

MongoDB shell

For each step take a shot and when you are done upload the results as pdf file

Create a collection called restaurants

insert one restaurant into the restaurant's collection, for example:

```
{ "name": "Albaik", "city": "Jeddah", "score": 10 }
```

```
[Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> db.restaurants.insertOne(
... { "name": "Albaik", "city": "Jeddah", "score": 10 }
... )
{
  acknowledged: true,
  insertedId: ObjectId("619ba8107ab5307b45a1bbe4")
}
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> █
```

insert many restaurants into the restaurant's collection, for example:

```
{ "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 }
```

```
[Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> db.restaurants.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: {
    '0': ObjectId("619baabd7ab5307b45a1bbe6"),
    '1': ObjectId("619baabd7ab5307b45a1bbe7"),
    '2': ObjectId("619baabd7ab5307b45a1bbe8"),
    '3': ObjectId("619baabd7ab5307b45a1bbe9"),
    '4': ObjectId("619baabd7ab5307b45a1bbea")
  }
}
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> █
```

Display all the documents in the collection restaurants.

```
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> db.restaurants.find({})
[
  {
    _id: ObjectId("619baa6b7ab5307b45a1bbe5"),
    name: 'Albaik',
    city: 'Jeddah',
    score: 10
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe6"),
    name: 'AlTazaj',
    city: 'Makkah',
    score: 9
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe7"),
    name: 'KFC',
    city: 'AlMadinah',
    score: 8
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe8"),
    name: 'Dominos pizza',
    city: 'Jeddah',
    score: 9.5
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe9"),
    name: 'Baba Khan',
    city: 'Jeddah',
    score: 9
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbea"),
    name: 'Krispy Kreme',
    city: 'Riyadh',
    score: 8.5
  }
]
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> █
```

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

```
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> db.restaurants.find({}, { '_id': false })
[
  { name: 'Albaik', city: 'Jeddah', 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 }
]
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> █
```

Display all the restaurants which are in Jeddah city.

```
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> db.restaurants.find({ "city": "Jeddah" })
[
  {
    _id: ObjectId("619baa6b7ab5307b45a1bbe5"),
    name: 'Albaik',
    city: 'Jeddah',
    score: 10
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe8"),
    name: 'Dominos pizza',
    city: 'Jeddah',
    score: 9.5
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe9"),
    name: 'Baba Khan',
    city: 'Jeddah',
    score: 9
  }
]
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> █
```

Display all the restaurants which have achieved a score greater than or equal to 9.

```
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> db.restaurants.find({$or:[{score:{$gt:9}},{score:9}]})
[
  {
    _id: ObjectId("619baa6b7ab5307b45a1bbe5"),
    name: 'Albaik',
    city: 'Jeddah',
    score: 10
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe6"),
    name: 'AlTazaj',
    city: 'Makkah',
    score: 9
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe8"),
    name: 'Dominos pizza',
    city: 'Jeddah',
    score: 9.5
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe9"),
    name: 'Baba Khan',
    city: 'Jeddah',
    score: 9
  }
]
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> █
```

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

```
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> db.restaurants.find({$or:[{score:{$gt:9}},{score:9}]})
[
  {
    _id: ObjectId("619baa6b7ab5307b45a1bbe5"),
    name: 'Albaik',
    city: 'Jeddah',
    score: 10
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe6"),
    name: 'AlTazaj',
    city: 'Makkah',
    score: 9
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe8"),
    name: 'Dominos pizza',
    city: 'Jeddah',
    score: 9.5
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe9"),
    name: 'Baba Khan',
    city: 'Jeddah',
    score: 9
  }
]
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> █
```

Display all the restaurants which are in Jeddah and achieve a score greater than or equal to 9.5.

```
[Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> db.restaurants.find({$or:[{score:{$gt:9}},{score:9}]})
[
  {
    _id: ObjectId("619baa6b7ab5307b45a1bbe5"),
    name: 'Albaik',
    city: 'Jeddah',
    score: 10
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe6"),
    name: 'AlTazaj',
    city: 'Makkah',
    score: 9
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe8"),
    name: 'Dominos pizza',
    city: 'Jeddah',
    score: 9.5
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe9"),
    name: 'Baba Khan',
    city: 'Jeddah',
    score: 9
  }
]
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> █
```

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

```
[Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> db.restaurants.find({name: /^Al/})
[
  {
    _id: ObjectId("619baa6b7ab5307b45a1bbe5"),
    name: 'Albaik',
    city: 'Jeddah',
    score: 10
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe6"),
    name: 'AlTazaj',
    city: 'Makkah',
    score: 9
  }
]
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> █
```

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

```
[Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> db.restaurants.find( { name: { $regex: "k" } } )
[
  {
    _id: ObjectId("619baa6b7ab5307b45a1bbe5"),
    name: 'Albaik',
    city: 'Jeddah',
    score: 10
  }
]
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> █
```

Note:the \$regex is case sensitive

Display all the restaurants by arranging the name of the restaurants in ascending order.

```
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> db.restaurants.aggregate( { $sort: { name: 1 } } )
[
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe6"),
    name: 'AlTazaj',
    city: 'Makkah',
    score: 9
  },
  {
    _id: ObjectId("619baa6b7ab5307b45a1bbe5"),
    name: 'Albaik',
    city: 'Jeddah',
    score: 10
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe9"),
    name: 'Baba Khan',
    city: 'Jeddah',
    score: 9
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe8"),
    name: 'Dominos pizza',
    city: 'Jeddah',
    score: 9.5
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbe7"),
    name: 'KFC',
    city: 'AlMadinah',
    score: 8
  },
  {
    _id: ObjectId("619baabd7ab5307b45a1bbea"),
    name: 'Krispy Kreme',
    city: 'Riyadh',
    score: 8.5
  }
]
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> █
```

Update Domino's pizza restaurant which is in Jeddah to be in AlMadinah, and the name to Dominos Pizza, and the score to 10

```
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> db.restaurants.updateOne({ name: "Dominos pizza" }, { $set: { score: 10 } })
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> █
```

Delete the KFC restaurant

```
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> db.restaurants.deleteOne({ name: "KFC" })
{ acknowledged: true, deletedCount: 1 }
Atlas atlas-14gtei-shard-0 [primary] myFirstDatabase> █
```