

**Tutorial-02****(MongoDB)**

Import [restaurant.json](#) file using below command.

```
mongoimport --db databasename --collection res --file D:\restaurants.json
```

**Note: Don't write above command in mongo shell. Directly execute it from the command prompt.**

1. Write a MongoDB query to display all the documents in the collection restaurants.

```
db.restaurants.find()
```

2. Write a MongoDB query to display the fields restaurant\_id, name, borough and cuisine for all the documents in the collection restaurant.

```
db.restaurants.find({}, {restaurant_id:1, name:1, borough:1, cuisine:1})
```

3. Write a MongoDB query to display the fields restaurant\_id, name, borough and cuisine, but exclude the field \_id for all the documents in the collection restaurant.

```
db.restaurants.find({}, {restaurant_id:1, borough :1, cuisine:1, _id:0})
```

4. Write a MongoDB query to display the fields restaurant\_id, name, borough and zip code, but exclude the field \_id for all the documents in the collection restaurant.

```
db.restaurants.find({}, {restaurant_id:1, borough:1, cuisine:1, _id:0, "address.zipcode":1})
```

5. Write a MongoDB query to display all the restaurant which is in the borough Bronx.

```
db.restaurants.find({"borough":"Bronx"}).pretty()
```

6. Write a MongoDB query to display the first 5 restaurant which is in the borough Bronx.

```
db.restaurants.find({"borough":"Bronx"}).limit(5).pretty()
```

7. Write a MongoDB query to display the next 5 restaurants after skipping first 5 which are in the borough Bronx

```
db.restaurants.find({"borough":"Bronx"}).skip(5).limit(5).pretty()
```

8. Write a MongoDB query to find the restaurants who achieved a score more than 90.

```
db.restaurants.find({"grades.score":{"$gt:90}})
```

**9. Write a MongoDB query to find the restaurants that achieved a score, more than 80 but less than 100**

```
db.restaurants.find({"grades.score":{"$gt:80,$lt:100"}}).pretty()
```

**10. Write a MongoDB query to find the restaurants which locate in latitude value less than -95.754168.**

```
db.restaurants.find({"address.coord" : {$lt : -95.754168}})
```

**11. Write a MongoDB query to find the restaurants that do not prepare any cuisine of 'American' and their grade score more than 70 and latitude less than -65.754168.**

```
db.restaurants.find({ $and:  
[  
  {"cuisine":{"$ne:"American"}},  
  {"grades.score":{"$gt:70"}},  
  {"address.coord":{"$lt: -65.754168"}}  
]  
}  
})
```

**12. Write a MongoDB query to find the restaurants which do not prepare any cuisine of 'American' and achieved a score more than 70 and located in the longitude less than -65.754168.**

**Note : Do this query without using \$and operator.**

```
db.restaurants.find(  
{  
  "cuisine":{"$ne:"American"},  
  "grades.score":{"$gt:70"},  
  "address.coord":{"$lt:-65.754168"}  
})
```

**13. Write a MongoDB query to find the restaurants which do not prepare any cuisine of 'American ' and achieved a grade point 'A' not belongs to the borough Brooklyn. The document must be displayed according to the cuisine in descending order.**

```
db.restaurants.find(  
{  
  "cuisine":{"$ne":"American"},  
  "grades.grade":"A",  
  "borough":{"$ne":"Brooklyn"}  
}).sort({"cuisine":-1})
```

**14. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which contain 'Wil' as first three letters for its name.**

```
db.restaurants.find({name:/^Wil/},{ "restaurantId":1,"name":1,"borough":1,"cuisine":1})
```

**15. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which contain 'ces' as last three letters for its name.**

```
db.restaurants.find({name:/ces$/},{ "restaurant Id":1,"name":1,"borough":1,"cuisine":1})
```

**16. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which contain 'Reg' as three letters somewhere in its name.**

```
db.restaurants.find({name:/. *Reg. */},{ "restaurant Id":1,"name":1,"borough":1,"cuisine":1})
```

**17. Write a MongoDB query to find the restaurants which belong to the borough Bronx and prepared either American or Chinese dish**

```
db.restaurants.find({"borough":"Bronx",$or:[{"cuisine":"American"}, {"cuisine":"Chinese"}]})
```

**18. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which belong to the borough Staten Island or Queens or Bronx or Brooklyn.**

```
db.restaurants.find(  

```

```
{ "borough" : { $in : ["Staten Island", "Queens", "Bronx", "Brooklyn"] } },  
{  
  "restaurant_id" : 1,  
  "name":1,"borough":1,  
  "cuisine" :1  
}  
);
```

**19. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which are not belonging to the borough Staten Island or Queens or Bronx or Brooklyn.**

```
db.restaurants.find(  
  { "borough" : { $nin : ["Staten Island", "Queens", "Bronx", "Brooklyn"] } },  
  {  
    "restaurant_id" : 1,  
    "name":1,"borough":1,  
    "cuisine" :1  
  }  
);
```

**20. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which prepared dish except 'American' and 'Chinees' or restaurant's name begins with letter 'Wil'.**

```
db.restaurants.find(  
  { "grades.score" :  
    { $not:  
      { $gt : 10 }  
    }  
  }
```

```
},  
{  
  "restaurant_id" : 1,  
  "name":1,"borough":1,  
  "cuisine" :1  
}  
);
```

**21. Write a MongoDB query to arrange the name of the restaurants in ascending order along with all the columns**

```
db.restaurants.find(  
  {$or: [  
    {name: /^Wil/},  
    {"$and": [  
      {"cuisine" : {$ne : "American "}},  
      {"cuisine" : {$ne : "Chinees"}}  
    ]}  
  ]}  
  ,{"restaurant_id" : 1,"name":1,"borough":1,"cuisine" :1}  
);
```

**22. Write a MongoDB query to arrange the name of the restaurants in descending order along with all the columns.**

```
db.restaurants.find(  
  {  
    "grades.date": ISODate("2014-08-11T00:00:00Z"),  
    "grades.grade": "A" ,  
    "grades.score" : 11  
  },  
);
```

```
    {"restaurant_id" : 1,"name":1,"grades":1 }  
  );
```

**23. Write a MongoDB query to arrange the name of the cuisine in ascending order and for that same cuisine borough should be in descending order**

```
db.restaurants.find(  
    { "grades.1.date": ISODate("2014-08-11T00:00:00Z"),  
      "grades.1.grade":"A" ,  
      "grades.1.score" : 9  
    },  
    {"restaurant_id" : 1,"name":1,"grades":1 }  
  );
```

**24. Find out how many times each cuisine is offered at various restaurants.**

```
db.restaurants.find(  
    {  
      "address.coord.1": { $gt : 42, $lte : 52 }  
    },  
    {"restaurant_id" : 1,"name":1,"address":1,"coord":1 }  
  );
```

**25. Find out how many times each cuisine is offered at various restaurants in descending order.**

```
db.restaurants.find().sort({"name":1});
```

**26. Which cuisine is highly offered among all restaurants?.**

```
db.restaurants.find().sort(  
    {"name":-1 }  
  );
```

**27. Find out the top 5 highly offered cuisines among all restaurants?**

```
db.restaurants.find().sort(  
    {"cuisine":1,"borough" : -1,}  
    );
```