1. Write a MongoDB query to display all the documents in the collection restaurants. Ans: db.Restaurants\_info.find()

2. Write a MongoDB query to display the fields restaurant\_id, name, borough and cuisine for all the documents in the collection restaurant. Ans: db.Restaurants\_info.find({},{restaurant\_id:1,name:1,borough:1,cusine: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. Ans: db.Restaurants\_info.find({},{restaurant\_id:1,name: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. Ans: db.Restaurants\_info.find({},{restaurant\_id:1,name:1,borough:1,cuisine:1,\_id:0,"address.zip code":1})

5. Write a MongoDB query to display all the restaurant which is in the borough Bronx. Ans: db.Restaurants\_info.find({"borough":"Bronx"})

6. Write a MongoDB query to display the first 5 restaurant which is in the borough Bronx. Ans: db.Restaurants\_info.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.Restaurants\_info.find().limit(5).skip(5)

8. Write a MongoDB query to find the restaurants who achieved a score more than 90. Ans: db.Restaurants\_info.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.Restaurants\_info.find({$and:[{"grades.score":{$gt:80}},{"grades.score":{$lt:100}}]})

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

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.Restaurants\_info.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 $and operator. Ans: db.restaurants.find({"cuisine" : {$ne : "American "}, "grades.score" : {$gt : 70},"address.coord.0" : {$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.Restaurants\_info.find({"cusine":{$ne:"American"},"grades.grade":"A","borough":{$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. Ans: db.Restaurants\_info.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.Restaurants\_info.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.Restaurants\_info.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.Restaurants\_info.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. Ans: db.Restaurants\_info.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. Ans: db.Restaurants\_info.find({"borough":{$nin:["StatenIsland","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.Restaurants\_info.find({"grades.score":{$lt: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.Restaurants\_info.find({$or:[{name:/^Will/},{$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.Restaurants\_info.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". Ans:

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..

25. Write a MongoDB query to arrange the name of the restaurants in ascending order along with all the columns. Ans: db.Restaurants\_info.find().sort({"name":1})

26. Write a MongoDB query to arrange the name of the restaurants in descending along with all the columns. Ans: db.Restaurants\_info.find().sort({"name":-1})

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.Restaurants\_info.find().sort({"cuisine":1,"borough":-1})

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

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

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.

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.