```
date: Date()
1)
                                             EXERCISE 18
Structure of 'restaurants' collection:
 "address"; {
  "building": "1007",
  "coord": [ -73.856077, 40.848447 ],
  "street": "Morris Park Ave",
  "zipcode": "10462"
 "borough": "Bronx",
 "cuisine": "Bakery",
 "grades": [
  { "date": { "$date": 1393804800000 }, "grade": "A", "score": 2 },
  { "date": { "$date": 1378857600000 }, "grade": "A", "score": 6 },
  { "date": { "$date": 1358985600000 }, "grade": "\", "score": 10 },
  { "date": { "$date": 1322006400000 }, "grade": "\lambda", "score": 9 },
   { "date": { "$date": 1299715200000 }, "grade": "B", "score": 14 }
 1.
 "name": "Morris Park Bake Shop",
```

"restaurant_id": "30075445"

}

1. 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. Bird f or: 44 curinie: 4 train: ['American', 'Chienen 4999 4 name: 1^ will: 343

2. 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...

4 grades: 4 telemantes: 4 grand: "A", Source: 11 date: new slate

(" 20/4.08-11") 999

4 reparant _id: 1, name: 1, grade: 1 — M: 03

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- 3. 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 "2014-0811T00:00:002". db restaurant find f

 4" grades ·1": & & dematch: & grade: "A", & coore: 1, date: new Date

 (-2014-08-11:00:00) \$ 4 revaurant_(d:11, name: 1, grades: 1,

 4. Write a MongoDB query to find the restaurant Id, name, address and geographical location for id:0 y

 those restaurants where 2nd element of coord array contains a value which is more than 42 and

 upto 52... db · restaurant. find y

 4" Address: coord: 1": 4fget: 42, \$1 te: 52 ft,

 2 restaurant_id: 1, name: 1, address: 1, "address: coord": 1,

 id:0 yy
 - 5. Write a MongoDB query to arrange the name of the restaurants in ascending order along with all the columns.

 db. restaurant find(). Sort (gname: 1 y)
- 6. Write a MongoDB query to arrange the name of the restaurants in descending along with all the columns.

 db. restaurant. find (). Sort () name: -1))
- 7. 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.

 db 'restaurant · find () · Sort (& Guisine i 1, brought-1)
- 8. Write a MongoDB query to know whether all the addresses contains the street or not.

 db. restaurant. find (4"address. street": } count() = = 0.

	Write a MongoDB query which will select all documents in the restaurants collection where
t	the coord field value is Double. db. restaurant. find 4 ("address.covd": 4 & type: "double" }
	4)
	10. 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. ab vertaurants find (4"grade. score": 44 mod: [7,0]44,
1	restaurants-id: 1, name: 1, grade: 1, -id: 044
- [11. 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.
4	b. restaurants find (4 name: 2 d regen:/mon/i4/9, name: 1, brought: 1, "address. coord": 1, cuisine: 1, - id: 0 y y
	12. 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.
	db. restawant find (
	4 name: 4\$ vegex: /" mad /i 49>
	4 name: 1, borough: 1, "address. coord": 1, cuisine: 1, io
	13. Write a MongoDB query to find the restaurants that have at least one grade with a score of
	less than 5. db. restaurant. find (
	34 "grades-score": 4 \$1t:533
	14. Write a MongoDB query to find the restaurants that have at least one grade with a score of less than 5 and that are located in the borough of Manhattan.
	db. restament find (
4	"grades. Score": 2 \$ 1+:54,
	boraegh: "mahatlan"

15. Write a MongoDB query to find the restaurants that have at least one grade with a score of less than 5 and that are located in the borough of Manhattan or Brooklyn.

db. restaurants. find (4 "grades. score": 4 \$1+:53, borough: y & in: ["manhattan", "Brooklyn"] y y

16. Write a MongoDB query to find the restaurants that have at least one grade with a score of less than 5 and that are located in the borough of Manhattan or Brooklyn, and their cuisine is not

db. restaurant. find (4 "grade. Score": 9 \$ 1+: 59, borough: y fin: ["marhalton", "Brooklyn"]y. cuisine: yfne: "American"y y

17. Write a MongoDB query to find the restaurants that have at least one grade with a score of less than 5 and that are located in the borough of Manhattan or Brooklyn, and their cuisine is not American or Chinese.

db. restaurants. find (4"grade score": f\$1+:54,

borough · f\$in: ["Marhalton" "Brooklyn"]])

cuisine: 2 frin: ("Ambrican", chinese "] 3

18. Write a MongoDB query to find the restaurants that have a grade with a score of 2 an

grade with a score of 6.

db. restant rout 9 grades: 2 dall: [

4 & elematch: 4 score: 24 }, 3 9 34 \$ elemmatch: 4 Score: 644,

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19. Write a MongoDB query to find the restaurants that have a grade with a score of 2 and a grade with a score of 6 and are located in the borough of Manhattan.

db. restaurant. find(4 borough: "manhaltan") grades: 4 stall: [. & [& clematch: 4 source: 299, 4 elementch: 4 score: 693] y

20. Write a MongoDB query to find the restaurants that have a grade with a score of 2 and a grade with a score of 6 and are located in the borough of Manhattan or Brooklyn.

db. restaurante . find y (
booough: ["manhanthan," "brookly] y,
gradus: y & tall: [2 & element: 4 score: 2 3 3
4 & elematch: & score: 63 433

