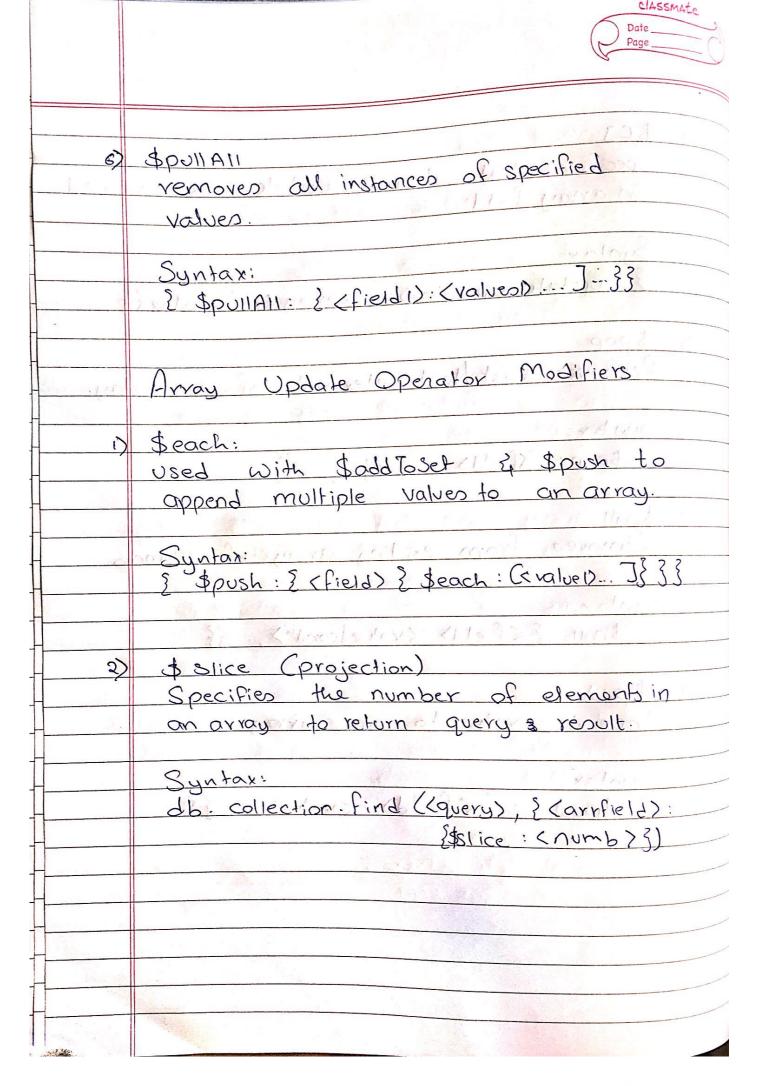
	Assignment Bos
,	Date of Completion: 9/11/20
,	Date of Submission: 23/11/20
	I subject something of the state of the stat
	Title: Array Operations.
	Huerst
7.	Problem Statement:
	Design 4 implement any 5 queries
	Using Mongo DB (1811/1912) Ital
1.7%	
	Objectives:
	1) To guery embeded documents, arrays
	& array of embedded documents.
2	2) To update embedded documents,
	array of embedded
	documents.
	We will be the first of the second of the se
	Discome: Homes to an il mander
	Ability to update & query embedded
	Locuments arrays & array of
	embedded documents.
	SIW & HIW Req. Who are all the state of the
	Manager Lu Server, Windows 10, 15
	processor 898 RAM.
\	The state of the s
	Fig. 1. Process

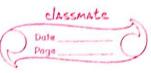
	Date_	
1	Page	
12		

٥	Theory:
	Array Query Operators
1>	\$ all sallite was a wards ?
	selects the document where value of
	field is an array that contains all specified
	element.
	Syntax. C Arm direction 1
	Syntax. Syntax. (value 1), (value 2),
2>	\$ elemmatch
3	element that matches all queries
	at most tolle and to prive in
	Syntax lood 1 do a ver de la
	{ < field>: { Selemmatch : { (q1) (q2) }}
	21.000000
3)	\$ size
	matches with no. of elements specified.
4	blooders was in a selecting and getters
	Syntax morros, provid donnisch
	db.collection.find ({field: } ssize : (value)}})
	Array Update Operators.
	in the service of the
Ď	\$: specifies position of ele. inarray
	Syntax:
	Syntax: 2 " (arvay)" : value }



	Date Page
1	
2)	\$63
	Specifies that it will update all specified
	in array field
	Syntax.
	¿ (update operator): ¿ "carray. \$[]": value }}
3)	\$ pop
	Removes first last element of an array.
