Name:Kovvuri venkata satya manikanta reddy EXERCISE QUESTIONS:

- 1.Write a MongoDB query to display all the documents in the collection restaurants Ans. db.addresses.find().pretty()
- 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.addresses.aggregate([{\$project:{"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.

Ans.

db.addresses.aggregate([{\$project:{"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.addresses.aggregate([{\$project:{"restaurant_id":1,"name":1,"borough":1,"address.zipcode":1, "_id":0}}])

- 5. Write a MongoDB query to display the first 5 restaurant which is in the borough Bronx. Ans. db.addresses.aggregate([{\$match:{borough:"Bronx"}},{\$limit:5}])
- 6. Write a MongoDB query to display all the restaurant which is in the borough Bronx Ans. db.addresses.aggregate([{\$match:{borough:"Bronx"}}])
- 7. Write a MongoDB query to display the next 5 restaurants after skipping first 5 which are in the borough Bronx.

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

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

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

Ans. db.addresses.aggregate([{\$match:{"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.

Ans.

db.addresses.aggregate([{\$match:{\$and:[{cuisine:{\$ne:"American"}},{"grades.score":{\$gt:70}},{"address.coord.0":{\$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.

Ans.

 $db. addresses. aggregate ([\{\$match: \{\$and: [\{cuisine: \{\$ne: "American"\}\}, \{"grades. score": \{\$gt: 70\}\}, \{"address. coord. 1": \{\$lt: -65.754168\}]]\}])$

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.addresses.aggregate([{\$sort:{cuisine:-1}},{\$match:{\$and:[{cuisine:{\$ne:"American"}},{borough:{\$ne:"Brooklyn"}},{"grades.grade":"A"}]}}])

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.addresses.aggregate([{\$match:{name:

/^Wil/}},{\$project:{name:1,restaurant_id:1,borough:1,cuisine:1}}])

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

Ans. db.addresses.aggregate([{\$match:{name:

/ces\$/}},{\$project:{name:1,restaurant id: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.addresses.aggregate([{\$match:{name:

/Reg/}},{\$project:{name:1,restaurant id: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.addresses.aggregate([{\$match:{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 Bronxor Brooklyn.

Ans. db.addresses.aggregate([{\$match:{\$or:[{borough:{\$in:["Staten}

Island","Queens","Bronx","Brooklyn"]}}]}},{\$project:{name:1,restaurant_id: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.addresses.aggregate([{\$match:{\$or:[{borough:{\$nin:["Staten} Island","Queens","Bronx","Brooklyn"]}}]}},{\$project:{name:1,restaurant_id: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.addresses.aggregate([{\$match:{"grades.score":{\$not:{\$gt:10}}}},{\$project:{name:1,restaurant _id: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.addresses.aggregate([{\$match:{\$or:[{name: /^Wil/},{"\$and": [{"cuisine" : {\$ne :"American "}}, {"cuisine" :{\$ne :"Chinese"}}]}]}}, {\$project{name:1,restaurant_id: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.addresses.aggregate([{\$match:{grades: {date: ISODate("2014-08-11T00:00:00Z"), grade:"A", score:11}}},{\$project:{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. db.addresses.aggregate([{\$match:{"grades.1": {date: ISODate("2014-08-11T00:00:00Z"), grade:"A", score:9}}},{\$project:{restaurant_id:1, name:1, grades:1}}])

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.addresses.find({"address.coord.1": {\$gte:42, \$lte:52}},{restaurant_id:1,name:1,address:1,"address.coord":1})

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

Ans. db.addresses.aggregate([{\$sort:{name:1}}])

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

Ans. db.addresses.aggregate([{\$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.addresses.aggregate([{\$sort:{cusine:1,borough:-1}}])

- 28. Write a MongoDB query to know whether all the addresses contains the street or not. Ans. db.addresses.aggregate([{\$match:{"address.street":{\$exists:true}}}])
- 29. Write a MongoDB query which will select all documents in the restaurants collection where the coord field value is Double.

Ans. db.addresses.aggregate([{\$match:{"address.coord":{\$type:"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. Ans. db.addresses.aggregate([{\$match:{"grades.score":{\$mod:[7,0]}}},{\$project:{restaurant_id:1, name:1, grades:1}}])
- 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 Ans. db.addresses.aggregate([{\$match:{name: /mon/}},{\$project:{name:1, borough:1,"address.coord.0":1,"address.coord.1":1,cuisine:1}}])
- 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. Ans. db.addresses.aggregate([{\$match:{name: /^Mad/}},{\$project:{name:1, borough:1,"address.coord.0":1,"address.coord.1":1,cuisine:1}}])