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```
Structure of 'restaurants' collection:
                                       EXERCISE 18
                     AIM: TO study about the concept of database in
 "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": { "$date": 1358985600000 }, "grade": "A", "score": 10 },
   "date": { "$date": 1322006400000 }, "grade": "A", "score": 9 },
   "date": { "$date": 1299715200000 }, "grade": "B", "score": 14 }
"name": "Morris Park Bake Shop",
"restaurant_id": "30075445"
```

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

of restaurants find (f \$ per: [& cuiume: f & Non: [American', Chinese '] 33 & Rame: f\$ regen: /1 mil / 35] 5, f restaurant - id: 1, nome: 1, borough: 1, aujune: 1, - id: 03) 2. Write a MongoDB query to find the restaurant ld, 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.. ab restaurants. find (f grates: f \$ elem Match: f grade: A', score: 11, date: ISO Date ("2014-08-11700:00:002") 335, 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 "2014-08-11T00:00:00Z". grades . 1. date': 750 Date ("2014-01-11700:00:002") 3, 1'
4. 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
The tawants find (f'address. coord. 1': f texcists: true 3's
frestaurant find (fraddrew. coord. 1': frexists: true 35 frestaurant id: 1 name: 1, addrew: 1, - id: 0 y, frequences. 5. Write a MongoDB query to arrange the name of the restaurants in ascending order along with all the columns.
Order along with a seconding
ab restaurants. find () root (Frame: 14)
6. Write a MongoDB query to arrange the name of the restaurants in descending
o man an the columns
db restaurants find () nort (& name: -13)
7. Write a MongoDB query to arranged the name of the cuisine in ascending order
that same cuisine borough should be in descending order
de restaurante tiet (1 mm (x.
db. restaurants. find (). Nort (" Cuinine: 1, borough: -13)
a MongoDB query to know whether all the addresses contains the street as
not. 'street' held £ x 2 5 75 in the 'address de restaurants bind (r'address street! r & suits true y de restaurants bind (s'address street! r & suits true y
ac. restaurants. and (& address. street! & & saits tourse
9. Write a MongoDB query which will select all documents in the restaurants fact by
collection where the coord field value is Double.
db. restaurants. find (f'address. coord': (\$ type: 195)
10. Write a Mongo DR guarantists and
10. Write a MongoDB query which will select the restaurant ld, name and grades for
those restaurants which returns 0 as a remainder after dividing the score by 7.
Trestaurant it: Later 1 to 100 1 to 100
11. Write a MongoDB query to find the restaurant name, borough, longitude and attitude and cuisine for those restaurants which contains in all the second attitude and cuisine for those restaurants which contains in all the second attitude and cuisine for those restaurants which contains in all the second attitude and cuisine for those restaurants which contains in all the second attitude and cuisine for those restaurants which contains in all the second attitude and cuisine for those restaurants which contains in all the second attitude and cuisine for those restaurants which contains in all the second attitude and cuisine for those restaurants which contains in all the second attitude and cuisine for those restaurants which contains in all the second attitude and cuisine for those restaurants which contains in all the second attitude and cuisine for those restaurants which contains in all the second attitude and cuisine for those restaurants which contains in all the second attitude and cuisine for those restaurants which contains in all the second attitude and cuisine for those restaurants which contains in all the second attitude and cuisine for those restaurants which contains in all the second attitude and cuisine for the second attitude
attitude and cuisine for those restaurants which contains 'mon' as three letters
somewhere in its name.
flo trestawants find (Frame: 5 \$ report 16 11 \$12)
12. Write a MongoDB query to find the restaurant name, borough, longitude and :05)
latitude and a latitude and a latitude and l
latitude and cuisine for those restaurants which contain 'Mad' as first three letters
of its name.
or its name. All reclavorants find (& name: & \$ rupe: / mod. */ 3/2 1 Name: 1, borough: 1, address. coort: 1, ainine: 1, id: 01
[Name: 1, borough: 1, address con!
1, ayure:1, -ld: (1)

13. Write a MongoDR qua
13. Write a MongoDB query to see
a score of less than 5.
13. Write a MongoDB query to find the restaurants that have at least one grade with 14. Write a MongoDB query to find the restaurant a score of less than 5. 15. The score of less than 5.
14. Write a Mon-
14. Write a Mon-
a score of less than s
ab restaurants and that are located in the
find C.C. the borough of the
15. Write a Mongapp
a score of less than 5 and that are located in the borough of Manhattan or Brooklyn. I Manhattan Brook her (2) 22
restand 5 and that are located to
I me find Crise the borough of Manhattan and
16. Write a Mongopp Brooklyn 7221 grades. Nove 1: 8 \$11:54, borough 3 to
mongone and Jay)
and their cuisine is not American.