	Sul
	Syntax: Espop: Xfield>: <-1/2,33
	2 ppop. 21 tield > (- 1) 2 3]
4)	\$pull
4/	Removes from existing array of instances
	Got native word (chelp & doct is a
	Syntax:
	¿\$pull: { <field>:<value(cond">,}}</value(cond"></field>
	The Company of sold to
5)	5 push 1 2 mader 10 post recommender
	Appends value to an array
1	
(i)	Syntax: E spush: { < field): (value), }}
	Espush: { < field): (value), }
	3 (HOUD) 10 KN 18





	Page
	Ton- Conn
•	TEST CASES:
	ilp expected olp Result
5	db. songs.find ({ Returns one Yes
	featured In: { Sall document
	['Recent', 'Favourites']
	33)
2)	db.songs.find ({ Returns 2 Yes Playedby: documents { \$Size: 2,33}
	Playedby: documents
	{ \$ Size: 2}}
0	Conclusion:
	Thus we implemented array operations
	Thus we implemented array operations ¿ queried embedded documents in
	Thus we implemented array operations ¿ queried embedded documents in
	Thus we implemented array operations
	Thus we implemented array operations ¿ queried embedded documents in
	Thus we implemented array operations ¿ queried embedded documents in
	Thus we implemented array operations ¿ queried embedded documents in
	Thus we implemented array operations ¿ queried embedded documents in
	Thus we implemented array operations ¿ queried embedded documents in
	Thus we implemented array operations ¿ queried embedded documents in
	Thus we implemented array operations ¿ queried embedded documents in
	Thus we implemented array operations ¿ queried embedded documents in
	Thus we implemented array operations ¿ queried embedded documents in
	Thus we implemented array operations ¿ queried embedded documents in
	Thus we implemented array operations ¿ queried embedded documents in
	Thus we implemented array operations ¿ queried embedded documents in

```
> use B04;
switched to db B04
> db.dropDatabase();
createCollection("Aadhar");
show collections:
d{ "dropped" : "B04", "ok" : 1 }
> use B04;
switched to db B04
> db.Aadhar.update({},{$push:{"results":{"declared":"Yes"}}},{multi:true})
WriteResult({ "nMatched" : 20, "nUpserted" : 0, "nModified" : 20 })
> db.Aadhar.update({Aadharno:123513},{$push:{"results.$[].Voted":{"2018":1,"2019":0}}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.Aadhar.update({Aadharno:123512},{$push:{"results.$[].Voted":{"2018":0,"2019":0}}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.Aadhar.update({Aadharno:123511},{$push:{"results.$[].Voted":{"2018":1,"2019":1}}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.Aadhar.update({Aadharno:123510},{$push:{"results.$[].Voted":{"2018":0,"2019":0}}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.Aadhar.update({Aadharno:123509},{$push:{"results.$[].Voted":{"2019":1,"2020":1}}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.Aadhar.update({Aadharno:123508},{$push:{"results.$[].Voted":{"2018":1,"2020":0}}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.Aadhar.find().pretty();
    " id": ObjectId("5fbdecc663e242e7827e7d26"),
    "Aadharno": 123456,
    "Name": "Prathamesh KS",
    "MobileNo": 7755922895,
    "Gender": "Male",
    "Citizenship": "Indian",
    "Age": 20,
    "Address": "Pune",
    "Voted": {
         "2018": 0,
         "2019": 0,
         "2020":1
    },
     "results" : [
         {
              "declared": "Yes"
    1
}
```

```
"_id": ObjectId("5fbdecc763e242e7827e7d27"),
    "Aadharno": 123459,
    "Name": "Sooraj VS",
    "MobileNo": 7755922894,
    "Gender": "Male",
    "Citizenship": "Indian",
    "Age": 21,
    "Address": "Mumbai",
    "Voted": {
         "2018": 1,
         "2019":0,
         "2020":1
    },
    "results":[
         {
             "declared": "Yes"
    ]
}
    "_id": ObjectId("5fbdecc763e242e7827e7d28"),
    "Aadharno": 133455,
    "Name": "Aditya Somani",
    "MobileNo": 7755922893,
    "Gender": "Male",
    "Citizenship": "Indian",
    "Age": 31,
    "Address": "Mumbai",
    "Voted" : {
        "2018": 1,
         "2019": 1,
         "2020":1
    },
    "results":[
         {
             "declared": "Yes"
         }
    1
}
    "_id": ObjectId("5fbdecc763e242e7827e7d29"),
    "Aadharno": 125455,
    "Name": "Utkarsh Gurav",
    "MobileNo": 7755922892,
    "Gender": "Male",
    "Citizenship": "Indian",