21. Write a MongoDB query to find the restaurants that have a grade with a score of 2 and a grade with a score of 6 and are located in the borough of Manhattan or Brooklyn, and their cuisine is not American.

db. restaurant - find ()
booorigh: q d in: [monhatten", "Brooklyn"]],
qrades: q fall: [q felements: q scueres: 233,
q l elementch: q scuere: 6 g g

cui sine: q f ne: "American" g

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22. Write a MongoDB query to find the restaurants that have a grade with a score of 2 and a grade with a score of 6 and are located in the borough of Manhattan or Brooklyn, and their cuisine is not American or Chinese. db. restaurants-find (q grades · y & all : [& felematch: (score: 2 y y, 4 felemnatch: 4 score: 6 yy Jy,
boxoogh: 4 \$ in: ["Manhattan", "Brooklyn"]y
cuisine: 4 \$ in: ["American", "chinene"] }] 23. Write a MongoDB query to find the restaurants that have a grade with a score of 2 or a grade with a score of 6. ore or o.

db. restawants. find (&

grades: 4 selements: 4

\$ pr : C

4 score: 24 4 score: 6 3 Sample document of 'movies' collection id: ObjectId("573a1390f29313caabcd42e8"), plot: 'A group of bandits stage a brazen train hold-up, only to find a determined posse hot on their heels.' genres: ['Short', 'Western'], runtime: 11, cast: ['A.C. Abadie', "Gilbert M. 'Broncho Billy' Anderson", 'George Barnes',

'Justus D. Barnes'

],

poster: 'https://m.media-

amazon.com/images/M/MV5BMTU3NjE5NzYtYTYyNS00MDVmLWlwYjgtMmYwYWlxZDYyNzU2XkEyXkFqcGdeQXVyNzQzNzQxNzl@_V1_SY1000_SX677_AL_jpg'. title: 'The Great Train Robbery'.

fullplot: "Among the earliest existing films in American cinema - notable as the first film that presented a narrative story to tell - it depicts a group of cowboy outlaws who hold up a train and rob the passengers. They are then pursued by a Sheriff's posse. Several scenes have color included - all hand tinted.",

languages: ['English']. released: ISODate("1903-12-01T00:00:00.000Z"), directors: ['Edwin S. Porter'], rated: 'TV-G', awards: { wins: 1, nominations: 0, text: '1 win.' }, lastupdated: '2015-08-13 00:27:59.177000000'. year: 1903, imdb: { rating: 7.4, votes: 9847, id: 439 }, countries: ['USA']. type: 'movie', tomatoes: { viewer: { rating: 3.7, numReviews: 2559, meter: 75 }, fresh: 6, critic: { rating: 7.6, numReviews: 6, meter: 100 }, rotten: 0, lastUpdated: ISODate("2015-08-08T19:16:10.000Z") 1. Find all movies with full information from the 'movies' collection that released in the year 1893. db. moives . find [year: 18934, 4 -id:09

2. Find all movies with full information from the 'movies' collection that have a runtime greater than 120 minutes.

db. mouies find (
4 runtimes: 4 \$ get: 12043

3. Find all movies with full information from the 'movies' collection that have "Short" genre.

db. moures. find (
4 genres: "short" }

4. Retrieve all movies from the 'movies' collection that were directed by "William K.L. Dickson" and include complete information for each movie.

db.mouies.gind (
y directors: "william.k.L Dickron" y

6. Retrieve all movies from the 'movies' collection that were released in the USA and include complete information for each movie.

db. mouier.find (
y countries: "USA" y

 Retrieve all movies from the 'movies' collection that have complete information and are rated as "UNRATED".

db. movies.find ({\frated: "UNRATED" }
) 8. Retrieve all movies from the 'movies' collection that have complete information and have received more than 1000 votes on IMDb.

9. Retrieve all movies from the 'movies' collection that have complete information and have an IMDb rating higher than 7.

10. Retrieve all movies from the 'movies' collection that have complete information and have a viewer rating higher than 4 on Tomatoes.

11. Retrieve all movies from the 'movies' collection that have received an award.

12. Find all movies with title, languages, released, directors, writers, awards, year, genres, runtime, cast, countries from the 'movies' collection in MongoDB that have at least one nomination.

released:1,
directors:1,
writers:1,
awards:1,
Year:1
geners:1
-id:01

13. Find all movies with title, languages, released, directors, writers, awards, year, genres, runtime, cast, countries from the 'movies' collection in MongoDB with cast including "Charles Kayser".

db. mouies-find q q cast: "chariles kalyser" y, q title: |, larguages! |, occleased: 1, clirectors: 1, weil there, awards: 1 year: 1, generes: 1, runtime: 1, countries: 1-id:

14. Refrieve all movies with title, languages, released, directors, writers, countries from the 'movies' collection in MongoDB that released on May 9, 1893.

db. movies. find y & released: Iso Date ("1893-05-09 Too :00:002")})

y title: navquages:1, released:1, directors:1, weiters:1, countries:1-id:0 y y

14. Retrieve all movies with title, languages, released, directors, writers, countries from the 'movies' collection in MongoDB that have a word "scene" in the title.

Evaluation Procedure

PL/SQL Procedure(5)

Program/Execution (5)

Viva(5)

Total (15)

Faculty Signature

db. mouies.find (ytitle:sceny
y title: 1, languages: 1, veleased: 1,
directors: 1, witors: 1, countries: 1,
-id:0y)