort({"name":1}).pretty()
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81ed9"),
        "name" : "AlTazaj",
        "city" : "Makkah",
        "score" : 9
}
{
        "_id" : ObjectId("619b79c4fe9b06dbb7f81ede"),
        "name" : "Albaik",
        "City" : "Jeddah",
        "Score" : "10"
}
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81edc"),
        "name" : "Baba Khan",
        "city" : "Jeddah",
        "score" : 9
}
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81edb"),
        "name" : "Dominos pizza",
        "city" : "Jeddah",
        "score" : 9.5
}
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81eda"),
        "name" : "KFC",
        "city" : "AlMadinah",
        "score" : 8
}
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81edd"),
        "name" : "Krispy Kreme",
        "city" : "Riyadh",
        "score" : 8.5
}
```

- Update Dominos pizza resturant which is in Jeddah to be in AlMadinah, and the name to Dominos Pizza, and the score to 10

```
        score : 8.5
> db.resturant.updateOne({name:"Dominos pizza"},{$set:{"city":"almadinah" , "name":"Dominos Pizza" , "score":"10"}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
>
```

```
> db.resturant.updateOne({name:"Dominos pizza"},{$set:{"city":"almadinah" , "name":"Dominos Pizza" , "score":"10"}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
> db.resturant.find({})pretty()
uncaught exception: SyntaxError: unexpected token: identifier :
@(shell):1:21
> db.resturant.find({}).pretty()
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81ed9"),
        "name" : "AlTazaj",
        "city" : "Makkah",
        "score" : 9
}
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81eda"),
        "name" : "KFC",
        "city" : "AlMadinah",
        "score" : 8
}
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81edb"),
        "name" : "Dominos Pizza",
        "city" : "almadinah",
        "score" : "10"
}
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81edc"),
        "name" : "Baba Khan",
        "city" : "Jeddah",
        "score" : 9
}
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81edd"),
        "name" : "Krispy Kreme",
        "city" : "Riyadh",
        "score" : 8.5
}
{
        "_id" : ObjectId("619b79c4fe9b06dbb7f81ede"),
        "name" : "Albaik",
        "City" : "Jeddah",
        "Score" : "10"
}
```

- Delete the KFC restaurant

```
> db.resturant.deleteOne({name:"KFC"})
{ "acknowledged" : true, "deletedCount" : 1 }
```

```
> db.resturant.deleteOne({name:"KFC"})
{ "acknowledged" : true, "deletedCount" : 1 }
> db.resturant.find({}).pretty()
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81ed9"),
        "name" : "AlTazaj",
        "city" : "Makkah",
        "score" : 9
}
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81edb"),
        "name" : "Dominos Pizza",
        "city" : "almadinah",
        "score" : "10"
}
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81edc"),
        "name" : "Baba Khan",
        "city" : "Jeddah",
        "score" : 9
}
{
        "_id" : ObjectId("619b7864fe9b06dbb7f81edd"),
        "name" : "Krispy Kreme",
        "city" : "Riyadh",
        "score" : 8.5
}
{
        "_id" : ObjectId("619b79c4fe9b06dbb7f81ede"),
        "name" : "Albaik",
        "City" : "Jeddah",
        "Score" : "10"
}
```