    "Age": 98,
    "Address": "Nashik",
    "Voted" : {
```

```
"2018": 0,
         "2019": 0,
         "2020":0
    },
    "results":[
         {
             "declared": "Yes"
    ]
}
{
    "_id": ObjectId("5fbdecc763e242e7827e7d2a"),
    "Aadharno": 126451,
    "Name": "Henry VS",
    "MobileNo": 7755922824,
    "Gender": "Male",
    "Citizenship": "US",
    "Age": 21,
    "Address" : "Mumbai",
    "Voted" : {
        "2018":1,
         "2019": 0,
         "2020":1
    },
    "results":[
         {
             "declared": "Yes"
    ]
}
    "_id": ObjectId("5fbdecc763e242e7827e7d2b"),
    "Aadharno": 123465,
    "Name": "Tanvi MD",
    "MobileNo": 7755922214,
    "Gender": "Female",
    "Citizenship": "US",
    "Age": 43,
    "Address": "Newyork",
    "Voted" : {
         "2018":0,
         "2019": 0,
         "2020":1
    },
    "results":[
             "declared": "Yes"
    1
```

```
}
    "_id": ObjectId("5fbdecc763e242e7827e7d2c"),
    "Aadharno": 123500,
    "Name": "Aakash MD",
    "MobileNo": 7722922214,
    "Gender": "Male",
    "Citizenship": "US",
    "Age": 34,
    "Address": "Newyork",
    "Voted" : {
         "2018": 0,
         "2019":0,
         "2020":1
    },
    "results":[
         {
             "declared": "Yes"
    ]
}
    "_id": ObjectId("5fbdecc763e242e7827e7d2d"),
    "Aadharno": 123501,
    "Name": "Rajas S",
    "MobileNo": 775592215,
    "Gender": "Male",
    "Citizenship": "US",
    "Age": 23,
    "Address": "London",
    "Voted" : {
        "2018": 0,
         "2019": 1,
         "2020":1
    },
    "results":[
         {
             "declared": "Yes"
    ]
}
    "_id": ObjectId("5fbdecc763e242e7827e7d2e"),
    "Aadharno": 123502,
    "Name": "Shreyas MD",
    "MobileNo": 2255922216,
    "Gender": "Male",
    "Citizenship": "US",
    "Age": 12,
```

```
"Address": "Indian",
    "Voted" : {
         "2018": 1,
         "2019": 0,
         "2020":1
    },
    "results":[
              "declared": "Yes"
    ]
}
    "_id": ObjectId("5fbdecc763e242e7827e7d2f"),
    "Aadharno": 123503,
    "Name": "Chetan LK",
    "MobileNo": 7755922219,
    "Gender": "Male",
    "Citizenship": "Indian",
    "Age": 22,
    "Address": "Indian",
    "Voted" : {
         "2018": 1,
         "2019": 1,
         "2020":1
    },
    "results":[
              "declared": "Yes"
    ]
}
    "_id": ObjectId("5fbdecc763e242e7827e7d30"),
    "Aadharno": 123504,
    "Name": "Hritik S",
    "MobileNo": 7755922405,
    "Gender": "Male",
    "Citizenship": "Indian",
    "Age": 22,
    "Address": "Pune",
    "Voted" : {
         "2018": 1,
         "2019": 1,
         "2020":1
    "results":[
              "declared": "Yes"
```

```
}
    1
}
    "_id" : ObjectId("5fbdecc763e242e7827e7d31"),
    "Aadharno": 123505,
    "Name": "Shreya LM",
    "MobileNo": 7755922404,
    "Gender": "Female",
    "Citizenship": "US",
    "Age": 15,
    "Address": "Newyork",
    "Voted" : {
        "2018":0,
         "2019": 0,
         "2020": 0
    },
    "results":[
         {
             "declared": "Yes"
    ]
}
    "_id" : ObjectId("5fbdecc763e242e7827e7d32"),
    "Aadharno": 123506,
    "Name": "Sparsh D",
    "MobileNo": 7755922406,
    "Gender": "Male",
    "Citizenship": "Indian",
    "Age": 20,
    "Address": "Mumbai",
    "Voted" : {
         "2018": 0,
         "2019": 1,
         "2020":1
    },
    "results":[
             "declared": "Yes"
    ]
}
    "_id": ObjectId("5fbdecc763e242e7827e7d33"),
    "Aadharno": 123507,
    "Name": "Harshita A",
    "MobileNo": 7755922407,
    "Gender": "Female",
```

```
"Citizenship": "Mexican",
    "Age": 19,
    "Address": "Newyork",
    "Voted": \{
         "2018": 0,
         "2019": 1,
         "2020":1
    },
    "results":[
         {
             "declared": "Yes"
    ]
}
    "_id": ObjectId("5fbdecc763e242e7827e7d34"),
    "Aadharno": 123508,
    "Name": "Bhavika RC",
    "MobileNo": 7755922408,
    "Gender": "Female",
    "Citizenship": "US",
    "Age": 38,
    "Address": "Newyork",
    "Voted" : {
         "2018": 1,
         "2019": 1,
         "2020":1
    },
    "results":[
         {
             "declared": "Yes",
             "Voted":[
                  {
