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

db.hotel.find()

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

db.hote.find({},{"restaurant\_id":1,"name":1,"borough":1,"cuisine":1})

1. 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.

**Ans**: db.hotel.find({},{"restaurant\_id":1,"\_id":0,"name":1,"borough":1,"cuisine":1})

1. 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.

**Ans**: db.hotel.find({},{"restaurant\_id":1,"\_id":0,"name":1,"borough":1,"address.zipcode":1})

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

**Ans**: db.hotel.find({"borough":"Bronx"})

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

**Ans**:

db.hotel.find({"borough":"Bronx"}).limit(5)

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

**Ans**:

db.hotel.find({"borough":"Bronx"}).limit(5).skip(5)

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

**Ans**:

db.hotel.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.

**Ans**:

db.hotel.find({"grades.score":{$gt:90,$lt:100}})

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

**Ans**:

db.hotel.find({"address.coord.0":{$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.

**Ans**: db.hotel.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.

**Ans**: db.hotel.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.

**Ans**: db.hotel.find({"cuisine":{$ne:"American"},"grades.grade":"A","borough":"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.

**Ans**: db.hotel.find({"name":/^Wil/},{"restaurant\_id":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.

**Ans**: db.hotel.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.

**Ans**: db.hotel.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.

**Ans**:

db.hotel.find({"borough":”Bronox”,$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.

**Ans**:

db.hotel.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 Bronxor Brooklyn.

**Ans**:

db.hotel.find({"borough":{$in:[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 achieved a score which is not more than 10.

**Ans**: db.hotel.find({"grades.score":{$not:{$gt:10}},{"restaurant\_id":1,"name":1,"borough":1,"cuisine":1})

21. 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'.

**Ans**:

db.hotel.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 find the restaurant Id, name, and grades for those restaurants which achieved a grade of "A" and scored 11 on an ISODate "2014-08-11T00:00:00Z" among many of survey dates..

**Ans**:

db.hotel.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 find the restaurant Id, name and grades for those restaurants where the 2nd element of grades array contains a grade of "A" and score 9 on an ISODate "2014-08-11T00:00:00Z".

24. Write a MongoDB query to find the restaurant Id, name, address and geographical location for those restaurants where 2nd element of coord array contains a value which is more than 42 and upto 52..

**Ans**: db.hotel.find({"address.coord.1":{$gt:42,$lte:52}},{"restaurant\_id":1,"name":1,"address":1,"coord":1}).pretty()

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

**Ans**:

db.hotel.find().sort({"name":1}). pretty()

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

**Ans**:

db.hotel.find().sort({"name":-1}). pretty()

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

**Ans**:

db.hotel.find().sort({"cuisine":1,"borough":-1}).pretty()

28. Write a MongoDB query to know whether all the addresses contains the street or not.

**Ans**:

db.hotel.find({"address.street":{$exists:true}}).pretty()

29. Write a MongoDB query which will select all documents in the restaurants collection where the coord field value is Double.

**Ans**:

db.hotel.find({"address.coord":{$type:1}}).pretty()

30. Write a MongoDB query which will select the restaurant Id, name and grades for those restaurants which returns 0 as a remainder after dividing the score by 7.

**Ans**: db.hotel.find({"grades.score":{$mod:[7,0]}},{"restaurant\_id":1,"name":1,"grades":1}).pretty()

31. Write a MongoDB query to find the restaurant name, borough, longitude and attitude and cuisine for those restaurants which contains 'mon' as three letters somewhere in its name.

32. Write a MongoDB query to find the restaurant name, borough, longitude and latitude and cuisine for those restaurants which contain 'Mad' as first three letters of its name.