

Mongo DB shell

- Create a collection called restaurants.

```
Homework1> db.createCollection('restaurants')
{ ok: 1 }
```

- insert one restaurant into the restaurants collection, for example:

```
Homework1> db.restaurants.insert({"name":"Albaik", "city":"Riyadh","score":10})
deprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.

{ acknowledged: true,
  insertedIds: { '0': ObjectId("619b6cf2ad45679a095f0ef4") } }
```

- insert many restaurants into the restaurants collection, for example:

```
> db.restaurants.insertMany([{"name":"AlTazaj",city:"Makkah",score:9},{name:"KFC",city:"AlMadinah",score:8}])
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("619b731f82b7e3408b1f9ffa"),
    ObjectId("619b731f82b7e3408b1f9ffb")
  ]
}
```

- Display all the documents in the collection restaurants.

```
> db.restaurants.find({})
{ "_id" : ObjectId("619b6cf2ad45679a095f0ef4"), "name" : "Albaik", "city" : "Riyadh", "score" : 10 }
{ "_id" : ObjectId("619b6e48ad45679a095f0ef5"), "name" : "AlTazaj", "city" : "Makkah", "score" : 9 }
{ "_id" : ObjectId("619b6e88ad45679a095f0ef6"), "name" : "KFC", "city" : "AlMadinah", "score" : 8 }
{ "_id" : ObjectId("619b6ec7ad45679a095f0ef7"), "name" : "Dominos pizza", "city" : "Jeddah", "score" : 9.5 }
{ "_id" : ObjectId("619b6efead45679a095f0ef8"), "name" : "Baba Khan", "city" : "Jeddah", "score" : 9 }
{ "_id" : ObjectId("619b6f32ad45679a095f0ef9"), "name" : "Krispy Kreme", "city" : "Riyadh", "score" : 8.5 }
>
```

- Display all the documents in the collection restaurants, but exclude the field `_id`.

```
> db.restaurants.find({},{_id:0})
{ "name" : "Albaik", "city" : "Riyadh", "score" : 10 }
{ "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 }
>
```

- Display all the restaurants which is in Jeddah city.

```
> db.restaurants.find({city:"Jeddah"},{})
{ "_id" : ObjectId("619b6ec7ad45679a095f0ef7"), "name" : "Dominos pizza", "city" : "Jeddah", "score" : 9.5 }
{ "_id" : ObjectId("619b6efead45679a095f0ef8"), "name" : "Baba Khan", "city" : "Jeddah", "score" : 9 }
>
```

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

```
> db.restaurants.find({score:{$gte:9}})
{ "_id" : ObjectId("619b6cf2ad45679a095f0ef4"), "name" : "Albaik", "city" : "Riyadh", "score" : 10 }
{ "_id" : ObjectId("619b6e48ad45679a095f0ef5"), "name" : "AlTazaj", "city" : "Makkah", "score" : 9 }
{ "_id" : ObjectId("619b6ec7ad45679a095f0ef7"), "name" : "Dominos pizza", "city" : "Jeddah", "score" : 9.5 }
{ "_id" : ObjectId("619b6efead45679a095f0ef8"), "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.restaurants.find({score:{$gte:8 , $lt:9.5}},{_id:0})
{ "name" : "AlTazaj", "city" : "Makkah", "score" : 9 }
{ "name" : "KFC", "city" : "AlMadinah", "score" : 8 }
{ "name" : "Baba Khan", "city" : "Jeddah", "score" : 9 }
{ "name" : "Krispy Kreme", "city" : "Riyadh", "score" : 8.5 }
>
```

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

```
> db.restaurants.find({score:{$gte:9.5},city:"Jeddah"},{})
{ "_id" : ObjectId("619b6ec7ad45679a095f0ef7"), "name" : "Dominos pizza", "city" : "Jeddah", "score" : 9.5 }
>
```

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

```
> db.restaurants.find({"name":{"regex":"Al"}})
{ "_id" : ObjectId("619b6cf2ad45679a095f0ef4"), "name" : "Albaik", "city" : "Riyadh", "score" : 10 }
{ "_id" : ObjectId("619b6e48ad45679a095f0ef5"), "name" : "AlTazaj", "city" : "Makkah", "score" : 9 }
>
```

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

```
> db.restaurants.find({"name":/.*/i})
{ "_id" : ObjectId("619b6cf2ad45679a095f0ef4"), "name" : "Albaik", "city" : "Riyadh", "score" : 10 }
{ "_id" : ObjectId("619b6e88ad45679a095f0ef6"), "name" : "KFC", "city" : "AlMadinah", "score" : 8 }
{ "_id" : ObjectId("619b6efead45679a095f0ef8"), "name" : "Baba Khan", "city" : "Jeddah", "score" : 9 }
{ "_id" : ObjectId("619b6f32ad45679a095f0ef9"), "name" : "Krispy Kreme", "city" : "Riyadh", "score" : 8.5 }
>
```

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

```
> db.restaurants.find({}).sort({name:1})
{ "_id" : ObjectId("619b6e48ad45679a095f0ef5"), "name" : "AlTazaj", "city" : "Makkah", "score" : 9 }
{ "_id" : ObjectId("619b6cf2ad45679a095f0ef4"), "name" : "Albaik", "city" : "Riyadh", "score" : 10 }
{ "_id" : ObjectId("619b6efead45679a095f0ef8"), "name" : "Baba Khan", "city" : "Jeddah", "score" : 9 }
{ "_id" : ObjectId("619b6ec7ad45679a095f0ef7"), "name" : "Dominos pizza", "city" : "Jeddah", "score" : 9.5 }
{ "_id" : ObjectId("619b6e88ad45679a095f0ef6"), "name" : "KFC", "city" : "AlMadinah", "score" : 8 }
{ "_id" : ObjectId("619b6f32ad45679a095f0ef9"), "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

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

- Delete the KFC restaurant

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