                       "2018": 1,
                       "2020":0
             ]
         }
    ]
}
    "_id": ObjectId("5fbdecc763e242e7827e7d35"),
    "Aadharno": 123509,
    "Name": "Ronak M",
    "MobileNo": 7755922409,
    "Gender": "Male",
    "Citizenship": "Indian",
    "Age": 35,
    "Address": "Pune",
```

```
"Voted" : {
         "2018": 0,
         "2019": 0,
         "2020":0
    },
    "results":[
         {
              "declared": "Yes",
             "Voted" : [
                  {
                       "2019": 1,
                       "2020":1
                  }
             ]
         }
    ]
}
    "_id": ObjectId("5fbdecc763e242e7827e7d36"),
    "Aadharno": 123510,
    "Name": "Aditi LL",
    "MobileNo": 7755922410,
    "Gender": "Female",
    "Citizenship": "US",
    "Age": 48,
    "Address": "Pune",
    "Voted" : {
         "2018":0,
         "2019": 1,
         "2020":1
    },
    "results":[
         {
              "declared": "Yes",
              "Voted" : [
                  {
                       "2018": 0,
                       "2019":0
                  }
             ]
         }
    ]
}
    "_id": ObjectId("5fbdecc763e242e7827e7d37"),
    "Aadharno": 123511,
    "Name": "Ayush Shah",
    "MobileNo": 7755922411,
    "Gender": "Male",
```

```
"Citizenship": "US",
    "Age": 41,
    "Address" : "India",
    "Voted" : {
         "2018": 1,
         "2019": 0,
         "2020":1
    },
    "results":[
         {
              "declared": "Yes",
              "Voted" : [
                  {
                       "2018": 1,
                       "2019":1
                  }
             ]
         }
    ]
}
{
    "_id": ObjectId("5fbdecc763e242e7827e7d38"),
    "Aadharno": 123512,
    "Name": "Karandeep H",
    "MobileNo": 7755922412,
    "Gender": "Male",
    "Citizenship": "US",
    "Age": 63,
    "Address" : "Mumbai",
    "Voted": {
         "2018": 0,
         "2019": 0,
         "2020":0
    },
    "results":[
         {
              "declared": "Yes",
              "Voted" : [
                  {
                       "2018": 0,
                       "2019":0
                  }
             ]
         }
    ]
}
    "_id": ObjectId("5fbdecc763e242e7827e7d39"),
    "Aadharno": 123513,
```

```
"Name": "Bhumika VC",
    "MobileNo": 7755922413,
    "Gender": "Female",
    "Citizenship": "US",
    "Age": 65,
    "Address": "Pune",
    "Voted" : {
         "2018":0,
         "2019": 1,
         "2020":1
    },
    "results":[
         {
              "declared": "Yes",
              "Voted" : [
                  {
                       "2018": 1,
                       "2019":0
             ]
         }
    ]
}
> -- ALL QUERY
uncaught exception: SyntaxError: unexpected token: identifier:
@(shell):1:7
> db.Aadhar.find({"results.Voted":{$all:[{"$elemMatch":{2018:1}}]}}).pretty()
{
    "_id": ObjectId("5fbdeb350832a5230031a534"),
    "Aadharno": 123508,
    "Name": "Bhavika RC",
    "MobileNo": 7755922408,
    "Gender": "Female",
    "Citizenship": "US",
    "Age": 38,
    "Address": "Newyork",
    "Voted" : {
         "2018": 1,
         "2019": 1,
         "2020":1
    },
    "results":[
              "declared": "Yes",
              "Voted" : [
                  {
```

```
"2018": 1,
                       "2020":0
                  }
             ]
        }
    ]
}
{
    "_id": ObjectId("5fbdeb350832a5230031a537"),
    "Aadharno": 123511,
    "Name": "Ayush Shah",
    "MobileNo": 7755922411,
    "Gender": "Male",
    "Citizenship": "US",
    "Age": 41,
    "Address": "India",
    "Voted" : {
         "2018": 1,
         "2019": 0,
         "2020":1
    },
    "results":[
         {
             "declared": "Yes",
             "Voted" : [
                  {
                       "2018": 1,
                       "2019":1
                  }
             ]
         }
    ]
}
{
    "_id": ObjectId("5fbdeb350832a5230031a539"),
    "Aadharno": 123513,
    "Name": "Bhumika VC",
    "MobileNo": 7755922413,
    "Gender": "Female",
    "Citizenship": "US",
    "Age": 65,
    "Address": "Pune",
    "Voted" : {
         "2018": 0,
         "2019": 1,
         "2020":1
    },