Thankattan Brooklyn 77, wine: (\$11:59, barrough: \$\$in- 17. Write a MongoDB query to find the marie (\$10.000)
L'Markettas 1 Pm frad (E'grades - sepre: E \$11:54 James 1
17. Write a Mongo DR Wine: 15 to : America 123
17. Write a MongoDB query to find the restaurants that have at least one grade with
ress than 5 and that are located to the
and their cuisine is not American or Chinese.
18. Write a MongoDB query to find the restaurants that have a grade with a score of
18. 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
db. restaurents find (& 'gradoes recore': 2, 'grades nore': 63)
That (E grades More : 2, grades More : 63)
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.
de restaurants. find (yrades More': 2, 'grades More': 6, lorough:
manhettan's)
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.

```
20) db. restaurants. find (5' gerades sevre': 2, 'grades sevre': 6,
     borough: & & in: [ manhatten , "Berooklyn (333)
    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.
        de . Frestow conts. find (F'grades. More': 2, 'grades more' 6,
       borough: Esin: [ Manhattan', Brooklyn's', Ecurine: Esse: American)
     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.
ab restriction. find (& grades. More: 2, grades were: 6, borough: f & in: [! Manhattan', 'Brooklyn']y, withe: f & in:
     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.
       db. restaurants. find CE$ or: [ E'grades. More 1:23,
       & grades . More : 6 3 33
      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'
         ],
       amazon.com/images/M/MV5BMTU3NjE5NzYtYTYyNS00MDVmLWIwYjgtMmYwYWIxZDYyNzU2XkEyXkFqcG
       deQXVyNzQzNzQxNzI@._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("2015-08-08T19:16:10.0002")
```

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1. Find all movies with full information from the 'movies' collection that released in the year 1893.

db morries find (& year: 18934)

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

db novies find (fruntine: f\$gt: 12033)

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

db. Movies find (& genres: "short"3)

The tribute complete information for each movie.
db. movies. find (& countries: "US N")
6. Retrieve all movies from the 'movies' collection that have complete information and are rated as "UNRATED".
db movies find (5 rated: "UNRATED"3)
7. Retrieve all movies from the 'movies' collection that have complete information and have received more than 1000 votes on IMDb. db. movies . find (5' indb. Votes': 5*9t: 1000 yz)
8. Retrieve all movies from the 'movies' collection that have complete information and have an IMDb rating higher than 7. When movies find (1' indb. ruling: (\$\$94:733)
9. Retrieve all movies from the 'movies' collection that have complete information and have a viewer rating higher than 4 on Tomatoes. Ab . Movies . find (f 'tomatoes . viewer . rating': f \$ gt : 44 %) 10. Retrieve all movies from the 'movies' collection that have received an award. Ab . Movies . find (f awards : f togeth: true, to e: "" 3 %) 11. 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. Ab . Movies . find (f awards: f together: C1-9718 f romination?) The find all movies with title, languages, released, directors, writers, awards, year, which is the find (f awards: f together: f with the find for the formation?) The find all movies with title, languages, released, directors, writers, awards, year, when the find for the formation of the formation of the find for the formation of the find for the find for the find for the formation of the find for
enres, runtime, cast, countries from the 'movies' collection in MongoDB with cast

4. Retrieve all movies from the 'movies' collection that were directed by "William

5. Retrieve all movies from the 'movies' collection that were released in the USA

do mones find ("directors: "William K. L. Dickson" 3)

K.L. Dickson" and include complete information for each movie.

including "Charles Kayser"

Whene had (19, 15 title: 1, luguage: 1, released: 1, director: 1, writer; 1, writer; 1, wat: 1, durards: 1, year: 1, -0:03,

13. Retrieve all movies with title, languages, released, directors, writers, countries

to movies collection in MongoDB that released on May 9, 1893.

15 title: 1 Languages: 1 Teleased: 1, directors; writers; countries

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.

The movies had (2 title: 2 5 reger: 1 Mene (23), 5 title: 1, languages; 1, writers: 1, cantries: 1, id:03)

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RESULT:

Thus the concept of dutabase in Mongo DB are studied.

Cong J. Day

Evaluation Procedure	Marks awarded
PL/SQL Procedure(5)	5
Program/Execution (5)	5
Viva(5)	4
Total (15)	ly
Faculty Signature	100

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- Junav . K	Branch : CSE Sec :	Roll No : 24070134

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