    "results":[
         {
```

```
"declared": "Yes",
              "Voted" : [
                   {
                       "2018": 1,
                       "2019":0
              ]
         }
    ]
}
> ### USING SLICE
uncaught exception: SyntaxError: illegal character:
@(shell):1:0
> db.Aadhar.find({},{name:1,"results.Voted":{$slice:1}}).pretty()
    "_id": ObjectId("5fbdeb350832a5230031a526"),
    "results":[
         {
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a527"),
     "results":[
         {
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a528"),
     "results":[
         {
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a529"),
    "results":[
         {
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a52a"),
    "results":[
```

```
{
}
    "_id": ObjectId("5fbdeb350832a5230031a52b"),
    "results":[
         {
         }
    ]
}
{
    "_id": ObjectId("5fbdeb350832a5230031a52c"),
    "results":[
         {
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a52d"),
    "results" : [
         {
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a52e"),
    "results" : [
         {
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a52f"),
    "results":[
         {
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a530"),
    "results":[
         {
```

```
}
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a531"),
    "results":[
         {
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a532"),
    "results":[
         {
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a533"),
    "results":[
         {
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a534"),
    "results":[
         {
              "Voted" : [
                       "2018": 1,
                       "2020":0
         }
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a535"),
    "results" : [
         {
              "Voted":[
                  {
                       "2019": 1,
                       "2020":1
```

```
}
              ]
         }
    ]
}
{
     "_id": ObjectId("5fbdeb350832a5230031a536"),
    "results":[
          {
              "Voted" : [
                   {
                        "2018": 0,
                        "2019":0
              ]
         }
    ]
}
{
    "_id": ObjectId("5fbdeb350832a5230031a537"),
    "results":[
          {
              "Voted" : [
                   {
                        "2018": 1,
                        "2019":1
                   }
              ]
         }
    ]
}
{
    "_id": ObjectId("5fbdeb350832a5230031a538"),
    "results":[
          {
              "Voted" : [
                        "2018": 0,
                        "2019":0
              ]
         }
    ]
}
     "_id" : ObjectId("5fbdeb350832a5230031a539"),
    "results":[
          {
              "Voted" : [
```

```
{
                       "2018": 1,
                       "2019":0
                   }
             ]
         }
    ]
}
> db.Aadhar.find({"results.Voted":{$size:2}}).pretty()
> db.Aadhar.find({"results.Voted":{$size:1}}).pretty()
    "_id": ObjectId("5fbdeb350832a5230031a534"),
    "Aadharno": 123508,
    "Name": "Bhavika RC",
    "MobileNo": 7755922408,
    "Gender": "Female",
    "Citizenship": "US",
    "Age": 38,
    "Address": "Newyork",
    "Voted" : {
         "2018": 1,
         "2019": 1,
         "2020":1
    },
    "results":[
         {
              "declared": "Yes",
              "Voted" : [
                   {
                       "2018": 1,
                       "2020":0
              ]
         }
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a535"),
    "Aadharno": 123509,
    "Name": "Ronak M",
    "MobileNo": 7755922409,
    "Gender": "Male",
    "Citizenship": "Indian",
    "Age": 35,
    "Address": "Pune",
    "Voted" : {
         "2018": 0,
         "2019":0,
         "2020":0
```

```
},
    "results":[
             "declared": "Yes",
             "Voted" : [
                  {
                       "2019": 1,
                       "2020":1
             ]
         }
    ]
}
{
    "_id": ObjectId("5fbdeb350832a5230031a536"),
    "Aadharno": 123510,
    "Name": "Aditi LL",
    "MobileNo": 7755922410,
    "Gender": "Female",
    "Citizenship": "US",
    "Age": 48,
    "Address": "Pune",
    "Voted" : {
         "2018":0,
         "2019": 1,
         "2020":1
    },
    "results":[
         {
              "declared": "Yes",
              "Voted" : [
                  {
                       "2018": 0,
                       "2019":0
             ]
         }
    ]
}
{
    "_id": ObjectId("5fbdeb350832a5230031a537"),
    "Aadharno": 123511,
    "Name": "Ayush Shah",
    "MobileNo": 7755922411,
    "Gender": "Male",
    "Citizenship": "US",
    "Age": 41,
    "Address": "India",
    "Voted" : {
```

```
"2018": 1,
         "2019": 0,
         "2020":1
    },
    "results":[
         {
             "declared": "Yes",
             "Voted" : [
                  {
                       "2018": 1,
                       "2019":1
             ]
        }
    ]
}
{
    "_id": ObjectId("5fbdeb350832a5230031a538"),
    "Aadharno": 123512,
    "Name": "Karandeep H",
    "MobileNo": 7755922412,
    "Gender": "Male",
    "Citizenship": "US",
    "Age": 63,
    "Address": "Mumbai",
    "Voted" : {
         "2018": 0,
         "2019": 0,
         "2020":0
    },
    "results":[
         {
             "declared": "Yes",
             "Voted" : [
                  {
                       "2018": 0,
                       "2019":0
             ]
        }
    1
}
    "_id": ObjectId("5fbdeb350832a5230031a539"),
    "Aadharno": 123513,
    "Name": "Bhumika VC",
    "MobileNo": 7755922413,
    "Gender" : "Female",
    "Citizenship": "US",
```

```
"Age": 65,
    "Address": "Pune",
    "Voted" : {
         "2018": 0,
         "2019": 1,
         "2020":1
    },
    "results":[
         {
             "declared": "Yes",
             "Voted" : [
                  {
                       "2018": 1,
                       "2019":0
                  }
         }
    ]
> #### USING LOGICAL OPERATOR
uncaught exception: SyntaxError: illegal character:
@(shell):1:0
> db.Aadhar.find({$or:[{name:"Bhumika VC"},{Gender:"Female"}]}).pretty()
    "_id": ObjectId("5fbdeb350832a5230031a52b"),
    "Aadharno": 123465,
    "Name": "Tanvi MD",
    "MobileNo": 7755922214,
    "Gender": "Female",
    "Citizenship": "US",
    "Age": 43,
    "Address": "Newyork",
    "Voted" : {
         "2018": 0,
         "2019": 0,
         "2020":1
    },
    "results":[
             "declared": "Yes"
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a531"),
    "Aadharno": 123505,
    "Name": "Shreya LM",
    "MobileNo": 7755922404,
    "Gender": "Female",
```

```
"Citizenship": "US",
    "Age": 15,
    "Address": "Newyork",
    "Voted": \{
         "2018": 0,
         "2019": 0,
         "2020":0
    },
    "results":[
         {
             "declared": "Yes"
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a533"),
    "Aadharno": 123507,
    "Name": "Harshita A",
    "MobileNo": 7755922407,
    "Gender": "Female",
    "Citizenship": "Mexican",
    "Age": 19,
    "Address": "Newyork",
    "Voted" : {
         "2018": 0,
         "2019": 1,
         "2020":1
    },
    "results":[
         {
             "declared": "Yes"
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a534"),
    "Aadharno": 123508,
    "Name": "Bhavika RC",
    "MobileNo": 7755922408,
    "Gender": "Female",
    "Citizenship": "US",
    "Age": 38,
    "Address": "Newyork",
    "Voted" : {
         "2018": 1,
         "2019": 1,
         "2020":1
    },
    "results":[
```

```
{
             "declared": "Yes",
             "Voted" : [
                  {
                       "2018": 1,
                       "2020":0
             ]
         }
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a536"),
    "Aadharno": 123510,
    "Name": "Aditi LL",
    "MobileNo": 7755922410,
    "Gender": "Female",
    "Citizenship": "US",
    "Age": 48,
    "Address": "Pune",
    "Voted" : {
         "2018": 0,
         "2019": 1,
         "2020":1
    },
    "results":[
         {
             "declared": "Yes",
             "Voted" : [
                  {
                       "2018": 0,
                       "2019":0
             ]
         }
    ]
}
    "_id": ObjectId("5fbdeb350832a5230031a539"),
    "Aadharno": 123513,
    "Name": "Bhumika VC",
    "MobileNo": 7755922413,
    "Gender": "Female",
    "Citizenship": "US",
    "Age": 65,
    "Address": "Pune",
    "Voted" : {
         "2018": 0,
         "2019": 1,
```

```
"2020":1
    },
    "results":[
         {
              "declared": "Yes",
              "Voted" : [
                  {
                       "2018": 1,
                       "2019":0
                  }
             ]
         }
    1
}
> ### USING UNWIND
uncaught exception: SyntaxError: illegal character:
@(shell):1:0
> db.Aadhar.aggregate({$unwind:"$results"}).pretty()
{
    "_id": ObjectId("5fbdeb350832a5230031a526"),
    "Aadharno" : 123456,
    "Name": "Prathamesh KS",
    "MobileNo": 7755922895,
    "Gender": "Male",
    "Citizenship": "Indian",
    "Age": 20,
    "Address": "Pune",
    "Voted" : {
         "2018":0,
         "2019": 0,
         "2020":1
    },
    "results": {
         "declared": "Yes"
    }
}
    "_id": ObjectId("5fbdeb350832a5230031a527"),
    "Aadharno": 123459,
    "Name": "Sooraj VS",
    "MobileNo": 7755922894,
    "Gender": "Male",
    "Citizenship": "Indian",
    "Age": 21,
    "Address": "Mumbai",
    "Voted" : {
         "2018": 1,
         "2019": 0,
         "2020":1
```

```
},
    "results": {
         "declared": "Yes"
    }
}
    "_id": ObjectId("5fbdeb350832a5230031a528"),
    "Aadharno": 133455,
    "Name": "Aditya Somani",
    "MobileNo": 7755922893,
    "Gender": "Male",
    "Citizenship": "Indian",
    "Age": 31,
    "Address": "Mumbai",
    "Voted": {
         "2018": 1,
         "2019": 1,
         "2020":1
    },
    "results": {
         "declared": "Yes"
    }
}
{
    "_id": ObjectId("5fbdeb350832a5230031a529"),
    "Aadharno": 125455,
    "Name": "Utkarsh Gurav",
    "MobileNo": 7755922892,
    "Gender": "Male",
    "Citizenship": "Indian",
    "Age": 98,
    "Address": "Nashik",
    "Voted" : {
         "2018": 0,
         "2019": 0,
         "2020": 0
    },
    "results": {
         "declared": "Yes"
    }
}
    "_id": ObjectId("5fbdeb350832a5230031a52a"),
    "Aadharno": 126451,
    "Name": "Henry VS",
    "MobileNo": 7755922824,
    "Gender": "Male",
    "Citizenship": "US",
    "Age": 21,
```

```
"Address": "Mumbai",
    "Voted" : {
         "2018": 1,
         "2019": 0,
         "2020":1
    },
    "results": {
         "declared": "Yes"
    }
}
{
    "_id": ObjectId("5fbdeb350832a5230031a52b"),
    "Aadharno": 123465,
    "Name": "Tanvi MD",
    "MobileNo": 7755922214,
    "Gender": "Female",
    "Citizenship": "US",
    "Age": 43,
    "Address": "Newyork",
    "Voted" : {
         "2018": 0,
         "2019": 0,
         "2020":1
    },
    "results": {
         "declared": "Yes"
    }
}
    "_id": ObjectId("5fbdeb350832a5230031a52c"),
    "Aadharno": 123500,
    "Name": "Aakash MD",
    "MobileNo": 7722922214,
    "Gender": "Male",
    "Citizenship": "US",
    "Age": 34,
    "Address": "Newyork",
    "Voted": {
         "2018": 0,
         "2019": 0,
         "2020":1
    },
    "results": {
         "declared": "Yes"
    }
}
    "_id": ObjectId("5fbdeb350832a5230031a52d"),
    "Aadharno": 123501,
```

```
"Name": "Rajas S",
    "MobileNo": 775592215,
    "Gender": "Male",
    "Citizenship": "US",
    "Age": 23,
    "Address": "London",
    "Voted" : {
         "2018": 0,
         "2019": 1,
         "2020":1
    },
    "results": {
         "declared": "Yes"
    }
}
    "_id": ObjectId("5fbdeb350832a5230031a52e"),
    "Aadharno": 123502,
    "Name": "Shreyas MD",
    "MobileNo": 2255922216,
    "Gender": "Male",
    "Citizenship": "US",
    "Age": 12,
    "Address": "Indian",
    "Voted": {
         "2018": 1,
         "2019": 0,
         "2020":1
    },
    "results": {
         "declared": "Yes"
    }
}
    "_id": ObjectId("5fbdeb350832a5230031a52f"),
    "Aadharno": 123503,
    "Name": "Chetan LK",
    "MobileNo": 7755922219,
    "Gender": "Male",
    "Citizenship": "Indian",
    "Age": 22,
    "Address": "Indian",
    "Voted" : {
         "2018": 1,
         "2019": 1,
         "2020":1
    },
    "results": {
         "declared": "Yes"
```

```
}
}
    "_id": ObjectId("5fbdeb350832a5230031a530"),
    "Aadharno": 123504,
    "Name": "Hritik S",
    "MobileNo": 7755922405,
    "Gender": "Male",
    "Citizenship": "Indian",
    "Age": 22,
    "Address": "Pune",
    "Voted": {
         "2018": 1,
         "2019": 1,
         "2020":1
    },
    "results": {
         "declared": "Yes"
    }
}
{
    "_id": ObjectId("5fbdeb350832a5230031a531"),
    "Aadharno": 123505,
    "Name": "Shreya LM",
    "MobileNo": 7755922404,
    "Gender": "Female",
    "Citizenship": "US",
    "Age": 15,
    "Address": "Newyork",
    "Voted": {
         "2018": 0,
         "2019": 0,
         "2020":0
    },
    "results": {
         "declared": "Yes"
    }
}
    "_id": ObjectId("5fbdeb350832a5230031a532"),
    "Aadharno": 123506,
    "Name": "Sparsh D",
    "MobileNo": 7755922406,
    "Gender": "Male",
    "Citizenship": "Indian",
    "Age": 20,
    "Address": "Mumbai",
    "Voted" : {
         "2018": 0,
```

```
"2019": 1,
         "2020":1
    },
    "results": {
         "declared": "Yes"
    }
}
{
    "_id": ObjectId("5fbdeb350832a5230031a533"),
    "Aadharno": 123507,
    "Name": "Harshita A",
    "MobileNo": 7755922407,
    "Gender": "Female",
    "Citizenship": "Mexican",
    "Age": 19,
    "Address": "Newyork",
    "Voted" : {
         "2018": 0,
         "2019": 1,
         "2020":1
    },
    "results": {
         "declared": "Yes"
    }
}
{
    "_id": ObjectId("5fbdeb350832a5230031a534"),
    "Aadharno": 123508,
    "Name": "Bhavika RC",
    "MobileNo": 7755922408,
    "Gender": "Female",
    "Citizenship": "US",
    "Age": 38,
    "Address": "Newyork",
    "Voted": {
         "2018": 1,
         "2019": 1,
         "2020":1
    },
    "results": {
         "declared": "Yes",
         "Voted" : [
             {
                  "2018": 1,
                  "2020": 0
         ]
    }
}
```

```
{
    "_id": ObjectId("5fbdeb350832a5230031a535"),
    "Aadharno": 123509,
    "Name": "Ronak M",
    "MobileNo": 7755922409,
    "Gender": "Male",
    "Citizenship": "Indian",
    "Age": 35,
    "Address": "Pune",
    "Voted" : {
         "2018": 0,
         "2019": 0,
         "2020":0
    },
    "results": {
         "declared": "Yes",
         "Voted" : [
              {
                  "2019": 1,
                  "2020":1
              }
         ]
    }
}
    "_id": ObjectId("5fbdeb350832a5230031a536"),
    "Aadharno": 123510,
    "Name": "Aditi LL",
    "MobileNo": 7755922410,
    "Gender": "Female",
    "Citizenship": "US",
    "Age": 48,
    "Address": "Pune",
    "Voted" : {
         "2018": 0,
         "2019": 1,
         "2020":1
    },
    "results": {
         "declared": "Yes",
         "Voted" : [
              {
                  "2018": 0,
                  "2019":0
              }
         ]
    }
}
{
```

```
"_id": ObjectId("5fbdeb350832a5230031a537"),
    "Aadharno": 123511,
    "Name": "Ayush Shah",
    "MobileNo": 7755922411,
    "Gender": "Male",
    "Citizenship": "US",
    "Age": 41,
    "Address": "India",
    "Voted": {
         "2018": 1,
         "2019": 0,
         "2020":1
    },
    "results": {
         "declared": "Yes",
         "Voted" : [
              {
                  "2018": 1,
                  "2019":1
              }
         ]
    }
}
{
    "_id" : ObjectId("5fbdeb350832a5230031a538"),
    "Aadharno": 123512,
    "Name": "Karandeep H",
    "MobileNo": 7755922412,
    "Gender": "Male",
    "Citizenship": "US",
    "Age": 63,
    "Address": "Mumbai",
    "Voted" : {
         "2018":0,
         "2019": 0,
         "2020": 0
    },
    "results": {
         "declared": "Yes",
         "Voted" : [
              {
                  "2018":0,
                  "2019":0
              }
         ]
    }
}
    "_id": ObjectId("5fbdeb350832a5230031a539"),
```

```
"Aadharno": 123513,
    "Name" : "Bhumika VC",
    "MobileNo" : 7755922413,
    "Gender": "Female",
    "Citizenship": "US",
    "Age" : 65,
    "Address": "Pune",
    "Voted" : {
         "2018": 0,
         "2019": 1,
         "2020":1
    },
    "results": {
         "declared" : "Yes",
         "Voted" : [
             {
                  "2018":1,
                  "2019":0
              }
        ]
    }
}
```